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RECEIVERS

ADVENT

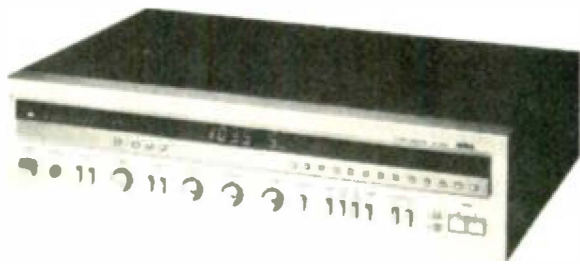
300 FM Stereo Receiver

Combines Holman phono preamp circuit, FM multiplex tuner, and 30-W power amplifier; FM sensitivity 2.5 μ V; frequency response 20-20,000 Hz; power bandwidth 40-20,000 Hz; 15 W/ch continuous at rated output at 0.5% THD; stereo separation 35 dB; S/N 82 dB (phono); capture ratio 1.2 dB; spurious rejection 95 dB; inputs: phono, tape, aux.; controls: volume, balance, bass, treble, loudness, tape monitor, mono/stereo; front-panel headphone jack; black metal enclosure; 3 1/2" H \times 15 7/8" W \times 9" D (plus 1 3/4" for knob clearance)..... \$289

AIWA

AX-7800U Stereo Receiver

Power amp: features nine-LED power indicator display (switchable signal-strength function) and two-speaker switching; 60 W/ch continuous, both chan-



nels driven into 8 ohms from 20-20,000 Hz with 0.7% THD; damping factor 35 at 8 ohms from 20-20,000 Hz. Preamp: features bass and treble controls with turnover frequency switches; balance control; loudness switch; tape/source monitor switch; input selector with LEDs; frequency response \pm 0.5 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz \pm 1 dB (aux. and tape); S/N 80 dB (phono), 95 dB (aux. and tape). Tuner: features sensor-touch up/down FM tuning with hold scan and stop and LED frequency readout display; six-station memory preset with channel readout; nine-LED signal-strength display; mode and muting switches; auto/manual switch; AM/FM selector; FM IHF usable sensitivity 10.8 dBf (mono); 50-dB quieting 17.2 dBf (mono), 37.2 dBf (stereo); S/N 75 dB (mono), 70 dB (stereo); dist. 0.1% (mono), 0.2% (stereo); alternate channel selectivity 75 dB \pm 400 kHz; stereo separation 45 dB at 1000 Hz; AM usable sensitivity 250 μ V/m (ferrite antenna), 25 μ V (external antenna); AM S/N 50 dB; 4 1/4" H \times 20 1/8" W \times 17 3/8" D..... \$590

AX-7700U Stereo Receiver

Power amp: features five-LED peak power indicator display and two-speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.1% THD; frequency response 20-30,000 Hz \pm 1 dB; damping factor 30 at 8 ohms from 20-20,000 Hz. Preamp: features bass and treble controls; hi filter; balance control; loudness switch; tape/source monitor switch; input selector; S/N 72 dB (phono), 90 dB (aux. and tape). Tuner: features five-LED signal-strength and three-LED tuning indicators; mode and muting switches;

FM IHF usable sensitivity 11.2 dBf; 50-dB quieting 17.2 dBf (mono), 38.1 dBf (stereo); S/N 73 dB (mono), 68 dB (stereo); IHF dist. 0.25% (mono), 0.4% (stereo); alternate channel selectivity 65 dB \pm 400 kHz; stereo separation 38 dB at 1000 Hz; AM usable sensitivity 250 μ V/m (ferrite antenna), 25 μ V (external antenna); S/N 50 dB. 4 1/4" H \times 17 3/8" W \times 15 3/8" D..... \$300

AX-7300U. Similar to AX-7700U minus power output meter display and high filter; 25 W/ch continuous under same conditions; FM tuner S/N 70 dB (mono), 65 dB (stereo); FM separation 30 dB at 1000 Hz; 6 1/8" H \times 16 7/8" W \times 15 1/8" D... \$210

AKAI

AA-R50 Stereo Receiver

Features dc amplifier with dual LED bar graph power meters with range selector; bass, midrange, and treble controls; tape 1 and 2 and dub 1-to-2 monitor selectors; A-B speaker switching; high and low filter selectors; FM Dolby de-emphasis and FM mute selectors; illuminated signal strength and tuning meters; AM, FM, phono, and aux. input selectors; balance control; loudness selectors. Amp: output 62 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.04% THD. FM tuner: IHF sensitivity 1.8 μ V; IHF selectivity 70 dB. Walnut grain vinyl cover with silver panel; 5.9" H \times 18.9" W \times 14.2" D..... \$450

AA-R40. Similar to AA-R50 minus midrange control and high and low filter selectors; power output 50 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.04% THD..... \$400

AA-R30 Stereo Receiver

Features LED bar graph power indicator with range selector; tape 1 and 2 and dub 1-to-2 monitor switches; A-B speaker switching; AM, FM, phono, and aux. input selectors; bass and treble controls; balance control; loudness selectors; FM Dolby de-emphasis and FM mute selectors; signal strength and tuning meters. Amplifier output: 38 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.05% THD. FM tuner: IHF sensitivity 1.8 μ V; IHF selectivity 60 dB. 5.6" H \times 17.3" W \times 12.2" D..... \$300

AA-R20. Similar to AA-R30 without FM mute selector; power output 26 W/ch; FM tuner sensitivity 1.9 μ V (IHF)..... \$250

AUDIO PRO by INTERSEARCH

TA-150 Stereo Receiver

Computer-controlled AM-FM stereo receiver with interlock, memory, and logic functions performed by



micro-computer. Features one adjustable control knob for volume, balance, treble, midrange, bass, tuning, presetting of stations, and setting of digital

clock with selector buttons and optical readout. Power amp features double complementary differential input stage; 70 W/ch continuous, both channels driven into 8 ohms at 0.1% THD, 90 W/ch continuous, both channels driven into 4 ohms at 0.1% THD; frequency response 10-100,000 Hz \pm 0/-3 dB; slew factor 30; S/N 90 dB; dynamic headroom 1 dB at 8 ohms. Preamp: features low and high filters, bass, midrange, and treble tone controls \pm 16 dB range, linear bypass and loudness controls, and two-deck tape monitoring, all with LEDs; input sensitivity/impedance 1.9 mV/47k ohms (phono 1), 110 mV/44k ohms (tape and aux.); phono overload 150 mV; frequency response \pm 0.5 dB from 20-20,000 Hz (phono RIAA), 16-200,000 Hz \pm 0/-3 dB (tape and aux.); S/N 70 dB (phono), 80 dB (tape and aux.); THD 0.1%. Tuner features J-FET input and four-ganged tuning capacitor; 16-LED signal-strength bar display, center-tuning LEDs, five-station FM and two station AM preset, LEC digital frequency/clock display, and FM muting; sensitivity 11 dBf (mono); 50-dB quieting sensitivity 15 dBf (mono), 30 dBf (stereo); capture ratio 1.2 dB max.; i-f response -55 dB; AM rejection 55 dB; selectivity 75 dB; stereo separation 40 dB at 1000 Hz; frequency response 30-15,000 Hz \pm 1.5 dB (mono and stereo); 75- and 300-ohm antenna connectors. Additional features include solid-state switches; full-printed circuitry; mechanical operator controls. 4 1/2" H \times 19 1/2" W \times 10 1/4" D..... \$1135

TPA-150. TA-150 without power amplifier..... \$995

BANG & OLUFSEN

Beomaster 4400 FM Receiver

FM stereo receiver. Amp section: features dual power supplies, Bessel filter (designed to eliminate TID), and dc voltage overload protective relay with LED in power amp; bass and treble tone controls designed around active filter circuits; linear control; balance control; two-speaker handling; two-deck tape monitoring; low and high filters. 70 W/ch continuous into 4 ohms; frequency response 20-20,000 Hz; max. THD 0.1%; IM dist. 0.1%; input sensitivity/impedance 2.2 mV/47,000 ohms (phono), 200 mV/470,000 ohms (tape); S/N (linear) 60 dB (phono), 65 dB (tape). Tuner section: features dual FETs in front end and i-f section with ceramic filters, double-tuned quadrature detector, and PLL stereo decoder; six-station FM preset; slidebar tuning; sensitivity for 50 dB quieting 18 dBf (mono), 38 dBf (stereo); THD at 50 dB quieting 1% max. (stereo, 6 kHz); S/N at 65 dBf 70 dB (mono), 67 dB (stereo); capture ratio 4 dB (mono); AM suppression 50 dB (mono); selectivity 1 dB (mono, adj. channel), 58 dB (mono, alternate channel); image response -69 dB (mono); i-f response -85 dB (mono). 117-V ac, 50-60 Hz, 30-310 W; 3 3/4" H \times 22 3/8" W \times 11" D..... \$850

Beomaster 2400 FM Receiver

Low-slung design with no visible knobs; electronic touch-control switching; preset FM station capability; wireless remote control. Amplifier section: 30 W/ch continuous power into 4 ohms from 20-20,000 Hz at 0.2% THD; IM dist. 0.15%;

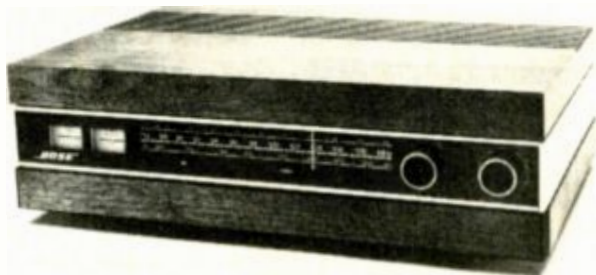
1 RECEIVERS

phono sensitivity 3 mV; S/N better than 60 dB phono, 65 dB tape; stereo separation 56 dB at 1 kHz, 38 dB from 250-10,000 Hz. Tuner section: usable sensitivity 19.2 dBf (5.0 μ V) mono; 50-dB quieting sensitivity 38.9 dBf (47 μ V) stereo, 18.5 dBf (4.6 μ V) mono; S/N 70 dB mono, 66 dB stereo at 65 dBf; frequency response 30-15,000 Hz \pm 1.5 dB; THD at 50-dB quieting 1.0% or less; IM distortion 0.5% mono, 0.6% stereo; capture ratio 4.5 dB mono; alternate channel selectivity 58 dB; AM suppression rejection 87 dB; subcarrier suppression 45 dB at 19 kHz, 50 dB at 38 kHz; stereo separation 35 dB at 1 kHz, 29 dB at 100 Hz, 24 dB at 10 kHz. Front panel touch switches control two volume (with illuminated volume direction increase/decrease as volume does same), phono/tape selection and up to five preset FM stations with illuminated display; functions duplicated (except only four preset stations) on optional wireless remote. Additional controls under hinged top panel include main tuning dial, afc switch, bass, treble and balance controls; "volume memory" presets volume level when unit is turned on. 2 $\frac{1}{2}$ " H \times 24 $\frac{1}{4}$ " W \times 9 $\frac{3}{4}$ " D. \$650
Beomaster 1900. 2400 less remote control unit \$550

BOSE

Spatial Control™ Receiver

Combines four bridged power amplifiers (or two stereo pairs), preamplifier, equalizer, compensation circuitry and two headphone amplifiers; designed to



enable listener to widen or narrow spatial sound image according to program material played. Power amp: features four direct-coupled power amplifiers; complete protection circuitry; two-speaker switching; 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.09% THD and IM dist.; power bandwidth 20-20,000 Hz; S/N (A weighted) 90 dB (inputs shorted). Preamp: features automatic CMOS switching logic gain and equalization controls through rear-panel programming of number and types of speakers being used with LED indicator (Bose 901 Speaker System designed to complement Spatial Control™ Receiver); \pm low- and high-frequency slide controls with wide/narrow low-frequency range selector, source and room compensation selector, and low filter; balance slide control; narrow/wide spatial slide control with in/out selection and LED indicator; two-deck tape monitoring; input selectors with LEDs; input sensitivity/impedance 2.0 mV/47k ohms (phono), 200 mV/50k ohms (aux. and tape); frequency response \pm 0.3 dB (phono RIAA), 20-20,000 Hz +0.1/-0.5 dB (tape and aux.); S/N (A weighted) 83 dB (phono, inputs shorted); phono overload 145 mV. FM tuner: MOS FET front end; PLL multiplex stereo decoder; FM muting; mode selector with LED; loudness switch; signal-strength and FM tuning meters; IHF usable sensitivity 1.9 μ V (mono), 3.3 μ V (stereo); 50-dB quieting 3.5 μ V (mono), 35 μ V (stereo); S/N 70 dB (mono), 65 dB (stereo); frequency response 30-15,000 Hz +0.2/-1.0 dB; THD 1.0% (mono), 0.25% (stereo); capture ratio 1.8 dB; alternate channel selectivity 70 dB; image rejection 80 dB; spurious rejection 100 dB; stereo separation 45 dB at 1000 Hz. AM 20-dB usable sensitivity 250 μ V/m (ferrite antenna), 25 μ V (external antenna); S/N 45 dB. Oiled walnut cabinet with all controls, except volume and tuning controls plus lighted me-

ters and tuning dial, behind bottom front panel; 6 $\frac{3}{8}$ " H \times 20 $\frac{1}{2}$ " W \times 16 $\frac{3}{8}$ " D. \$799

550 Stereo Receiver

Features source and room compensation controls. Power amp: features dc circuitry; two-speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.3% THD and 0.09% IM dist.; power bandwidth 20-20,000 Hz; S/N 87 dB (A weighted). Preamp: features equalizer with low and high frequency slide controls, wide/narrow low-frequency switch, and low filter switch; balance slide control; tape monitor switch; input selector; input sensitivity/impedance 2.75 mV/47k ohms (phono), 150 mV/50k ohms (aux. and tape); S/N (A weighted) 76 dB (phono); frequency response \pm 0.5 dB (phono RIAA), 20-20,000 Hz +0.5 dB (aux. and tape); phono overload 100 mV at 1000 Hz, 1.0% THD. FM tuner: features mode switch, FM muting, and loudness switch; signal-strength and tuning meters; IHF usable sensitivity 2.0 μ V (mono), 3.5 μ V (stereo); 50-dB quieting 3.8 μ V (mono), 40 μ V (stereo); S/N 65 dB (mono), 60 dB (stereo); frequency response 30-15,000 Hz +1/-3 dB; THD 0.25% (mono), 0.5% (stereo); capture ratio 1.9 dB; alternate channel selectivity 60 dB; image rejection 65 dB; spurious rejection 80 dB; stereo separation 40 dB at 1000 Hz. AM 20-dB usable sensitivity 350 μ V/m (ferrite antenna), 50 μ V (external antenna); S/N 40 dB. Oiled walnut cabinet; 5 $\frac{3}{4}$ " H \times 18 $\frac{1}{4}$ " W \times 12 $\frac{1}{4}$ " D. \$349

CALIBRE

240 Stereo Receiver

AM-FM stereo receiver with FM Dolby circuitry. Power amp: features two-speaker switching; 42 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist. Preamp: features bass and treble controls; balance control; two-way tape dubbing and monitoring; high filter; mute, mono, and loudness switches; phono S/N 80 dB (A weighted); phono overload 210 mV. Tuner: features three-LED signal-strength and FM tuning indicator display; FM IHF usable sensitivity 1.9 μ V (mono), 2.5 μ V (stereo); 50-dB quieting 2.8 μ V (mono), 39.8 μ V (stereo); THD at 1000 Hz 0.1%; S/N 72 dB; capture ratio 1.5 dB; alternate channel selectivity 66 dB. \$375
225. Similar to 240 without Dolby noise-reduction circuitry; 26 W/ch continuous under same conditions; FM alternate channel selectivity 60 dB. \$280
215. Similar to 225 minus tape dubbing and LED signal-strength display; 16 W/ch under same conditions; FM S/N 68 dB. \$230

CONCEPT

12.0D FM Stereo Receiver

Amplifier section: 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD and IM dist.; S/N (A weighted) 80 dB (phono); phono overload 220 mV. FM tuner section: IHF usable sensitivity 1.7 μ V (mono), 3 μ V (stereo); 50-dB quieting 2.7 μ V (mono), 36 μ V (stereo); S/N 72 dB (mono), 74 dB (stereo); THD 0.1% at 1000 Hz; capture ratio 0.8 dB; alternate channel selectivity 85 dB. \$900

7.5D Stereo Receiver

Amplifier: 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; S/N 80 dB (phono, A weighted); phono overload 220 mV. FM tuner: IHF usable sensitivity 1.7 μ V (mono), 4.5 μ V (stereo); 50-dB quieting 2.7 μ V (mono), 36 μ V (stereo); THD 0.1%; S/N 70 dB (mono), 72 dB (stereo); capture ratio 1 dB; alternate channel selectivity 80 dB. \$620

4.5D Stereo Receiver

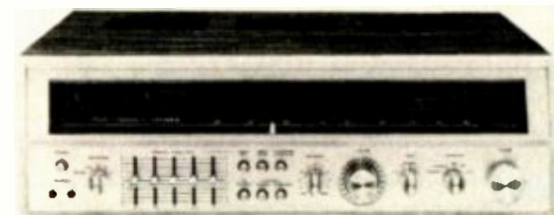
Amplifier: 45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; S/N 78 dB (phono, A weighted); phono overload 220 mV. FM tuner section: IHF usable sensitivity 1.8 μ V (mono), 6 μ V (stereo); 50-dB quieting 2.8 μ V (mono), 38 μ V (stereo); THD 0.1%;

S/N 68 dB (mono), 72 dB (stereo); capture ratio 1.1 dB; alternate channel selectivity 78 dB ... \$490

FISHER

RS2015 Stereo Receiver

Has five-band graphic equalizer. Amplifier section: 150 W/ch continuous power into 8 ohms



(20-20,000 Hz) at 0.05% THD; IM dist. 0.05%; power bandwidth 20-20,000 Hz; frequency response 20-20,000 Hz \pm 0.5 dB; phono sensitivity 2 mV; input impedance 50k ohms phono, 100k ohms others; max. phono input 220 mV; S/N (A-weighted) 78 dB phono, 95 dB others. Tuner section: FM usable sensitivity 9.8 dBf (1.7 μ V); 50-dB quieting sensitivity 13.2 dBf (2.5 μ V) mono, 35.9 dBf (34 μ V) stereo; FM distortion 0.2-0.4% stereo, 0.1-0.3% mono; capture ratio 0.8 dB; selectivity 80 dB; AM suppression 65 dB; i-f rejection 100 dB; image rejection 90 dB; spurious response rejection 100 dB; subcarrier rejection 65 dB; stereo separation 45 dB at 1000 Hz, 40 dB from 100-10,000 Hz. AM section: sensitivity 300 μ V/m; selectivity 40 dB; S/N 55 dB; image rejection 50 dB; i-f rejection 45 dB. Features power-level, signal-strength, and center-channel meters, Dolby de-emphasis (25 μ sec) switch; two tape monitors with one-way dubbing; three speaker outputs; switchable FM muting; loudness; MPX and subsonic filters; calibrated volume control; illuminated function display. \$800
RS2010. Similar to RS2015. 100 W/ch at 0.09% THD; 200 mV max. phono input; S/N 76 dB phono, 90 dB aux. Tuner specs as for RS2015. Features same, but no tape-dub switch. 6 $\frac{1}{16}$ " H \times 20 $\frac{5}{16}$ " W \times 14 $\frac{1}{4}$ " D. \$600
RS2007. Similar to RS2010, but 75 W/ch; max. phono input 180 mV. Tuner: FM usable sensitivity 10.8 dBf (1.9 μ V) mono; 50-dB quieting sensitivity 14.2 dBf (2.8 μ V) mono, 36.8 dBf (38 μ V) stereo; capture ratio 1.0 dB; selectivity 68 dB; S/N 70 dB mono, 66 dB stereo; AM suppression 55 dB; i-f rejection 100 dB; image rejection 56 dB; spurious response rejection 85 dB; subcarrier rejection 65 dB; FM distortion 0.15% mono, 0.2% stereo. Features same, with less elaborate function display, single-phono circuit, and two speaker outputs. \$500

RS2004A. Similar to RS2007 but 45 W/ch at 0.1% THD; IM dist. 0.1%; max. phono input 150 mV. Features same except single tape monitor, no power meters, no filters, no mono mode switch. 5 $\frac{7}{8}$ " H \times 19 $\frac{1}{4}$ " W \times 14 $\frac{7}{8}$ " H. \$400

RS2003 Stereo Receiver

AM-FM stereo receiver with five-band graphic equalizer. Amplifier/equalizer: features two-speaker switching; tape/source monitor switch; volume/balance control; loudness contour switch; input selector with LED function display; equalizer defeat switch; 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; damping factor 40; input sensitivity/impedance 2 mV/50k ohms (phono), 150 mV/100k ohms (tape and aux.); frequency response \pm 0.5 dB from 30-15,000 Hz (phono), 20-20,000 Hz \pm 0.5 dB (aux.); S/N (IHF A) 76 dB (phono), 90 dB (tape and aux.); equalizer center frequencies set at 50, 250, 1000, 4500, and 15,000 Hz, \pm 10 dB boost or cut. Tuner: features signal-strength and center tuning meters; FM muting switch; FM usable sensitivity 1.9 μ V (mono), 4.6 μ V (stereo); 50-dB quieting 2.8 μ V (mono), 38 μ V (stereo); S/N 70 dB (mono), 66 dB (stereo); THD 0.15% (mono), 0.2% (stereo); frequency response 20-15,000 Hz \pm 0.5 dB; capture ratio 1.0 dB; alternate channel selectivity 68 dB \pm 400 kHz; image rejection 56 dB; i-f rejection 100 dB; spurious rejection 85 dB; stereo separation 45 dB at 1000 Hz; AM usable sensitivity

300 μ V/m. 5 $\frac{7}{8}$ " H \times 19 $\frac{1}{4}$ " W \times 14 $\frac{7}{8}$ " D..... \$330
RS2002. Similar to RS2003 without tuning meter; 20 W/ch continuous with 0.09% THD and IM dist.; damping factor 20..... \$250

RS1035A Stereo Receiver

35 W/ch continuous sine wave into 8 ohms from 20-20,000 Hz with 0.2% THD and IM dist. Preamp section: frequency response 30-15,000 Hz \pm 1 dB (phono), 20-20,000 Hz \pm 1 dB (aux.); input sensitivity/impedance 2 mV/50k ohms (phono), 150 mV/100k ohms (tape and aux.); phono overload 110 mV at 1000 Hz, 1% THD; S/N (IHF A) 90 dB (tape, aux.), 75 dB (phono). FM tuner: usable sensitivity 4.6 μ V (stereo); S/N 66 dB (stereo); capture ratio 1.0 dB; alternate channel selectivity 68 dB \pm 400 kHz; image rejection 56 dB; i-f rejection 70 dB; stereo separation 40 dB at 1000 Hz; frequency response 20-15,000 Hz \pm 1.5 dB; AM sensitivity 300 μ V/m; 6 $\frac{1}{8}$ " H \times 19 $\frac{1}{8}$ " W \times 13 $\frac{1}{8}$ " D..... \$280

MC2500 Stereo Receiver

Amplifier section: 18 W/ch continuous power into 8 ohms (60-20,000 Hz) at 1% THD; IM dist. 0.5%; frequency response 20-20,000 Hz \pm 2 dB; phono sensitivity 2 mV (magnetic); 300 mV (ceramic); input impedance 50k ohms mag phono, 500k ohms ceramic phono, 100k ohms tape; mag phono max. input 100 mV; S/N 70 dB phono, 85 dB aux. Tuner section: FM usable sensitivity 14.1 dBf (2.8 μ V); 50-dB quieting sensitivity 19.2 dBf (5.0 μ V) mono, 38.3 dBf (45 μ V) stereo; FM distortion 0.5% stereo, 0.3% mono; capture ratio 1.2 dB; selectivity 50 dB; AM suppression 55 dB; i-f rejection 65 dB; image rejection 56 dB; spurious response rejection 80 dB; subcarrier rejection 45 dB; stereo separation 35 dB at 1kHz, 30 dB at 100 Hz and 10 kHz; antenna 75 or 300 ohms. AM section: sensitivity 300 μ V/m; selectivity 40 dB; S/N 50 dB; image rejection 45 dB; i-f rejection 45 dB. Features dual illuminated tuning meters, high filter, switchable loudness, two speaker outputs, magnetic and ceramic phono inputs. 5 $\frac{1}{16}$ " H \times 20 $\frac{1}{16}$ " W \times 10 $\frac{1}{4}$ " D..... \$200

HARMAN/KARDON

hk670 Stereo Receiver

Features "SMQ" tuning meter (indicates signal-strength, multipath distortion, and quieting); dual tape monitors with two-way dubbing; switchable tone defeat; high and subsonic filters, 25- μ sec de-emphasis; FM muting and loudness; dual power supplies; headphone jack; two speaker output pairs. Amplifier: 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.03% THD and IM dist.; frequency response 2-150,000 Hz \pm 0.5 dB; damping factor 50 into 8 ohms; slew rate 60 V/ μ sec; square wave rise time 2.0 μ sec at 20,000 Hz, tilt less than 5% at 20 Hz; phono sensitivity 2.0 mV; max. input 150 mV; S/N ("A") 90 dB (aux., tape), 85 dB (phono). Tuner section: FM usable sensitivity 10.8 dBf (1.9 μ V) mono; 50-dB quieting sensitivity 14.7 dBf (3.0 μ V) mono, 37.2 dBf (40 μ V) stereo; FM S/N 75 dB; FM dist. 0.5% at 1000 Hz, 80% modulation..... \$569
hk560. Similar to hk670, but 40 W/ch; damping factor 30; frequency response 3-100,000 Hz \pm 0.5 dB. Features similar, but low filter only, no de-emphasis switch, one-way tape dubbing, signal-strength meter only..... \$399
hk450. Similar to hk560, but 30 W/ch at 0.1% THD and IM dist.; frequency response 2-80,000 Hz \pm 0.5 dB; 3.0 μ sec rise time at 20,000 Hz; phono sensitivity 2.7 mV; max. input 75 mV; S/N ("A") 78 dB phono. FM tuner usable sensitivity 11.2 dBf (2.0 μ V) mono; 50-dB quieting sensitivity 16.1 dBf (3.5 μ V) mono; FM S/N 70 dB. Features single tape monitor, no filter, no tone defeat..... \$319
hk340. Similar to hk450, but 20 W/ch at 0.2% THD; square wave rise time 3.5 μ sec at 20,000 Hz. FM tuner usable sensitivity 13.2 dBf (2.5 μ V)

mono; FM S/N 65 dB; FM dist. 0.75%. Features similar, but no mode or muting switches, single speaker output only, no tape monitor..... \$249

HEATH

AR-1515 Stereo Receiver

Features digital readout and signal-strength and center-tune meters; secondary controls concealed behind fold-down front panel. Accepts Dolby FM module. Amplifier: 70 W/ch min. continuous into 8 ohms at 0.08% THD over 20-20,000 Hz; IM dist. less than 0.08% at full power; frequency response 8-45,000 Hz \pm 0/-3 dB. Tuner: input sensitivity 2 mV (mag. phono), 200 mV (aux., tape, and dub); FM sensitivity 1.8 μ V for 30 dB quieting; capture ratio 1.3 dB. 6 $\frac{3}{16}$ " H \times 21 $\frac{1}{2}$ " W \times 15" D
 Kit..... \$600
AD-1504. Dolby FM module (kit)..... \$40

AR-1429 Stereo Receiver

Amplifier: 35 W/ch min. continuous into 8 ohms at less than 0.1% THD over 20-20,000 Hz; IM dist. less than 0.2% at full power; frequency response 5-45,000 Hz \pm 0/-1 dB at 1 W. Tuner: input sensitivity 2 mV (mag. phono), 200 mV (aux., tape, and tape monitor); FM sensitivity 3.5 μ V (16.1 dBf); capture ratio 1.5 dB. Features two tuning meters, stereo indicator, main and remote speaker selection, and headphone jack. 4 $\frac{3}{4}$ " H \times 20" W \times 13 $\frac{1}{2}$ " D.
 Kit..... \$350

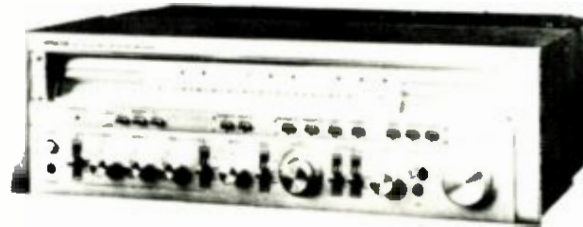
AR-1219 Stereo Receiver

15 W/ch min. continuous into 8 ohms at 0.5% THD over 20-20,000 Hz; frequency response 7-100,000 Hz \pm 1 dB; FM response 20-15,000 Hz \pm 1 dB; channel separation 40 dB typically, 35 dB min.; sensitivity 2 μ V; capture ratio 2 dB; pie-assembled FM tuner section; stereo light; headphone jack; 3 $\frac{7}{8}$ " H \times 17" W \times 13" D.
 Kit..... \$200

HITACHI

SR-2004 Stereo Receiver

Power amp: features combined low- and high-power Class G amplification; dual power output meters;



three-speaker operation with LEDs; 200 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD and IM dist.; power bandwidth 10-40,000 Hz; damping factor 55 at 8 ohms. Preamp: features bass, midrange, and treble controls with switchable bass and treble turnover frequencies and tone defeat; low and high filters; balance control; -20/-40 dB switchable audio muting; two-way tape dubbing and monitoring; mic mixing with level control; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono 1 and 2), 150 mV/50k ohms (aux.), 150 mV/35k ohms (tape 1 and 2), 450 mV/120k ohms (DIN), 3 mV/50k ohms (mic); frequency response \pm 0.2 dB from 30-15,000 Hz (phono RIAA), 10-40,000 Hz \pm 1 dB (aux.); S/N (IHF A) 75 dB (phono), 90 dB (tape and aux.). Tuner: features dual-gate MOS FET and five-ganged linear frequency capacitors in front end; PLL ICs in FM multiplex circuit; FM mute/auto lock; wide/narrow i-f bandwidth selector; multipath switch; signal-strength and tuning meters; mode, loudness, and adaptor switches; FM usable sensitivity 1.5 μ V (mono), 15 dBf (stereo); 50-dB quieting 12.5 dBf (mono), 36 dBf (stereo); S/N 75 dB (mono), 70 dB (stereo); dist. at 1000 Hz 0.1% (mono), 0.2% (stereo); frequency response 30-15,000 Hz \pm 1 dB; capture ratio 1.0 dB; alternate channel selectivity 85 dB; image and i-f rejection 115 dB; spurious rejection 120 dB; stereo separation 50 dB at 1000

Hz; AM sensitivity 15 μ V (IHF). 7 $\frac{1}{4}$ " H \times 22 $\frac{3}{4}$ " W \times 17 $\frac{1}{2}$ " D..... \$1095

SR-904 Stereo Receiver

Power amp: features Class G amplification; electronic power protection circuitry with LED; dual power meters; two-speaker switching; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.09% THD; power bandwidth 10-40,000 Hz; damping factor 45 at 1000 Hz, 8 ohms. Preamp: features bass, midrange, and treble controls; low and high filters; two-way tape dubbing and monitoring; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono), 200 mV/50k ohms (aux. and tape), 500 mV/80k ohms (DIN); phono overload 220 mV; S/N (IHF A) 75 dB (phono), 87 dB (aux. and tape); frequency response 30-15,000 Hz \pm 0.5 dB (phono), 8-40,000 Hz \pm 0.5/-1.5 dB (aux.). Tuner: features dual-gate MOS FET and four-gang linear frequency variable capacitor in front end; PLL IC in multiplex circuit; auto-lock tuning; FM muting; mode switch with LEDs; signal-strength and tuning meters; FM usable sensitivity 1.6 μ V (mono), 14 μ V (stereo); 50-dB quieting 3.1 μ V (mono), 34.5 μ V (stereo); S/N 74 dB (mono), 68 dB (stereo); THD at 1000 Hz 0.15% (mono), 0.25% (stereo); frequency response 30-15,000 Hz \pm 1 dB; capture ratio 0.1 dB; alternate channel selectivity 80 dB; image rejection 85 dB; i-f and spurious rejection 100 dB; stereo separation 45 dB at 1000 Hz; AM sensitivity 20 μ V (IHF), 300 μ V (IHF, ferrite antenna). 5 $\frac{3}{4}$ " H \times 19 $\frac{1}{4}$ " W \times 15 $\frac{3}{4}$ " D..... \$630
SR-804. Similar to SR-904 minus midrange control, DIN input, LED input indicators, and tuner auto lock system; MOS FET and three-gang linear-frequency variable capacitor in front end; 50 W/ch under same conditions; damping factor 40 at 1000 Hz, 8 ohms; aux. frequency response 10-40,000 Hz \pm 1 dB; phono overload 250 mV; aux. and tape S/N 90 dB; FM usable sensitivity 1.64 μ V (mono), 5.5 μ V (stereo) and 50-dB quieting 3.9 μ V (mono), 39 μ V (stereo); FM frequency response 30-12,000 Hz \pm 0.5 dB; alternate channel selectivity 75 dB; image rejection 56 dB; i-f and spurious rejection 80 dB; AM ferrite antenna 370 μ V/m; 5 $\frac{1}{4}$ " H \times 18 $\frac{1}{4}$ " W \times 14 $\frac{3}{16}$ " D..... \$450
SR-604. Similar to SR-804 minus high filter and aux. input; has dual five-LED power logarithmic meter display, one-way tape dubbing, and subsonic filter; 35 W/ch with 0.05% THD; power bandwidth 10-30,000 Hz; phono input sensitivity/impedance 3 mV/50k ohms; phono overload 140 mV; phono S/N 70 dB; tape frequency response 10-30,000 Hz \pm 2 dB; FM usable sensitivity 1.8 μ V mono; FM stereo HD 0.3% at 1000 Hz; alternate channel selectivity 76 dB; image rejection 50 dB; AM ferrite antenna sensitivity 300 μ V/m; 5 $\frac{3}{8}$ " H \times 17 $\frac{1}{8}$ " W \times 13 $\frac{3}{4}$ " D..... \$350

SR 504 Stereo Receiver

27 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.08% THD; input sensitivity/impedance 2.5 mV/47,000 ohms (phono), 200 mV/40,000 ohms (tape, aux.); FM sensitivity 1.8 μ V; FM alternate channel selectivity 60 dB; FM THD 0.15% (1 kHz, stereo); FM S/N 74 dB; stereo separation 74 dB (1 kHz); subsonic filter..... \$280

SR-4010 Stereo Receiver

Power amp: features integrated hybrid IC circuitry; dual five-LED power logarithmic meter display (also combines functions of signal-strength and center-tuning) with meter select switch; power/speaker switch for main, remote, and phones; 25 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; power bandwidth 10-40,000 Hz; damping factor 30 at 1000 Hz, 8 ohms. Preamp: features bass, treble, and balance controls; loudness switch; tape/source monitor switch; input selector; input sensitivity/impedance 3 mV/50k ohms (phono), 150 mV/30k ohms (tape); phono overload 130 mV; frequency response \pm 0.5 dB (phono RIAA), 15-30,000 Hz \pm 2 dB (tape); S/N (IHF A) 75 dB (phono), 92 dB (tape). Tuner: features FET and three-gang variable tuning capacitor in FM front end; PLL IC FM multiplex circuit; subsonic filter; signal strength and tuning logarithmic display; FM usable sensitivity 1.9 μ V (mono); 50-dB quieting

1 RECEIVERS

sensitivity 3.9 μV (mono), 39 μV (stereo); S/N 75 dB (mono), 70 dB (stereo); THD at 1000 Hz 0.15% (mono), 0.3% (stereo); frequency response 30-12,000 Hz ± 2 dB; capture ratio 1.0 dB; alternate channel selectivity 76 dB; image rejection 50 dB; i-f and spurious rejection 80 dB; stereo separation 40 dB at 1000 Hz; AM sensitivity 20 μV (IHF), 4 $\frac{1}{8}$ " H \times 17 $\frac{1}{8}$ " W \times 10 $\frac{5}{16}$ " D..... \$250
SR-2010. Similar to SR-4010 without power output and tuning meter display and subsonic filter; 15 W/ch with 0.3% THD and IM dist.; FM S/N 74 dB (mono), 68 dB (stereo); alternate channel selectivity 55 dB..... \$200

SR 304 Stereo Receiver

18 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.08% THD; input sensitivity/impedance 2.5 mV/47,000 ohms (phono), 200 mV/40,000 ohms (tape, aux.); FM sensitivity 1.8 μV ; FM alternate channel selectivity 56 dB; FM THD 0.3% (1 kHz, stereo); FM S/N 72 dB; stereo separation 40 dB (1 kHz); subsonic filter..... \$240

JVC

JR-S501 Stereo Receiver

Integrated stereo receiver features dc power amplifier and five-band SFA graphic equalizer; four-gang



frequency-linear tuning capacitor and FET r-f amplifier in FM front end; PLL multiplex demodulator with pilot signal canceller; thumb-controlled lateral control for speed scanning and tuning; twin tuning and power meters; pushbutton source selectors with LED display/slider controls; two-deck dubbing; FM muting; mode/loudness/high and subsonic filters; speaker 1 and 2 switches. Amplifier: 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; THD 0.008% at half-rated power; IM dist. 0.001% at rated output; damping factor 70 at 8 ohms, 1000 Hz; input sensitivity/impedance 2.5 mV/47,000 ohms (phono), 250 mV/50,000 ohms (aux. and tape); S/N (IHF "A") 75 dB (phono), 95 dB (aux. and tape); frequency response 5-40,000 Hz $+0/-1$ dB; RIAA phono equalization ± 0.2 dB from 20-20,000 Hz; phono overload 250 mV at 1000 Hz. FM tuner: usable sensitivity 10.3 dBf (1.8 μV); 50-dB quieting sensitivity 14.8 dBf (3.0 μV) mono, 37.2 dBf (39.7 μV) stereo; stereo separation 52 dB at 1000 Hz; 0.08% (mono) and 0.1% (stereo) at 1000 Hz; S/N (IHF "A") 78 dB mono, 70 dB stereo; capture ratio 1.0 dB; alternate channel selectivity 80 dB; image rejection 80 dB; i-f rejection 110 dB; frequency response 20-15,000 Hz $+0.3/-0.8$ dB. Equalizer center frequencies set at 40, 250, 1000, 5000, and 15,000 Hz with 12-dB boost or cut. 6 $\frac{3}{16}$ " H \times 22 $\frac{1}{16}$ " W \times 16 $\frac{3}{16}$ " D..... \$730

JR-S401. Similar to JR-S501 but 85 W/ch under same conditions; aux. and tape input sensitivity/impedance 210 mV/50,000 ohms; phono overload 200 mV; one-way tape dubbing..... \$630

JR-S301. Similar to JR-S401 except 60 W/ch under same conditions; aux. and tape input sensitivity/impedance 190 mV/50,000 ohms; phono overload 190 mV. FM tuner usable sensitivity 10.8 dBf (1.9 μV), stereo separation 50 dB at 1000 Hz, dist. at 1000 Hz 0.08% mono, 0.1% stereo, 55 dB image rejection, i-f rejection 80 dB; no PLL multiplex demodulator with pilot signal canceller, high filter, or phono switch; 6 $\frac{3}{16}$ " H \times 19 $\frac{1}{4}$ " W \times 14 $\frac{5}{16}$ " D \$500

JR-S201. Similar to JR-S301 except 35 W/ch under same conditions; THD and IM dist. 0.01%; aux. and tape input sensitivity/impedance 150 mV/50,000 ohms; phono overload 180 mV at 1000 Hz; signal-strength and center-tuning meters only. \$390

R-S7 Stereo Receiver

Power amp: features fully complementary OCL amp circuitry; triple power protection; two-speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; damping factor 45 from 20-20,000 Hz, 8 ohms. Preamp: features low-noise phono equalizer; bass and treble controls; balance control; loudness and source/tape monitor switches; input selector; input sensitivity/impedance 2.5 mV/47k ohms (phono), 170 mV/40k ohms (aux. and tape); phono overload 140 mV; S/N (IHF A) 82 dB (phono), 100 dB (aux. and tape); frequency response ± 0.5 dB from 20-20,000 Hz (phono RIAA), 15-50,000 Hz ± 1 dB (aux. and tape). Tuner: features PLL multiplex demodulator IC; double FM muting; signal-strength and FM tuning meters; mono switch; FM usable sensitivity 0.9 μV (mono); 50-dB quieting 1.5 μV (mono), 22.5 μV (stereo); frequency response 30-15,000 Hz $+0.5/-1$ dB; dist. at 1000 Hz 0.15% (mono), 0.3% (stereo); S/N (IHF A) 82 dB (mono), 70 dB (stereo); capture ratio 1.0 dB; alternate channel selectivity 65 dB ± 400 kHz; image rejection 60 dB; i-f rejection 90 dB; AM sensitivity 300 $\mu\text{V}/\text{m}$ (bar antenna), 30 μV (external antenna); 5 $\frac{7}{8}$ " W \times 17 $\frac{1}{16}$ " W \times 13 $\frac{13}{16}$ " D..... \$300

R-S5. Similar to R-S7 minus FM tuning meter; output 25 W/ch under same conditions; damping factor 40 from 20-20,000 Hz, 8 ohms; aux./tape input sensitivity/impedance 120 mV/40k ohms; phono overload 120 mV; 5 $\frac{7}{8}$ " H \times 16 $\frac{1}{16}$ " W \times 13 $\frac{13}{16}$ " D..... \$220

KENWOOD

KR-9050 DC Stereo Receiver

Power amp: features dc circuitry, dual peak power meters with left/right peak LEDs, and dual power supply; 200 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; IM dist. 0.0045%; slew rate 110 V/ μsec ; rise time



0.95 μsec ; frequency response 0-280,000 Hz -3 dB; S/N 115 dB (A weighted); damping factor 50 from 20-20,000 Hz. Preamp: features bass, midrange, and treble controls with tone defeat; loudness switch; subsonic and high filters; -20 dB attenuator and 50-Hz boost switches; two-way tape dubbing with monitor switch; two-way three-speaker switching with LEDs; input selector with LEDs; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 200 mV/50k ohms (aux. and tape), 2.2 mV/50k ohms (mic); S/N (A weighted) 85 dB (phono 1 and 2), 110 dB (aux. and tape), 74 dB (mic); max. phono input 260 mV; frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 5-210,000 Hz -3 dB (aux. and tape). Tuner: features dual MOS FET front end; pilot canceller; PLL multiplex filter; i-f wide/narrow band selector with LEDs; signal strength and tuning meters; FM muting; FM servo lock with LED; FM usable sensitivity 1.7 μV ; FM mono 50-dB quieting 2.8 μV , stereo 35 μV ; S/N 83 dB (mono), 76 dB (stereo); THD 0.07% (mono), 0.08% (stereo); frequency response 20-15,000 Hz ± 0.5 dB; capture ratio 1.0 dB; AM sensitivity 250 $\mu\text{V}/\text{m}$. Walnut veneer cabinet and silver panel; 6 $\frac{31}{32}$ " H \times 23 $\frac{1}{16}$ " W \times 18 $\frac{5}{16}$ " D..... \$1150

KR-8050 DC Stereo Receiver

Power amp: features dc circuitry with dc coupled switch (also functions as subsonic filter), power boost switch, and dual peak power meters; 150 W/ch continuous (power boost on) or 120 W/ch contin-

uous (power boost off), both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; IM dist. 0.005%; slew rate 200 V/ μsec ; rise time 0.9 μsec ; damping factor 85 from 20-20,000 Hz. Preamp: features bass, midrange, and treble controls with tone defeat and 50-Hz boost; two-way speaker switching; high filter switch; two-way tape dubbing with monitor switch; mic level control; mode switch; input selector with LEDs; input sensitivity/impedance 2.5 mV/50k ohms (phono 1, 2), 200 mV/50k ohms (aux. and tape), 2.2 mV/50k ohms (mic); S/N (A weighted) 85 dB (phono 1 and 2), 108 dB (aux. and tape), 74 dB (mic); max. phono input 220 mV rms; frequency response 20-20,000 Hz ± 0.2 dB (RIAA phono), 0-320,000 Hz -3 dB (aux. and tape). Tuner: features pulse count FM detector circuitry; dual-gate MOS FETs in front end; signal-strength and tuning meters; FM muting; wide/narrow i-f bandwidth selector; FM sensitivity threshold selector; FM usable sensitivity 1.8 μV ; FM mono 50-dB quieting sensitivity 3.2 μV , stereo 38 μV ; FM S/N 83 dB (mono), 75 dB (stereo); FM THD 0.07% (mono), 0.08% (stereo); FM frequency response 20-15,000 Hz $+0.5/-1$ dB; FM capture ratio 1.0 dB; AM usable sensitivity 250 $\mu\text{V}/\text{m}$. Simulated walnut grain cabinet; 6 $\frac{3}{4}$ " H \times 22 $\frac{15}{32}$ " W \times 16 $\frac{3}{16}$ " D..... \$820

KR-7050 DC Stereo Receiver

Power amp: features dc circuitry, dual peak power meters, and dc coupled switch (also functions as subsonic filter); 80 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; IM dist. 0.007%; slew rate 200 V/ μsec ; rise time 0.9 μsec ; damping factor 100 from 20-20,000 Hz. Preamp: features bass, midrange, and treble slide controls with bass and treble turnover frequency controls and tone defeat; two-way speaker switching; two tape inputs with monitor and B-to-A tape dubbing; high filter; mode selector; balance and loudness controls; input selector; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 200 mV/50k ohms (aux. and tape), 3.6 mV/50k ohms (mic); S/N (A weighted) 85 dB (phono 1 and 2), 108 dB (aux. and tape), 72 dB (mic); max. phono input 200 mV rms; frequency response ± 0.2 dB from 20-20,000 Hz (phono RIAA), 0-320,000 Hz -3 dB (aux. and tape). Tuner: features dual MOS FET front end; PLL multiplex filter with pilot canceller circuit; wide/narrow i-f bandwidth selector; signal-strength and tuning meters; FM muting and front-panel 25- μsec de-emphasis switch; FM usable sensitivity 1.8 μV ; FM 50-dB quieting sensitivity 3.5 μV (mono), 43 μV (stereo); S/N 83 dB (mono), 75 dB (stereo); THD 0.08% (mono), 0.09% (stereo); frequency response 30-15,000 Hz $+0.5/-1$ dB; FM capture ratio 1.0 dB; AM usable sensitivity 250 $\mu\text{V}/\text{m}$. Simulated walnut grain cabinet; 6 $\frac{3}{4}$ " H \times 21 $\frac{1}{2}$ " W \times 16 $\frac{3}{16}$ " D..... \$660

KR-6050. Similar to KR-7050 without midrange control, bass and treble turnover frequency controls with tone defeat, dc coupled switch, and mic input; has rear-panel FM de-emphasis switch; power output 60 W/ch continuous; IM dist. 0.01%; slew rate 100 V/ μsec , rise time 0.95 μsec , damping factor 40; preamp S/N (A weighted) 84 dB (phono 1 and 2), 105 dB (aux. and tape), aux. and tape frequency response 5-240,000 Hz -3 dB; 6 $\frac{1}{16}$ " H \times 20 $\frac{1}{8}$ " W \times 16 $\frac{3}{32}$ " D..... \$499

KR-5010 DC Stereo Receiver

Power amp: features dc circuitry and dual peak power meters; 45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD; IM dist. 0.02%; damping factor 28 from 20-20,000 Hz, 8 ohms. Preamp: features bass and treble controls; balance and loudness controls; two-way speaker switching; two tape monitors and B-to-A tape dubbing; high filter; input selector; input sensitivity/impedance 2.5 mV/50k ohms (phono 1 and 2), 150 mV/50k ohms (tape); S/N (A weighted) 82 dB (phono 1 and 2), 105 dB (tape); max. phono input 140 mV rms; frequency response ± 0.3 dB from 20-20,000 Hz (RIAA phono), 5-170,000 Hz $+0.5/-3$ dB (tape). Tuner: features wide/narrow i-f band selector, FM tuning meter, and FM muting; FM usable sensitivity 1.8 μV ; 50-dB quieting 3.5 μV (mono), 43 μV (stereo); S/N 76 dB (mono), 70 dB (stereo); THD 0.08% (mono), 0.09% (stereo); frequency response 30-15,000 Hz $+0.5/-2$ dB;

capture ratio 1 dB; AM sensitivity 10 μ V. Simulated walnut grain cabinet; 5¹/₂" H x 18¹/₂" W x 14³/₃₂" D \$399

KR-4010. Similar to KR-5010 without dual power meters and selectable i-f bandwidth; tuner section has signal-strength and tuning meters; power output 35 W; preamp S/N 81 dB (phono 1 and 2), 104 dB (tape)..... \$330

KR-3010. Similar to KR-4010 without signal-strength meter and high filter; power output 27 W/ch with 0.05% THD; IM dist. 0.05%; tape S/N 102 dB and frequency response 7-150,000 Hz +0.5/-3 dB; FM tuner usable sensitivity 1.9 μ V, 50-dB quieting sensitivity 3.8 μ V (mono) and 45 μ V (stereo); AM usable sensitivity 12 μ V \$280

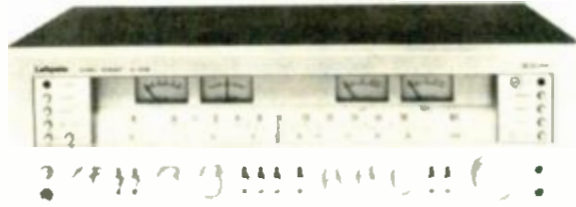
KS-4000R Stereo Receiver

Power amp: 14 W/ch continuous, both channels driven into 8 ohms from 40-20,000 Hz with 0.3% THD; preamp features bass, treble, and balance controls, one-way tape dubbing and two tape monitor switches, and AM/FM/phono input selector; tuner has tuning meter \$199

LAFAYETTE

LR-120db Stereo Receiver

Features Dolby noise-reduction system; switchable turnover on bass and treble for extended range tone controls; dual reversible tape monitors for tape-to-



tape dubbing; signal-strength and FM center-tuning meters; left/right power meters; three-speaker capability; mic jack and mixing; two headphone jacks. Amplifier: 120 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.09% THD; hum and noise -90 dB (aux., tape), -70 dB (magnetic phono 1 and 2); input sensitivity for rated output 2.5 mV (phono high), 5 mV -10 mV (phono low), 150 mV (aux., tape), 5 mV/10,000 ohms (mic); phono overload 150 mV at rated output; tape output level 0.15 mV at rated input. FM tuner: usable sensitivity 17.2 dBf; alternate channel selectivity 80 dB at 1000 Hz; capture ratio 1.3 dB at 1000 Hz, stereo; stereo separation 45 dB at 1000 Hz, 1 mV in, 30% mod.; S/N 70 dB (Dolby off, stereo), 80 dB (Dolby on, stereo); spurious rejection 90 dB; image rejection 80 dB at 1000 Hz; i-f rejection 85 dB at 1000 Hz; tape output level 0.77 V. UL approved. 7" H x 21¹/₂" W x 17³/₈" D..... \$550

LR-9090 Stereo Receiver

Features variable microphone mixing with any program source; switchable turnover on bass and treble for extended range tone controls; dual reversible tape monitors for tape-to-tape dubbing. Amplifier: 90 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.1% THD; hum and noise -80 dB (aux., tape), -65 dB (phono, low), -60 dB (phono, high); input sensitivity for rated output 2.5 mV (phono, high), 5 mV (phono, low), 150 mV (aux., tape), 6 mV (mike); phono overload 180 mV (high), 360 mV (low); tape output level 0.15 V (at rated input). Tuner: FM sensitivity 21 dBf; alternate channel selectivity 80 dB (1 kHz); capture ratio 1.25 dB (1 kHz, 1 mV in, 30% mod.); FM dist. 0.2% (1 kHz, stereo); stereo separation 40 dB (1 kHz, 1 mV in, 30% mod.); S/N 67 dB (stereo); spurious response -90 dB; image response -80 dB (1 kHz); i-f response -90 dB (1 kHz); tape output level 0.77 V (1 kHz). AM section: sensitivity 20 μ V; image response -60 dB (600 kHz); alternate channel selectivity 45 dB (1 kHz); S/N 45 dB (1 kHz); tape output level 0.3 V (1 kHz). UL approved. 6¹/₂" H x 20⁷/₈" W x 16" D..... \$500

Criterion Mk VII Stereo Receiver

Features dual tape monitors; low and high filters; electronic overload protection circuitry. Amplifier: 75 W/ch into 8 ohms from 20-20,000 Hz with 0.3% THD and IM dist.; hum and noise -90 dB

(aux., tape), -70 dB (low phono), -65 dB (high phono); input sensitivity for rated output 2.5 mV (high phono), 5 mV (low phono), 150 mV (aux., tape); phono overload 300 mV (low phono), 150 mV (high phono), 10 V (aux.); tape output level 150 mV at rated input. FM tuner section: sensitivity 1.8 μ V; alternate channel selectivity 80 dB; capture ratio 1.25 dB; FM dist. 0.25% at 1000 Hz, stereo; S/N 65 dB (stereo); spurious response -100 dB; i-f rejection 95 dB; image rejection 85 dB; tape output level 0.77 V. AM section: sensitivity 25 μ V; image response -60 dB; alternate channel selectivity 50 dB; S/N 45 dB; tape output level 0.3 mV. . . . \$370

LR-5555A Stereo Receiver

Features variable microphone mixing with any program source; dual meters for signal strength and FM center tuning; bass, midrange, and treble controls. Amplifier: 55 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.3% THD; hum and noise -80 dB (aux., tape), -65 dB (phono, low), -60 dB (phono, high); input sensitivity for rated output 2.5 mV (phono, high), 5 mV (phono, low), 150 mV (aux., tape), 6 mV (mike); phono overload 150 mV (high), 300 mV (low); tape output level 0.15 V (at rated input). FM tuner section: FM sensitivity 21 dBf; alternate channel selectivity 80 dB (1 kHz); capture ratio 1.25 dB (1 kHz, 1 mV in, 30% mod.); FM dist. 0.4% (1 kHz, stereo); stereo separation 40 dB (1 kHz, 1 mV in, 30% mod.); S/N 67 dB (stereo); spurious response -85 dB; i-f response -80 dB (1 kHz); tape output level 0.77 V (1 kHz). AM section: sensitivity 20 μ V; image response -60 dB (600 kHz); alternate channel selectivity 45 dB (1 kHz); S/N 45 dB (1 kHz); tape output level 0.3 V (1 kHz). 6¹/₂" H x 19³/₄" W x 14" D \$350

Criterion Mk V Stereo Receiver

Features dual tape monitors, high filter, loudness switch, and separate signal strength and center tuning meters. Amplifier: 44 W/ch into 8 ohms from 20-20,000 Hz with 0.3% THD and IM dist.; hum and noise -85 dB (aux. and tape), -70 dB (magnetic phono); input sensitivity 4 mV for rated output (mag. phono), 150 mV (aux., tape); phono overload 180 mV; tape output level 150 mV at rated input. FM tuner section: sensitivity 2.0 μ V; alternate channel selectivity 70 dB; capture ratio 1.5 dB; dist. 0.3% at 1000 Hz, stereo; S/N 65 dB; spurious response -75 dB; i-f rejection 80 dB; image rejection 55 dB; tape output level 0.77 V. AM section: sensitivity 25 μ V; image response -40 dB; alternate channel selectivity 50 dB; S/N 45 dB; tape output 0.3 mV. \$280

Criterion Mk III. Similar to Criterion Mk V except has one tape monitor and signal-strength meter only; 22 W/ch into 8 ohms from 20-20,000 Hz with 0.6% THD and IM dist.; hum and noise -75 dB (aux. and tape), -60 dB (magnetic phono). FM tuner dist. 0.4% at 1000 Hz, stereo; spurious response -70 dB. \$160

Criterion Mk I. Similar to Criterion Mk III except 8 W/ch into 8 ohms from 20-20,000 Hz with 0.6% THD and IM dist.; hum and noise -70 dB (aux. and tape) \$110

LR-3030A Stereo Receiver

Features dual tape monitors; derived four-channel built-in; dual tuning meters; three tone controls. Amplifier: 30 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.5% THD; hum and noise -75 dB (aux., tape), -60 dB (phono); input sensitivity for rated output 3.5 mV (phono, high), 7 mV (phono, low), 150 mV (aux., tape); phono overload

180 mV (high), 360 mV (low); tape output level 0.15 V (at rated input). FM tuner section: sensitivity 2 μ V; alternate channel selectivity 70 dB; capture ratio 1.5 dB; FM dist. 0.4% (1 kHz, stereo); stereo separation 40 dB (1 kHz); S/N 65 dB (stereo); i-f response -80 dB; image response -55 dB; tape output level 0.77 V. AM section: sensitivity 25 μ V; image response -40 dB; alternate channel selectivity 45 dB; S/N 45 dB; tape output level 0.3 V. 6¹/₂" H x 19³/₄" W x 14" D..... \$260

LR-2020A Stereo Receiver

Features dual-purpose meter for signal strength and FM center tuning; NR (noise reduction) adaptor connections serve as second tape monitor. Amplifier: 20 W/ch continuous into 8 ohms over 20-20,000 Hz with 0.6% THD; hum and noise -75 dB (aux., tape), -60 dB (phono); input sensitivity for rated output 4 mV (phono), 150 mV (aux., tape, NR adaptor); phono overload 180 mV; tape output level 0.15 V (at rated input). FM tuner section: sensitivity 23 dBf; alternate channel selectivity 70 dB; capture ratio 1.5 dB; FM dist. 0.4% (1 kHz, stereo); S/N 65 dB (stereo); spurious response -70 dB; i-f response -80 dB; image response -55 dB; tape output level 0.77 V. AM section: sensitivity 25 μ V; image response -40 dB; alternate channel selectivity 45 dB; S/N 45 dB; tape output level 0.3 V. 5³/₈" H x 16¹/₂" W x 11³/₈" D..... \$170

LR-1515A Stereo Receiver

Features signal strength/tuning meter; detent-type controls for volume, bass, treble; derived four-channel circuit built-in. Amplifier: 15 W/ch continuous into 8 ohms over 40-20,000 Hz with 0.7% THD; hum and noise -75 dB (aux., tape), -60 dB (phono); input sensitivity for rated output 4 mV (phono), 150 mV (aux., tape); phono overload 180 mV tape output level 0.15 V (at rated input). FM tuner section: sensitivity 25 dBf; alternate channel selectivity 60 dB; capture ratio 2 dB; FM dist. 0.8% (1 kHz, stereo); stereo separation 35 dB (1 kHz); S/N 63 dB (stereo); spurious response -70 dB; i-f response -80 dB; image response -50 dB; tape output level 0.77 V. AM section: sensitivity 25 μ V; image response -40 dB; alternate channel selectivity 35 dB; tape output level 0.3 V. UL approved. 5³/₈" H x 16¹/₂" W x 11³/₈" D..... \$140

LUX

R-1120 Stereo Receiver

Amplifier: 120 W/ch continuous power into 8 ohms with both channels driven (20-20,000 Hz); THD 0.03%; IM dist. no more than 0.05%; frequency response 10-60,000 Hz \pm 1 dB; input sensitivity 2.6 mV phono, 160 mV line; phono overload 175 mV; S/N, weighted (IHF "A") 94 dB phono, 95 dB line, unweighted, 66 dB (phono), 86 dB (line); filter frequencies (12 dB/oct) subsonic 15 Hz, low-cut 70 Hz, high-cut 7,000 Hz. FM tuner: FM sensitivity for 50 dB quieting, 14.1 dBf (2.8 μ V) mono, 36.8 dBf (38.0 μ V) stereo; IHF usable sensitivity 10.3 dBf (1.8 μ V) mono, 17.2 dBf (4.0 μ V) stereo; FM distortion 0.1-0.3% mono, 0.2-0.4% stereo; selectivity 80 dB; capture ratio 1.3 dB; stereo separation 42 dB at 1000 Hz; AM suppression 55 dB; image rejection 80 dB; i-f rejection 85 dB; S/N 74 dB mono, 70 dB stereo; SCA rejection 60 dB. AM section: usable sensitivity (IHF) 200 μ V/m; image ratio 75 dB; i-f rejection 80 dB; S/N 52 dB; dist. 0.5%; selectivity 32 dB. Has loudness, peak indicator, speaker switch, tape dubbing switch..... \$995

NOTICE TO READERS

Prices of items described are suggested prices only and are subject to change without notice. Actual selling prices are determined by the dealer.

R-1070 Stereo Receiver

Amplifier section: features dc and pre out/main in circuitry; LED peak level indicators; tape dubbing; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.015% THD; IM dist. 0.15%; frequency response 15-100,000 Hz; input sensitivity 2.7 mV (phono), 160 mV (tuner, aux., tape), 1.4 V (main in); phono overload 160 mV; S/N (IHF A) 86 dB (phono), 106 dB (tuner, aux., tape). FM tuner section: features wide/narrow i-f bandwidth selector; IHF usable sensitivity 1.8 μ V (mono); S/N 75 dB; frequency response 30-15,000 Hz \pm 1 dB; AM suppression 62 dB. 7 $\frac{1}{8}$ " H \times 19 $\frac{3}{8}$ " W \times 16" D..... \$795

R-1050 Stereo Receiver

55 W/ch continuous power into 8 ohms with both channels driven (20-20,000 Hz); THD and IM dist. 0.05%; frequency response 10-50,000 Hz +0/-1 dB. Features LED peak-power output indicators, signal-strength and center-channel tuning meters; speaker selector, tape dubbing switch, provision for plug-in Dolby decoder board; low-cut and high-cut filters; loudness compensation switch; two tape monitor circuits. FM specifications same as R-1120 except: IHF usable sensitivity (stereo) 18.2 dBf (4.6 μ V); selectivity 70 dB; AM suppression 52 dB; spurious response rejection 90 dB; stereo separation 40-45 dB; AM specifications same as R-1120 except usable sensitivity rated for external antenna, 15 μ V; 7 $\frac{1}{8}$ " H \times 19 $\frac{3}{8}$ " W \times 14" D..... \$595

R-1040 Stereo Receiver

Amplifier: 40 W/ch continuous power into 8 ohms with both channels driven (20-20,000 Hz); THD 0.03%; IM dist. 0.05% max.; frequency response 10-50,000 Hz +0/-1 dB. Features similar to R-1050, except single tuning meter, no Dolby provision, one tape monitor circuit. FM tuner: FM sensitivity for 50 dB quieting, 18.2 dBf (4.5 μ V) mono, 39.8 dBf (51 μ V) stereo; IHF usable sensitivity 11.2 dBf (2 μ V) mono, 19 dBf (4.8 μ V) stereo; FM distortion 0.2-0.3% mono, 0.3-0.5% stereo; selectivity 55 dB; capture ratio 1.2 dB; stereo separation 40-45 dB; AM suppression 50 dB; image rejection 55 dB; i-f rejection 70 dB; S/N 74 dB mono, 70 dB stereo; SCA rejection 60 dB. AM section: usable sensitivity (external antenna) 15 μ V; image rejection 50 dB; i-f rejection 40 dB; S/N 50 dB. 7 $\frac{1}{8}$ " H \times 19 $\frac{1}{8}$ " W \times 13 $\frac{1}{8}$ " D..... \$495

R-1030 Stereo Receiver

Amplifier: 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and 0.1% IM dist.; frequency response 10-40,000 Hz -1 dB; input sensitivity 2.5 mV (phono), 15 mV (aux. and tape); S/N 85 dB. FM tuner: usable sensitivity 11.2 dBf (mono), 19 dBf (stereo); S/N 72 dB; frequency response 30-15,000 Hz +0/-1.5 dB; IM dist. 0.2%; i-f rejection 70 dB; AM suppression 50 dB \$395

MARANTZ**2600 Stereo Receiver**

300 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.03% THD, 400 W/ch continuous into 4 ohms at 0.05% THD; five-gang dual-gate MOS FET FM front end; quartz-lock FM tuning; PLL FM multiplex demodulator; full complementary direct coupled output; turbo-flow heat dissipation system; built-in 3-in oscilloscope display; peak indicators; plug-in Dolby FM capability; high- (9 kHz, 18 dB/octave) and low-frequency (15 Hz, 18 dB/octave) filters; independent tape-to-tape copy; 7" H \times 19 $\frac{1}{2}$ " W \times 17 $\frac{1}{8}$ " D..... \$1600

2385 Stereo Receiver

185 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.05% THD, 250 W/ch continuous into 4 ohms at 0.1% THD; five-gang dual-gate MOS FET

FM front end; PLL FM multiplex demodulator; full complementary direct coupled output; peak indicators; plug-in Dolby FM capability; high- (9 kHz, 18 dB/octave) and low-frequency (15 Hz, 18 dB/octave) filters; independent tape-to-tape copy; 7" H \times 19 $\frac{1}{2}$ " W \times 17 $\frac{1}{8}$ " D..... \$1000

2330B Stereo Receiver

130 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.05% THD, 180 W/ch continuous into 4 ohms at 0.1% THD; four-gang dual gate MOS FET FM front end; PLL multiplex demodulator; full complementary direct coupled output; plug-in Dolby FM capability; high- (9 kHz, 18 dB/octave) and low-frequency (15 Hz, 18 dB/octave) filters; independent tape-to-tape copy; selectable tone turnover frequencies; 5 $\frac{3}{8}$ " H \times 19 $\frac{1}{4}$ " W \times 15 $\frac{1}{4}$ " D..... \$800

SR6000 Stereo Receiver

Power amp: features dc circuitry; LED power output logarithmic display; two-speaker switching; 70 W/



ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.025% THD and IM dist.; damping factor 50 at 20 Hz. Preamp: features bass, midrange, and treble controls; 6 dB/octave low (20 Hz) and high (8000 Hz) filters; loudness switch; rec mode selector with two-way tape dubbing and monitoring; input sensitivity/impedance 2.7 mV/47k ohms (phono), 160 mV/25k ohms (high level); phono overload 225 mV; S/N (A weighted) 90 dB (phono), 98 dB (high level); frequency response \pm 0.2 dB from 20-20,000 Hz (phono RIAA), 10-70,000 Hz \pm 1 dB (high level). Tuner: features dual-gate MOS FET r-f front end; PLL FM multiplex demodulator with pilot canceller; Gyro-Touch™ tuning; FM muting/mode and mono/stereo switch; signal-strength/multipath and FM tuning meters; FM IHF usable sensitivity 1.7 μ V (mono); 50-dB quieting 2.5 μ V (mono), 35 μ V (stereo); S/N 80 dB (mono), 72 dB (stereo); dist. at 1000 Hz 0.15% (mono), 0.2% (stereo); frequency response 30-15,000 Hz +0.5/-1 dB; capture ratio 1.0 dB; alternate channel selectivity 65 dB; image rejection 55 dB; i-f and spurious rejection 90 dB; stereo separation 45 dB at 1000 Hz; AM usable sensitivity 20 μ V (IHF) and S/N 50 dB; 5 $\frac{1}{2}$ " H \times 18 $\frac{3}{8}$ " W \times 13 $\frac{3}{8}$ " D..... \$550

SR4000. Similar to SR6000 minus rec mode selector and high filter; has one-way tape dubbing; 50 W/ch continuous under same conditions; frequency response \pm 0.3 dB (phono RIAA), 10-60,000 Hz \pm 1 dB (high level); S/N (A weighted) 88 dB (phono); phono overload 130 mV; FM IHF usable sensitivity 1.8 μ V (mono); 50-dB quieting 2.7 μ V (mono), 38 μ V (stereo); FM S/N 78 dB (mono), 70 dB (stereo); stereo dist. at 1000 Hz 0.25%; i-f rejection 85 dB. \$415

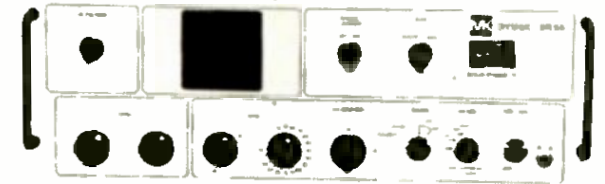
SR2000 Stereo Receiver

Power amp: features direct-coupled complementary output stage; dual power meters; two-speaker switching; 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist.; damping factor 36 at 20 Hz. Preamp: features bass, midrange, and treble controls; loudness switch; tape monitor switch; input selector; input sensitivity/impedance 2.7 mV/47k ohms (phono), 160 mV/25k ohms (high level); phono overload 130 mV; frequency response \pm 0.5 dB from 20-20,000 Hz (phono RIAA), 15-50,000 Hz \pm 1 dB (high level); S/N (A weighted) 86 dB (phono), 98 dB (high level). Tuner: features dual-gate MOS FET r-f front end; Gyro-Touch™ tuning; FM tuning meter; FM muting/mode and stereo/mono switch; FM IHF usable sensitivity 1.9 μ V (mono); 50-dB quieting 2.8 μ V (mono), 40 μ V (stereo); S/N 75 dB (mono), 68 dB (stereo); dist. at 1000 Hz 0.15% (mono), 0.25% (stereo); frequency response 30-15,000 Hz +0.5/-1 dB; cap-

ture ratio 1.0 dB; alternate channel selectivity 62 dB; image rejection 50 dB; i-f rejection 85 dB; spurious rejection 90 dB; stereo separation 45 dB at 1000 Hz; AM usable sensitivity 20 μ V and S/N 50 dB. 5 $\frac{1}{2}$ " H \times 18 $\frac{3}{8}$ " W \times 12 $\frac{3}{4}$ " D..... \$325
SR1000. Similar to SR2000 without midrange control; has separate balance and volume controls; 20 W/ch with 0.09% THD and IM dist.; damping factor 30 at 20 Hz; frequency response \pm 0.75 dB (phono RIAA), 15-40,000 Hz \pm 1 dB (high level); S/N (A weighted) 84 dB (phono), 96 dB (high level); FM 50-dB quieting 2.9 μ V (mono), 42 μ V (stereo); FM stereo dist. 0.3% at 1000 Hz; alternate channel selectivity 60 dB; i-f and spurious rejection 80 dB. \$275

McKAY DYMEK**DR 44 Professional Receiver**

Designed for commercial as well as military, industrial, and marine communications. Features Class D AM envelope detection; automatic adjusting threshold noise limiter for CW, RTTY, and SSB reception; crystal filters in first and second i-f amplifiers, mechanical filters in third i-f; CATV r-f power transistors and double-balanced diode ring mixer in r-f front end; quartz crystal PLL digital synthesis tuning with LED six-digit frequency readout display to 100 Hz; AM/USB/LSB/CW/RTTY (with external convertor) reception mode and i-f filter selectors. Sensitivity for 4000-Hz AM bandwidth varies from 1.0 μ V from 400 kHz-20 MHz to 10 μ V at 100 kHz for 10-dB S+N/N; image rejection 70 dB; r-f blocking 100 dB above 1 μ V; cross modulation 65 dB to 1 μ V; intermodulation 64 dB to 1 μ V; hum and noise -55 dB below full output; HD 0.6% at 50% modulation, 1.5% at 90% modulation; audio output 2 W at 4 ohms. Options include r-f preselector, 600-ohm, 0-dBm balanced audio output, 400-Hz CW mechanical filter, and 1200-Hz RTTY mechanical filter. 7" H \times 19" W \times 15" D..... \$1600
DR 55. Similar to DR 44 minus six-digit LED fre-



quency readout and mechanical filters for USB/LSB \$800

DR 33C Professional AM Receiver

General coverage, AM/CW/SSB receiver with digital frequency synthesis and six-digit frequency readout to 100 Hz. Amplifier section: 2 W into 4 ohms, 1 V rms into 5000 ohms; internal 4-in monitor speaker with external speaker connectors; frequency coverage 50 kHz-29.7 MHz continuous; reception modes AM, upper and lower sideband, CW, RTTY (with external convertor); sensitivity for 4-kHz AM bandwidth varies from 1.0 μ V (400 kHz-20 MHz) to 10 μ V (100 kHz) for 10 dB (S+N)/N; image rejection 70 dB; r-f blocking 100 dB above 1 μ V; cross-modulation 65 dB to 1 μ V; intermodulation 65 dB above 1 μ V; hum and noise 55 dB below full output; harmonic distortion 0.6% for 50% modulation, 1.5% for 90% modulation; max bandwidth 8 kHz. Features audio notch filter, i-f output jack, noise limiter, quartz-crystal PLL digital synthesis, independent selection of reception mode and i-f bandwidth, tuning meter. Options include r-f preselector, 600-ohm balanced audio output, 400-Hz CW and 1200-Hz RTTY filters, rack mount. 5.1" H \times 17.5" W \times 15" D..... \$1500
DR 22C. Similar to DR 33C, but 5-digit, 1-kHz readout; no separate i-f filter switch; minimum band-

NEED MORE INFORMATION?

Write directly to the manufacturer or distributor. A list of names and addresses starts on page 9.

width 4 kHz, no 400- and 1200-Hz bandwidth filter options \$995

NAD (USA)

7080 Stereo Receiver

Power amp: features eight high-current output transistors; filtered and regulated power supplies; main/remote speaker switching; 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; slew rate 40 V/ μ sec; damping factor 120 at 50 Hz, 8 ohms; S/N (A weighted) 104 dB. Preamp: features bass and treble controls with turnover frequency and tone defeat switches; infrasonic, high, and low filters; mono, mute, and loudness controls; two-way tape dubbing and monitoring with LEDs; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/50k ohms (high level); phono overload 200 mV; frequency response ± 0.3 dB (phono RIAA), 20-20,000 Hz ± 0.5 dB (high level); S/N (A weighted) 82 dB at 10 mV (phono), 95 dB (high level). Tuner: features dual-gate MOS FET front end; PLL IC multiplex demodulator; signal-strength and tuning meters; FM muting; FM IHF usable sensitivity 1.8 μ V (mono); 50-dB quieting 3.0 μ V (mono), 35 μ V (stereo); S/N (A weighted) 74 dB (mono), 70 dB (stereo); frequency response 30-15,000 Hz ± 0.5 dB; THD at 1000 Hz 0.2% (mono), 0.3% (stereo); capture ratio 1.0 dB; alternate channel selectivity 70 dB; image rejection 70 dB; i-f rejection 80 dB; stereo separation 40 dB at 1000 Hz; AM sensitivity 300 μ V. 5.9" H \times 19.3" W \times 14.2" D \$610

7060. Similar to 7080 minus turnover frequency switches and tone defeat, low filter, and audio muting; has one-way tape dubbing; 60 W/ch continuous under same conditions; slew rate 30 V/ μ sec; damping factor 100; S/N 103 dB (main amp), 80 dB at 10 mV (phono); high-level impedance 18k ohms; FM usable sensitivity 1.9 μ V mono; 50-dB quieting 3.5 μ V (mono), 45 μ V (stereo); S/N 72 dB (mono), 68 dB (stereo); capture ratio 1.5 dB; alternate channel selectivity 62 dB \pm 400 kHz; image rejection 50 dB; i-f rejection 60 dB; 5.5" H \times 17.7" W \times 14.2" D \$510

7045. Similar to 7060 except 45 W/ch continuous with 0.05% THD and IM dist.; slew rate 20 V/ μ sec; damping factor 75; high-level S/N 92 dB \$415

7030. Similar to 7045 minus LED input indicators and one-way tape dubbing; 30 W/ch with 0.09% THD and IM dist.; slew rate 15 V/ μ sec; damping factor 50; phono overload 190 mV; high-level input impedance 50k ohms \$320

NAKAMICHI

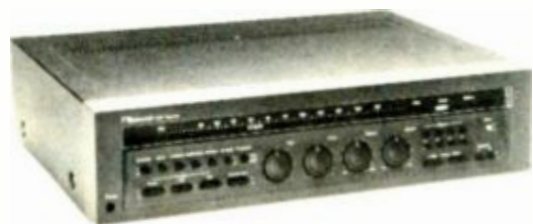
730 Receiver

Features touch-activated electronic switching for all functions; triple-transistor phono preamplifier; motor-driven variable capacitor for automatic tuning; four preset FM stations; SAW i-f filter; PLL MPX demodulator; Dolby FM; toroidal core power transformer. Specifications: 105 W/ch continuous sine wave into 8 ohms over 5-20,000 Hz with less than 0.02% THD, less than 0.004% IM dist.; phono equivalent input noise better than -137 dB; 50-dB quieting sensitivity 18.3 dBf (mono); capture ratio 1.5 dB; MPX separation better than 45 dB at 1000 Hz; 3 1/2" H \times 23 1/4" W \times 14 1/2" D \$1200

RM-730. Optional wireless remote control system for 730 Receiver; uses pulse-code-modulated infrared light \$190

530 Stereo Receiver

Amplifier: features triple-transistor phono preamp;



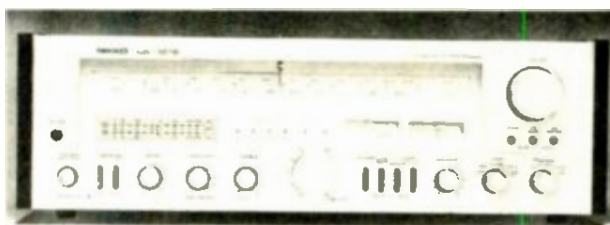
two-speaker switching; bass, treble, and balance controls; subsonic filter; mono, loudness, and audio

muting switches; input selectors; tape monitor switch; 55 W/ch continuous sine wave into 8 ohms from 10-20,000 Hz with 0.02% THD and 0.002% IM dist.; phono equivalent input noise -138 dB. Tuner: features motor-driven FM variable capacitor for automatic tuning; four-station memory preset for FM; SAW i-f filter; PLL multiplex demodulator; FM muting (with LED), hi blend, and 20/40 dBf threshold switches; FM 50-dB quieting sensitivity 19.2 dBf (mono); capture ratio 1.5 dB; stereo separation 45 dB at 1000 Hz. 5 1/8" H \times 19 1/4" W \times 13 3/4" D \$850

NIKKO

NR-1219 Stereo Receiver

Power amp: features dc circuitry; dual 12-LED power output bar display; two-speaker selector; electronic protection circuitry with LED; regulated



power supply; 100 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist; damping factor 50 into 8 ohms at 1000 Hz. Preamp features bass, midrange, and treble controls; loudness, audio muting, and subsonic and high filter switches; two-way tape monitoring and dubbing; input selector with LEDs. Tuner features T-locked tuning system with dual-gate MOS FET front end; signal-strength and tuning meters; mono, 25- μ sec de-emphasis and FM muting switches; LED stereo and T-locked indicators; FM usable sensitivity 1.8 μ V; FM separation 48 dB at 1000 Hz. Champagne gold panel with rosewood cabinet; 7" H \times 21 3/4" W \times 15" D \$650

NR-1019. Similar to NR-1219 without audio muting and FM 25- μ sec de-emphasis switch; has dual power output meters; 70 W/ch continuous under same conditions \$540

NR-819. Similar to NR-1019 without dual power meters, midrange control; LED input select indicators, and two-way tape dubbing; has tape monitor switch; 45 W/ch continuous with 0.05% THD and IM dist; damping factor 40 at 8 ohms, 1000 Hz; 6" H \times 20" W \times 13" D \$370

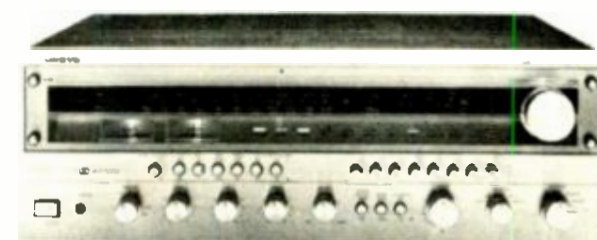
NR-719. Similar to NR-819 without high filter; 35 W/ch under same conditions \$320

NR-519. Similar to NR-719 without signal-strength meter, mode switch, and T-locked tuning with LED; 20 W/ch continuous with 0.08% THD and IM dist.; damping factor 30; FM usable sensitivity 2.2 μ V; separation 40 dB at 1000 Hz; 5 3/4" H \times 17 3/4" W \times 11" D \$250

ONKYO

TX-8500 MK II Stereo Receiver

Features digital frequency readout (FM only), quartz-locked tuning (automatic optimum tuning af-



ter rough-hand tuning) with "Accutact" control (finger-contact sensing unlocks station), and seven FM station presets. Amplifier section: 160 W/ch continuous, both channels driven into 8 ohms at 0.05% THD and IM dist.; frequency response 3-30,000 Hz ± 1 dB; phono sensitivity 2.5 mV; max. input 250 mV; input impedance 50,000 ohms, all inputs; S/N (A-weighted) 88 dB phono, 95 dB aux./tape. FM tuner section: usable sensitivity 9.3 dBf (1.6 μ V) mono; 50-dB quieting sensitivity 14.7 dBf (3.0 μ V) mono; S/N 70 dB mono, 65 dB stereo; distortion 0.15% mono, 0.3% stereo; selectivity 70 dB; i-f rejection 100 dB; image rejection

83 dB; stereo separation 40 dB at 1 kHz, 32 dB at 100-10,000 Hz. AM section: image rejection 55 dB; i-f rejection 55 dB; S/N 45 dB. Other features include linear dial scale; dual tuning meters; Dolby noise reduction; dual tape monitors with two-way dubbing; three speaker outputs; detented volume, bass, midrange, and treble controls; switchable subsonic, low and high filters, bass and treble turnover frequency; external-processor loop, audio mode and loudness compensation. 7 3/8" H \times 21 3/16" W \times 18 1/16" D \$1000

TX-6500 MK II. Similar to TX-8500 MK II, but 100 W/ch under same conditions; IM dist. 0.1%; phono max. input 200 mV. FM section: usable sensitivity 9.8 dBf (1.7 μ V); stereo dist. 0.3%; image rejection 85 dB; spurious rejection 95 dB; subcarrier suppression 60 dB. Features similar, but no digital readout or station presets; tone control turnovers not switchable; de-emphasis switch for external Dolby unit. 7 3/8" H \times 21 3/16" W \times 17 1/8" D \$650

TX-4500 MK II. Similar to TX-6500 MK II, but 60 W/ch at 0.1% THD under same conditions; IM 0.3%; frequency response 15-30,000 Hz ± 1 dB. FM section: usable sensitivity 10.3 dBf (1.8 μ V) mono, 18.3 dBf stereo; 50 dB quieting sensitivity 17.2 dBf (4 μ V) mono, 37.2 dBf (40 μ V) stereo; distortion 0.2% mono, 0.4% stereo; capture ratio 1.5 dB; image rejection 80 dB; spurious rejection 90 dB. AM section: image rejection 45 dB; i-f rejection 40 dB; S/N 40 dB. Features similar, but no midrange control, subsonic filter, and external-processor loop. 6 7/16" H \times 21 3/16" W \times 15 7/8" D \$480

TX-2500 MK II. Similar to TX-4500 MK II, but 40 W/ch under same conditions; frequency response 20-30,000 Hz ± 1 dB; damping factor 40; max. phono input 150 mV rms. FM section: usable sensitivity 11.2 dBf (2.0 μ V) mono, 19.2 dBf (5 μ V) stereo; selectivity 60 dB; i-f rejection 80 dB; image rejection 45 dB; separation at 1 kHz 37 dB. AM i-f rejection 30 dB. Features similar, but no low filter; one-way tape dubbing; servo-lock instead of quartz-lock tuning. 6 1/8" H \times 19" W \times 14 3/8" D \$355

TX-1500 MK II. Similar to TX-2500 MK II, but 17 W/ch at 0.3% THD and IM dist.; frequency response 20-20,000 Hz ± 1 dB; damping factor 30; max. phono input 100 mV. FM usable sensitivity 12.4 dBf (2.3 μ V) mono; 50-dB quieting sensitivity 18.3 dBf (4.5 μ V) mono, 39.2 dBf (50 μ V) stereo; distortion 0.25% mono, 0.5% stereo; stereo separation at 1 kHz 35 dB. Features similar, but no high filter or de-emphasis switch; single tuning meter. 5 3/8" H \times 17 1/4" W \times 12 3/8" D \$235

TX-20 Micro Stereo Receiver

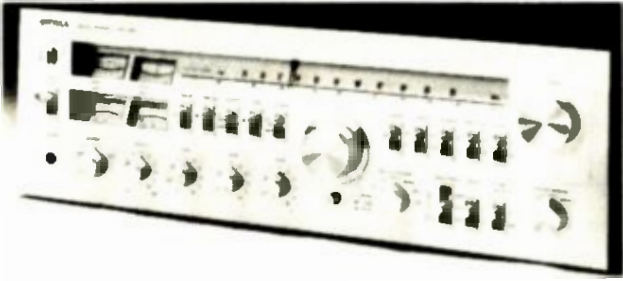
Amplifier: features bass and treble controls; balance control; A and B speaker switch; high filter; loudness switch; input selector; mode switch with LED; source/tape monitor switch; 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.08% THD. Tuner: features four-ganged variable tuning capacitor and two dual-gate MOS FETs in front end; quartz servo-lock tuning with one-touch sensor control; LED signal-strength bar display; LED tuned/locked, flashing direction arrow, and stereo indicators; muting/lock switch. Front-panel lid covers all controls, with exception of tuning, volume, function selection, and monitor controls and dial; 3" H \$330

OPTONICA

SA-5901 Stereo Receiver

Power amp section: features dual power output meters, two-color LED power protection indicator, and three-speaker switching; 125 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD. Preamp: features bass, midrange, and treble controls with tone defeat and bass and treble turnover frequency switches; low-cut and high-cut filter switches; balance control; two-way tape dubbing and monitoring with rec out selector; -20-dB muting; loudness contour switch; input selector with separate phono 1 and 2 switch; RIAA deviation ± 0.2 dB; phono overload 400 mV. Tuner: features PLL multiplex circuitry; Opto-lock tuning with LED; signal-strength and tuning meters; hi-blend, FM muting, and air-check calibrator switches; AM/FM select; FM IHF usable sensitivity

1.7 μ V (mono); FM THD 0.1% (mono), 0.3% (stereo); S/N 84 dB (mono), 75 dB (stereo); FM IHF



selectivity 85 dB; brushed aluminum faceplate; 7.1" H \times 21.6" W \times 16" D \$800
SA-5905. SA-5901 with ebony finish \$800

SA-5601 Stereo Receiver

Power amp: features dual power output meters, three-speaker switching, and two-color LED power protection indicators; 85 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD. Preamp: features bass, mid-range, and treble controls; low- and high-cut filters; loudness contour; input selector with separate phono 1 and 2 switch; rec out selector; two-way tape dubbing with monitor; -20-dB audio muting; RIAA deviation \pm 0.2 dB; phono overload 280 mV; phono S/N 76 dB. Tuner: features Opto-lock tuning with LED indicator; signal-strength and tuning meters; hi-blend, FM muting, and air check calibrator switches; AM/FM switch; FM IHF usable sensitivity 1.7 μ V; S/N 80 dB (mono), 73 dB (stereo); FM THD 0.1% (mono), 0.3% (stereo); IHF selectivity 80 dB; brushed aluminum faceplate; 7.2" H \times 21.7" W \times 15.9" D \$620
SA-5605. Same as SA-5601 except with ebony finish \$620

SA-5401 Stereo Receiver

Power amp: features two-speaker switching and two-color power protection LED indicator; 65 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.035% THD. Preamp: features bass and treble controls; low- and high-cut filters; -20-dB audio muting; mode and loudness switches; balance control; two-way tape dubbing and monitoring; input selector; RIAA deviation \pm 0.3 dB from 30-20,000 Hz; phono overload 240 mV; phono S/N 76 dB. Tuner: features Opto-lock tuning with LED; high-blend, FM muting, and air-check calibrator switches; signal-strength and tuning meters; FM sensitivity 1.8 μ V; FM S/N 73 dB (mono), 68 dB (stereo); FM THD 0.2% (mono), 0.4% (stereo); FM IHF selectivity 72 dB; brushed aluminum finish; 6.5" H \times 19.6" W \times 15.3" D \$470
SA-5405. Same as SA-5401 except with ebony finish \$470

SA-5201 Stereo Receiver

Amplifier: features two-speaker switching; LED power protection indicator; bass and treble controls; low- and high-cut filters; balance control; mode switch; one-way tape dubbing with monitor switch; loudness switch; input selector; 45 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD; phono S/N 73 dB; phono overload 150 mV. Tuner: features signal-strength and tuning meters; air check calibrator; FM muting; FM IHF usable sensitivity 1.9 μ V (mono); FM S/N 73 dB (mono), 67 dB (stereo); FM THD 0.2% (mono), 0.4% (stereo); FM IHF selectivity 60 dB; brushed aluminum faceplate; 6.4" H \times 19.3" W \times 15" D \$360
SA-5205. Same as SA-5201 except with ebony finish \$360

SA-5101 Stereo Receiver

Amplifier: features two-speaker switching; loudness control; one-way tape dubbing; 25 W/ch continuous into 8 ohms with 0.05% THD; phono S/N 73 dB; phono overload 150 mV. Tuner: features five-LED

signal-strength and three-LED tuning meter display; FM muting and air check calibrator switches; FM IHF usable sensitivity 1.9 μ V (mono); FM S/N 73 dB (mono), 67 dB (stereo); FM THD 0.1% (mono), 0.2% (stereo); FM IHF selectivity 60 dB; brushed aluminum faceplate; 5¹/₂" H \times 17⁵/₁₆" W \times 11¹/₂" D \$280

SA-5105. Same as SA-5101 but with ebony finish \$280

PANASONIC

RA-7700 Receiver/Cassette Deck

AM-FM stereo receiver with built-in stereo cassette player/recorder. Power amp section: direct-coupled circuitry; two-speaker switching; 25 W/ch continuous, both channels driven into 8 ohms from 40-20,000 Hz with 0.07% THD. Preamp: features bass and treble controls; balance control; loudness switch; tape monitor switch. Tuner: features FET r-f front end; flywheel tuning; LED signal-strength/tuning meter; afc switch. Cassette deck: front-loading design with Dolby noise-reduction system; CrO₂ and normal tape selector; tape program sensor; flow meter for peak level/VU; recording level control with two volume controls; three-digit tape counter with reset; mic mixing with separate volume control; simulated wood cabinet \$460-\$510
RA-7800. Same as RA-7700 except has 8-track player/recorder instead of cassette \$450-\$500

RA-7500 Receiver/Cassette Deck

AM-FM stereo receiver with built-in stereo cassette player/recorder. Power amp section: features direct-coupled circuitry; dual power meters; two-speaker switching; 15 W/ch continuous, both channels driven into 8 ohms from 40-20,000 Hz with 0.07% THD. Preamp: features bass and treble controls; tape monitor switch; mic mixing with separate volume control; loudness switch. Tuner: features FET r-f front end; flywheel tuning; afc tuning; signal-strength/tuning meter. Cassette deck features front-loading design with Dolby noise-reduction system; tape selector for CrO₂ and normal tapes; recording level control; two VU meters; three-digit tape counter. Simulated wood cabinet \$385-\$435
RA-7600. Same as RA-7500 except has 8-track player/recorder instead of cassette \$360-\$410

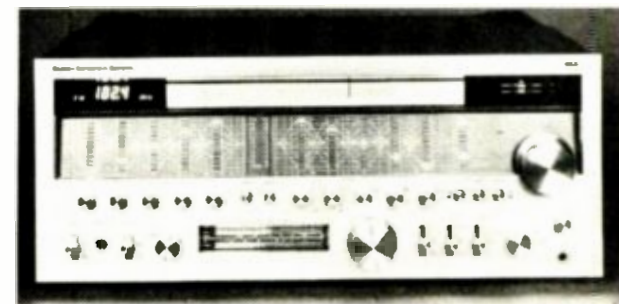
RA-7100 Stereo Receiver

Power amp: features direct-coupled circuitry; dual power meters; two-speaker switching; 15 W/ch continuous, both channels driven into 8 ohms from 40-20,000 Hz with 0.07% THD. Preamp: features bass and treble controls; loudness switch; tape monitor switch. Tuner: features FET r-f front end; flywheel tuning; afc; signal-strength/tuning meter. Simulated wood cabinet \$250-\$300

JC PENNEY

MCS 3325 Stereo Receiver

Power amplifier section: features pure complementary SEPP OCL circuitry; dual LED instantaneous



power output bar display; two-speaker switching with LEDs; 8- and 4-ohm speaker impedance switch; 125 W continuous into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist. Preamp: includes ten-band graphic equalizer display with center frequencies set at 60, 240, 1000, 4000, and 16,000 Hz, \pm 10 dB boost or cut—each channel has separate stepped controls for each band and separate tone defeat switch; loudness control; mic level control; LED-indicated input selector includes record level check; two-way tape dubbing and monitoring; frequency response \pm 0.3

dB from 30-20,000 Hz (phono RIAA); phono overload 200 mV; S/N 78 dB (phono). Tuner: features dual-gate MOS FET FM front end; PLL multiplex demodulator; FM quadrature detector; LED signal-strength and tuning indicators; LED-indicated quartz-lock tuning with LED digital FM readout display; Dolby noise-reduction adaptor switch; multiplex filter and FM muting switches; FM usable sensitivity 1.8 μ V (mono); 50-dB quieting 3.0 μ V (mono); S/N 75 dB mono; THD 0.1% (mono), 0.2% (stereo); frequency response 20-15,000 Hz; capture ratio 1 dB; alternate channel selectivity 80 dB; image rejection 85 dB; stereo separation 50 dB at 1000 Hz; AM sensitivity 300 μ V/m and S/N 55 dB. 8⁵/₃₂" H \times 19¹/₁₆" W \times 17²/₆₄" D \$900

MCS 3275 Stereo Receiver

AM-FM stereo receiver with 10-octave graphic equalizer. Amplifier: 80 W/ch, both channels driven into 8 ohms from 20-20,000 Hz with 0.25% THD; frequency response 5-60,000 Hz -2 dB, RIAA phono deviation +18.6/-19.6 dB from 30-20,000 Hz; input sensitivity 2.5 mV (phono), 150 mV (aux., tape, and Dolby in); phono overload 200 mV; output 150 mV (tape 1 and 2); S/N (IHF "A") 75 dB (phono), 100 dB (aux., tape, Dolby in); low (8 dB/octave at 20 Hz) and high (6 dB/octave at 12,000 Hz) filters. FM tuner: IHF usable sensitivity 1.9 μ V; 30-dB quieting sensitivity 1.5 μ V; THD 0.2% mono, 0.35% stereo; S/N 65 dB; alternate channel selectivity 60 dB; capture ratio 1.5 dB; image rejection 50 dB; i-f rejection 80 dB; stereo separation 45 dB at 1000 Hz, 40 at 100 Hz, 30 at 10,000 Hz. AM section: 20-dB quieting sensitivity 300 μ V/m; alternate channel selectivity 30 dB; i-f rejection 35 dB; image rejection 50 dB; THD 1.0% at rated output. Equalizer frequencies set at 60, 240, 1000, 4000, and 16,000 Hz with \pm 10 dB range; separate tone defeat switch; LED readout. Unit features attenuated volume control; two-tape deck dubbing capability; -20 dB audio muting switch; FM Dolby adaptor switch; switchable speaker selector; left/right power meters; FM dipole antenna; headphone jack; quadrature detector for FM \$600

MCS 3230 Stereo Receiver

Power amp: features two-way speaker switching; 32 W/ch continuous, both channels driven into 8 ohms from 4-20,000 Hz with 0.3% THD; IHF power bandwidth 30-22,000 Hz. Preamp: features bass and treble controls; balance control; tape monitor switch; loudness switch; input selector; input sensitivity/impedance 3.0 mV/47k ohms (phono), 250 mV/100k ohms (aux.), 400 mV/50k ohms (tape monitor); frequency response \pm 1 dB from 20-15,000 Hz (phono RIAA), 20-20,000 Hz \pm 1 dB (aux. and tape); S/N (IHF A) 70 dB (phono), 80 dB (tuner, aux., and tape). Tuner: features PLL multiplex demodulator; AM/FM signal-strength meter; FM muting; mode switch; flywheel tuning; FM usable sensitivity 2 μ V (mono); 50-dB quieting sensitivity 5 μ V (mono); S/N 70 dB; frequency response 50-15,000 Hz -3 dB; dist. 0.2% (mono); capture ratio 1.5 dB; alternate channel selectivity 60 dB \pm 400 kHz; image rejection 55 dB; stereo separation 40 dB at 1000 Hz; AM usable sensitivity 300 μ V/m and S/N 45 dB. 6" H \times 17¹/₄" W \times 11⁷/₁₆" D \$230

PHILIPS

AH903 Stereo Receiver

Power amp section: features dual vertical fluorescent power output logarithmic displays with off/ \times 1/



\times 0.1 display range selectors; two-speaker switching with LEDs; LED protection and safety indicators; 125 W/ch continuous, both channels driven

into 8 ohms from 20-20,000 Hz with 0.03% THD. Preamp section: features bass, midrange, and treble controls with tone defeat; low and high filters; -20-dB audio muting and loudness selectors; one-way tape dubbing with two-deck monitor selectors; balance control; mic mixing with level control; input selector with LED indicators. Tuner features digital tuning with LED frequency readout display; mode, adaptor, multiplex filter, and FM muting controls; LED signal-strength and tuning indicator displays. Brushed aluminum faceplate \$750

AH787 Stereo Receiver

Amplifier section: 60 W/ch continuous power into 8 ohms at 0.04% THD, both channels driven; IM dist. 0.04%; damping factor 50; frequency response 15-30,000 Hz ± 0.5 dB; phono sensitivity 2.5 mV; max. input 210 mV; input impedance phono 50k ohms, others 100k; S/N (A-weighted) 70 dB phono, 90 dB aux./tape. FM tuner section: usable sensitivity 9.8 dBf (1.7 μ V) mono; 50-dB quieting sensitivity 14.1 dBf (2.8 μ V) mono, 34.7 dBf (30 μ V) stereo; S/N at 65 dBf, 70 dB mono, 65 dB stereo; FM distortion 0.15% mono, 0.25% stereo; capture ratio 1.3 dB; selectivity 75 dB; AM suppression 45 dB; i-f rejection 100 dB; image rejection 90 dB; spurious response rejection 100 dB; stereo separation 45 dB at 1kHz. AM section: sensitivity 300 μ V/m (rod antenna); S/N 50 dB; selectivity 30 dB; image rejection 50 dB; i-f rejection 42 dB. Features switchable high and low features, mode, loudness, FM muting; dual tuning meters; detented bass and treble controls; dual tape monitors with two-way dubbing; three speaker outputs; illuminated function indicators. 6" H \times 20 $\frac{3}{4}$ " W \times 15 $\frac{1}{2}$ " D \$450

AH7871. Same as AH787 but in black \$470

AH786. Similar to AH787, except 45 W/ch at 0.05% THD and IM dist.; FM usable sensitivity 10.3 dBf (1.8 μ V). Features same, except high filter only and two speaker outputs \$400

AH7861. Same as AH786 but in black finish. \$420

AH785. Similar to AH786, except 30 W/ch at 0.08% THD under same conditions; IM dist. 0.07%; damping factor 30; frequency response 20-20,000 Hz ± 0.5 dB; maximum phono input 150 mV. Tuner section: FM usable sensitivity 10.8 dBf (1.9 μ V); 50-dB quieting sensitivity 16.1 dBf (3.5 μ V) mono, 37.7 dBf (42.0 μ V) stereo; FM distortion (stereo) 0.3%; capture ratio 1.6 dB; selectivity 70 dB; AM suppression 45 dB; i-f rejection 90 dB; image rejection 70 dB; spurious response rejection 75 dB. AM S/N 45 dB; selectivity 20 dB; i-f rejection 45 dB. Features similar, but only one tape monitor. 5.5" H \times 17.31" W \times 13.25" D \$280

AH7851. Black version of AH785 \$290

AH784. Similar to AH785, except 20 W/ch at 0.1% THD, same conditions; damping factor 25; FM usable sensitivity 11.2 dBf (2.0 μ V) mono. Features similar except no high filter, single tuning meter. \$220

AH7841. Black version of AH784 \$230

PIONEER

SX-1980 Stereo Receiver

Amplifier section: 270 W/ch continuous power into 8 ohms at 0.03% THD and IM dist., both channels driven; damping factor 40; frequency response 5-80,000 Hz $+0/-1$ dB; phono sensitivity 2.5 mV; max. input 300 mV; input impedance 50k ohms, all inputs, phono 1 switchable 10-50-100k ohms, 100-200-300-400 pF; S/N (A-weighted, inputs shorted) 87 dB phono (interference filter off), 100 dB aux./tape. FM tuner section: FM usable sensitivity 8.75 dBf (1.5 μ V) mono; 50-dB quieting sensitivity 11.5 dBf (2.2 μ V) mono, 36 dBf (34 μ V) stereo; S/N 83 dB mono, 74 dB stereo at 65 dBf; FM distortion 0.07% mono, 0.1% stereo at 1000 Hz, 0.2% stereo and mono at 6000 Hz; capture ratio 1.0 dB; selectivity 80 dB; AM suppression 60 dB; i-f rejection 120 dB; image rejection 120 dB; spurious response rejection 120 dB; subcarrier rejection 65 dB; stereo separation 50 dB at 1000 Hz, 40 dB from 30-15,000 Hz; antenna 300-ohm and 75-ohm. AM section: sensitivity 300 μ V/m (rod an-

tenna), 15 μ V (ext. antenna); S/N 55 dB; selectivity 26 dB; image rejection 70 dB; i-f rejection 70 dB. Features front-panel cartridge load impedance and capacitance controls (phono 1); two phono inputs (one doubles as mic input); dual tape monitors with two-way dubbing; separate main and sub bass and treble controls; dual power meters; quartz-lock tuning (unlocks when tuning knob is touched); dual tuning meters; function indicator lights; station memory markers; switchable high and low filters; tone defeat, mode, loudness; audio muting; FM muting; 25 μ sec FM de-emphasis (external adaptor loop provided for Dolby); audible multipath circuit; phono filter for r-f interference. 8 $\frac{3}{4}$ " H \times 22" W \times 19 $\frac{1}{4}$ " D \$1295

SX-1280. Similar to SX-1980. Amplifier section: 185 W/ch under same conditions; IM dist. 0.01%; damping factor 30; input impedance 50k ohms, all inputs; phono 1 adjustable 100, 200, 300, 400 pF; S/N 80 dB phono, 95 dB aux./tape. Tuner section: FM usable sensitivity 9.8 dBf (1.7 μ V) mono; 50-dB quieting sensitivity 14.2 dBf (2.8 μ V) mono, 36 dBf (34 μ V) stereo; S/N 80 dB mono, 71 dB stereo at 65 dBf; distortion 0.1% mono, 0.15% stereo at 1 kHz; AM suppression 55 dB; i-f rejection 110 dB; image rejection 90 dB; spurious response rejection 100 dB. AM: S/N 55 dB; image and i-f rejection 40 dB. Features similar, but switch for phono 1 capacitance only, no phono interference filter. 7 $\frac{3}{8}$ " H \times 21 $\frac{7}{8}$ " W \times 18 $\frac{1}{8}$ " D \$950

SX-1080. Similar to SX-1280. 120 W/ch, same conditions; 0.05% IM dist.; max. phono input 200 mV; S/N 76 dB phono, 90 dB aux./tape. Features same except no Phono 1 capacitance switch, single bass and treble controls with turnover switches. 6 $\frac{3}{4}$ " H \times 20 $\frac{3}{4}$ " W \times 17 $\frac{3}{4}$ " D \$750

SX-980. Similar to SX-1080, except 80 W/ch and no multipath switch. \$650

SX-880. Similar to SX-980 except 60 W/ch; S/N 76 dB phono, 95 dB aux./tape. FM section: usable sensitivity 10.3 dBf (1.8 μ V) mono; 50-dB quieting sensitivity 16.2 dBf (3.6 μ V) mono, 37.0 dBf (39.0 μ V) stereo; S/N at 65 dBf 80 dB mono, 72 dB stereo; distortion at 65 dBf 0.07% mono, 0.15% stereo at 1 kHz; capture ratio 1.0 dB; selectivity 75 dB; AM suppression 50 dB; image rejection 65 dB; i-f rejection 90 dB; spurious response -65 dB; subcarrier rejection 55 dB; stereo separation 45 dB at 1 kHz, 35 dB from 30-15,000 Hz. Features similar, but low filter only, no FM de-emphasis, audio muting, tone defeat or turnover switches; single phono input, no mic input. 5 $\frac{1}{2}$ " H \times 18 $\frac{1}{8}$ " W \times 12 $\frac{1}{8}$ " D .. \$475

SX-780. Similar to SX-880, except 45 W/ch. Features tape monitor indicator lights; dual-purpose single tuning meter; dual power meters; two speaker outputs; switchable low filter, FM muting, mode, loudness; two tape monitors with one-way dubbing. \$375

SX-680. Similar to SX-780, except 30 W/ch at 0.1% THD, same conditions; 0.1% IM dist.; frequency response 10-60,000 Hz $+0.5/-1.5$ dB; S/N 75 dB phono, 90 dB aux./tape. FM section: usable sensitivity 10.8 dBf (1.9 μ V); 50-dB quieting sensitivity 16.8 dBf (3.8 μ V) mono, 37.0 dBf (39.0 μ V) stereo; selectivity 60 dB; separation 40 dB at 1 kHz, 30 dB from 30-15,000 Hz. Features similar, but combined mode/FM mute switch, no filter, no dubbing. 5 $\frac{1}{4}$ " H \times 17 $\frac{1}{8}$ " W \times 12 $\frac{3}{8}$ " D \$300

SX-580. Similar to SX-680, except 20 W/ch at 0.3% THD, same conditions; IM dist. 0.3%; S/N 73 dB phono, 90 dB aux./tape; features single tape monitor \$225

4-Channel

QX-949A Four-Channel Receiver

Includes built-in CD-4 demodulator and decoders for regular matrix and SQ sources; continuous power output 40 W \times 4 into 8 ohms over 20-20,000 Hz; power bandwidth (IHF, four channels driven) 7-40,000 Hz with 0.3% HD; frequency response 10-25,000 Hz ± 1 dB (aux.); FM usable (IHF) sensitivity 1.8 μ V; capture ratio 1 dB; selectivity 80 dB; HD 0.2% (mono), 0.4% (stereo); four-channel level indicator; outputs for four pairs of speaker systems and three tape decks; two turntable inputs and additional aux. source input \$750

REALISTIC

STA-2100D Stereo Receiver

Amplifier section: features bass and treble controls; high and low filters; 120 W/ch continuous from 20-20,000 Hz with 0.05% THD; IM dist. 0.05% at 70 W; frequency response ± 1.5 dB from 30-20,000 Hz (phono RIAA), 15-25,000 Hz ± 1 dB (high level); input sensitivity 2, 4, or 8 mV (phono), 140 mV (high level); phono overload 220 mV; S/N 70 dB (phono), 75 dB (aux.). Tuner: features PLL multiplex demodulator; FM Dolby; 50-dB quieting 35 dBf (mono), 12 dBf (stereo); S/N 70 dB (mono), 75 dB (stereo); frequency response 20-15,000 Hz ± 1.5 dB; THD at 1000 Hz 0.1% (mono), 0.05% (stereo); capture ratio 1.5 dB; alternate channel selectivity 75 dB; stereo separation 40 dB from 100-10,000 Hz. 6 $\frac{7}{8}$ " H \times 20 $\frac{1}{2}$ " W \times 16 $\frac{7}{8}$ " D \$700

STA-2100 Stereo Receiver

Amplifier: 120 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.1% THD; frequency response 15-25,000 Hz ± 2 dB; IM dist. 0.05%; S/N 70 dB (phono), 75 dB (aux.); phono overload 230 mV. FM tuner: IHF sensitivity 10.1 dBf (1.5 μ V); capture ratio 1.5 dB; alternate channel selectivity 75 dB; stereo separation 52 dB at 1000 Hz; S/N 70 dB. AM section: sensitivity 200 μ V/m; image rejection 60 dB; S/N 45 dB. Features two tape deck monitoring and dubbing capability; three tone controls with selectable bass and treble crossover points; switchable 25/75 μ sec de-emphasis for FM Dolby B; switched and unswitched ac outlets; signal-strength and power meters; brushed aluminum front panel. 6 $\frac{7}{8}$ " H \times 20 $\frac{1}{2}$ " W \times 16 $\frac{7}{8}$ " D \$600

STA-2000D. Similar to STA-2100 except with Dolby noise-reduction system; 75 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.18% THD; IM dist. 0.1%; FM tuner sensitivity 1.7 μ V (IHF); FM stereo separation 48 dB at 1000 Hz; features similar less switchable 25/75 μ sec de-emphasis for FM Dolby B; 6 $\frac{1}{4}$ " H \times 19 $\frac{1}{4}$ " W \times 16 $\frac{1}{2}$ " D \$500

STA-240 Stereo Receiver

Amplifier: 60 W/ch continuous from 20-20,000 Hz with 0.05% THD; IM dist. 0.04% at 50 W; frequency response 20-50,000 Hz ± 2 dB; input sensitivity 2.5 mV (phono); phono overload 250 mV; S/N 69 dB (phono), 90 dB (aux.). Tuner: features LED digital FM frequency readout display; S/N 66 dB; THD 0.1%; capture ratio 1.8 dB; alternate channel selectivity 70 dB; stereo separation 51 dB at 1000 Hz \$430

STA-95 Stereo Receiver

Amplifier: 45 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.3% THD; frequency response 30-20,000 Hz ± 1 dB; S/N 65 dB (phono), 80 dB (aux.); phono overload 150 mV. FM tuner: IHF sensitivity 11.2 dBf (2 μ V); capture ratio 2 dB; alternate channel selectivity 50 dB; stereo separation 40 dB at 1000 Hz; S/N 60 dB. AM section: sensitivity 250 mV/m; image rejection 35 dB; S/N 40 dB. Features two tape monitors; front-panel tape dubbing; 25/75 μ sec de-emphasis switch for Dolby; signal-strength and center-channel tuning meters; black finish front panel. 5 $\frac{7}{8}$ " H \times 19 $\frac{7}{8}$ " W \times 14 $\frac{1}{2}$ " D \$400

STA-820 Stereo Receiver

Amplifier section: 40 W/ch continuous from 20-20,000 Hz with 0.06% THD; IM dist. 0.06% at 28 W; frequency response 10-50,000 Hz ± 2 dB; input sensitivity 2.2 mV (phono); phono overload 200 mV; S/N 65 dB (phono), 87 dB (aux.). Tuner: S/N 69 dB, THD 0.5%; capture ratio 1.9 dB; alternate channel selectivity 57 dB; stereo separation 45 dB at 1000 Hz \$360

STA-100 Stereo Receiver

Amp section: features bass and treble controls and tape monitoring and dubbing; 22 W/ch continuous from 20-20,000 Hz with 0.1% THD; frequency response ± 2 dB from 50-20,000 Hz (phono RIAA), 20-20,000 Hz ± 2 dB (high level); input sensitivity 2.2 mV (phono), 160 mV (high level); phono overload 120 mV; S/N 75 dB (aux.). Tuner: features FM Dolby de-emphasis; 50-dB quieting 39 dBf (mono),

14.2 dBf (stereo); S/N 65 dB (mono), 75 dB (stereo); frequency response 20-20,000 Hz \pm 0.5 dB (mono); THD at 1000 Hz 0.5% (mono), 0.1% (stereo); capture ratio 1.5 dB; alternate channel selectivity 65 dB; stereo separation 38 dB at 1000 Hz; 6" H \times 17" W \times 12 $\frac{1}{2}$ " D \$280

STA-52B Stereo Receiver

Amplifier: 16 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.8% THD; frequency response 15-25,000 Hz \pm 2 dB; S/N 65 dB (phono), 68 dB (aux.). FM tuner: IHF sensitivity 13.2 dBf (2.5 μ V); capture ratio 2 dB; alternate channel selectivity 65 dB; stereo separation 38 dB at 1000 Hz; S/N 65 dB. AM section: sensitivity 200 μ V/m; selectivity 30 dB; image rejection 45 dB; S/N 45 dB. Features 25/75 μ sec de-emphasis for Dolby; main/remote switching; DIN and standard tape input/output jacks; three tone controls; stereo reverse; semi-blackout dial with LED; signal-strength meter; ac outlet. 5 $\frac{1}{4}$ " H \times 17 $\frac{1}{4}$ " W \times 11 $\frac{1}{4}$ " D \$200

STA-7 Stereo Receiver

Amplifier: 10 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.5% THD; frequency response 15-30,000 Hz \pm 2 dB; S/N 60 dB (phono), 65 dB (aux.); phono overload 100 mV; frequency equalization response for mini speakers +6.5 dB at 100 Hz. FM tuner: IHF sensitivity 14.2 dBf (2.8 μ V); capture ratio 3 dB; selectivity 45 dB; stereo separation 34 dB at 1000 Hz; S/N 60 dB. AM section: sensitivity 200 μ V/m; image rejection 45 dB. Features equalization circuit for 50-Hz low-end response with mini speakers (switchable for flat response with regular speaker systems); blackout dial; signal-strength meter; A/B speaker selections; stereo/mono; three tone controls; headphone jack; ac outlet; black front panel. 3 $\frac{1}{2}$ " H \times 16 $\frac{1}{2}$ " W \times 11 $\frac{1}{2}$ " D \$160

REFERENCE by QUADRAFLEX

650FET R Stereo Receiver

Amplifier: 65 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.1% THD; IM dist. 0.02% at 1 W; S/N 80 dB (phono), 85 dB (tape and aux.); phono overload 200 mV; RIAA deviation \pm 0.25 dB; bass tone control range \pm 10 dB at 50 Hz with 150 Hz turnover and at 100 Hz with 300 Hz turnover, treble \pm 10 dB at 10,000 and 20,000 Hz. FM tuner: IHF sensitivity 9.8 dBf (1.7 μ V) mono, 17.7 dBf (4.2 μ V) stereo; 50-dB quieting sensitivity 13.5 dBf (2.6 μ V) mono, 35.9 dBf (34 μ V) stereo; channel separation at 1000 Hz 44 dB, 24 dB with multiplex blend; THD 0.1% mono, 0.15% stereo; S/N 72 dB; capture ratio 1 dB; alternate channel selectivity 72 dB; i-f rejection 95 dB; image rejection 60 dB. Features MOS FET front end, six equalization functions through turnover switch for presence control, separate LEDs; signal-strength and center-tuning meters; two-deck provisions for tape monitoring/dubbing; switchable speaker selector; hi-filter control; FM mute; overload indicator; headphone jack. 5 $\frac{3}{16}$ " H \times 18 $\frac{9}{16}$ " W \times 14" D \$480
450R. Similar to 650FET R except 45 W/ch continuous under same conditions; IM dist. 0.04%; S/N 75 dB (phono), 80 dB (tape and aux.); FM tuner alternate channel selectivity 70 dB. Features separate turnover switch for presence controls with four equalization functions for tone control \$400
300R. Similar to 450R except 30 W/ch continuous under same conditions; IM dist. 0.05%; phono overload 125 mV. FM usable sensitivity 10.3 dBf (1.8 μ V) mono, 17.9 dBf (4.3 μ V) stereo; 50-dB quieting sensitivity 14.2 dBf (2.8 μ V) mono, 36.4 dBf (36 μ V) stereo; THD 0.2% mono, 0.4% stereo; alternate channel selectivity 68 dB. Features similar minus clipping level indicator and turnover switch for presence control; 5 $\frac{3}{16}$ " H \times 17 $\frac{1}{2}$ " W \times 12 $\frac{1}{4}$ " D \$310
240R. Similar to 300R except 24 W/ch continuous under same conditions; S/N 72 dB (phono), 78 dB

(tape and aux.); phono overload 120 mV. FM tuner sensitivity (IHF) 10.8 dBf (1.9 μ V) mono, 18.3 dBf (4.5 μ V) stereo; THD 0.22% mono, 0.45% stereo; S/N 70 dB mono, 69 dB stereo. Features similar but no signal-strength meter and no LED mode indicators. 5 $\frac{3}{16}$ " H \times 16 $\frac{3}{16}$ " W \times 11 $\frac{1}{16}$ " D \$270
180R. Similar to 240R except 18 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.15% THD; S/N 70 dB (phono), 75 dB (tape and aux.). FM tuner 50-dB quieting 14.8 dBf (3.0 μ V) mono, 36.8 dBf (38 μ V) stereo; THD 0.25% mono, 0.5% stereo; alternate channel selectivity 65 dB; S/N 70 dB mono, 68 dB stereo. Features similar but less FM mute switch; 5 $\frac{3}{16}$ " H \times 16 $\frac{3}{16}$ " W \times 11 $\frac{3}{16}$ " D \$240

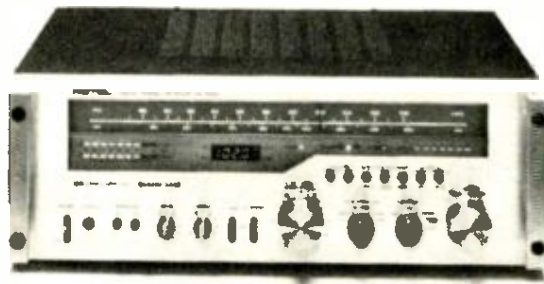
ROTEL

RX-1603 Stereo Receiver

Amplifier: 180 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD; frequency response 5-100,000 Hz \pm 3 dB; S/N (IHF "A") 75 dB (phono), 95 dB (tuner, tape). FM tuner: sensitivity for 50 dB quieting 11.5 dBf (2.1 μ V) mono, 36 dBf (35 μ V) stereo; FM usable sensitivity 8.9 dBf (1.5 μ V) mono; capture ratio 1.0 dB. Features dual tuning meters; switchable tone control turnover frequencies; high-cut and dual-frequency low-cut filters; dual phono inputs; dual tape monitors with dubbing; stepped volume, bass, and treble control; loudness switch; adjustable phono sensitivity and impedance; FM muting switch, hi-blend switch; multipath metering switch; 25 μ sec de-emphasis switch; LED function indicators; in rack-type chassis with handles. 7 $\frac{1}{16}$ " H \times 23 $\frac{5}{16}$ " W (panel) \times 18 $\frac{7}{16}$ " D \$1100

RX-2002 Stereo Receiver

Power amp: features dc circuitry and dual FET two-stage direct-coupled OCL complementary output



circuitry; dual power supplies; dual nine-LED peak power indicator display; two-speaker switching; 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist. Preamp: features direct-coupled NF phono equalizer and tone control amp and phono moving-coil head amp; bass and treble controls with tone defeat; loudness switch; subsonic and high filters; -15 dB muting; tape monitor switch with two-way dubbing; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/30k ohms (tape); phono overload 260 mV. Tuner: features dual-gate MOS FET front end; quartz-lock FM tuning with LED; LED digital frequency readout; LED signal-strength and tuning display indicators; FM PLL multiplex with built-in pilot signal canceller; FM muting and 25- μ sec de-emphasis switches; mode selector; FM usable sensitivity 1.6 μ V (mono), 50-dB quieting sensitivity 38 μ V (stereo); S/N 75 dB; capture ratio 1.0 dB; image rejection 85 dB, stereo separation 45 dB at 1000 Hz; AM sensitivity 200 μ V/m (ferrite antenna); 5 $\frac{25}{32}$ " H \times 19" W \times 14 $\frac{3}{8}$ " D \$850
RX-2001. Similar to RX-2002 without mode selector and tone defeat; power output 75 W/ch continuous under same conditions; phono input impedance 50k ohms; phono overload 250 mV; FM usable sensitivity 1.7 μ V (mono); image rejection 60 dB. \$750

RX-604 Stereo Receiver

Power amp: features dc circuitry; dual power supplies; dual peak power meters; two-speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist. Preamp: features direct-coupled NF phono equalizer and tone control amplifier; bass and treble controls; subsonic filter; input select buttons with LEDs; loudness switch; -15-dB audio muting; tape monitor switch with one-way tape dubbing; input

sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/35k ohms (tape); phono overload 160 mV. Tuner: features FM MOS FET front end; PLL multiplex; signal-strength/tuning meter; FM muting; FM useable sensitivity 1.9 μ V (mono); 50-dB quieting 42 μ V (stereo); S/N 70 dB; capture ratio 1.0 dB; image rejection 55 dB; stereo separation 45 dB at 1000 Hz; AM sensitivity 200 μ V/m (IHF, ferrite antenna); 5 $\frac{11}{16}$ " H \times 16 $\frac{15}{16}$ " W \times 13 $\frac{3}{32}$ " D ... \$400
RX-504. Similar to RX-604 minus audio muting and LED input indicators; output 40 W/ch continuous under same conditions \$350
RX-404. Similar to RX-504 minus one-way tape dubbing; has tape monitor selector; output 30 W/ch continuous with 0.06% THD and IM dist.; tape input sensitivity/impedance 150 mV/33k ohms; FM stereo 50-dB quieting 44 μ V; stereo separation 40 dB at 1000 Hz; AM sensitivity 250 μ V/m; 12 $\frac{1}{16}$ " D \$290

RV-555 Stereo Receiver

Amplifier: compact receiver with dc OCL power amplifier and dc NF phono equalizer and tone control amplifier; 20 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD, 24 W/ch into 4 ohms; frequency response 20-50,000 Hz; S/N (IHF "A") 75 dB (phono), 85 dB (tape and aux.); input sensitivity/impedance 2.8 mV/47,000 ohms (phono), 150 mV/50,000 ohms (tape, aux., and tuner). FM tuner: IHF sensitivity 2.0 μ V mono, 47 μ V stereo; alternate channel selectivity 50 dB; capture ratio 2.0 dB; S/N 70 dB mono; stereo HD 0.15% at 1000 Hz; stereo separation 35 dB at 1000 Hz; image rejection 40 dB; frequency response 30-15,000 Hz +0.5/-1 dB. AM IHF sensitivity 12.5 μ V (ext. antenna). Features signal-strength tuning meter, front-panel function and connection facilities, and stereo indicator. Includes RS-555 two-way air-suspension bookshelf speakers \$310
RV-C1. DC pulse-regulated converter for RV-555; converts to battery power supply \$100

RX-1000 Stereo Receiver

Amp: features low-noise ICs; two-speaker switching; bass and treble controls; loudness and subsonic filter switches; tape monitor switch with one-way tape dubbing; 35 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.06% THD and IM dist.; frequency response 5-40,000 Hz +0/-1 dB. Tuner: features FM FET front end; PLL multiplex; LED signal-strength and tuning indicators; FM muting; mode switch; FM useable sensitivity 1.9 μ V; 50-dB quieting 3.8 μ V (mono); capture ratio 1.5 dB; selectivity 60 dB \pm 400 kHz; stereo separation 40 dB at 1000 Hz; i-f rejection 60 dB; AM sensitivity 200 μ V/m; 3 $\frac{27}{32}$ " H \times 16 $\frac{15}{16}$ " W \times 11 $\frac{13}{32}$ " D \$300

RX-203A Stereo Receiver

Amplifier: 20 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.5% THD, 24 W/ch into 4 ohms at 1000 Hz; frequency response 20-50,000 Hz \pm 3 dB; S/N (IHF "A") 75 dB (phono), 85 dB (tuner and tape); input sensitivity/impedance 2.5 mV/47,000 ohms (phono), 150 mV/50,000 ohms (tape, aux., tuner). FM tuner: IHF sensitivity 2.0 μ V (mono), 48 μ V (stereo); capture ratio 2.0 dB; alternate channel selectivity 50 dB; IHF S/N 70 dB (mono); stereo separation 35 dB at 1000 Hz; image rejection 40 dB; frequency response 30-15,000 Hz +0.5/-1 dB; HD 0.3% stereo at 1000 Hz. AM tuner IHF sensitivity: 12.5 μ V (ext. antenna). Features dc OCL complementary power circuitry; dc NF phono equalizer and tone control amplifier; linear FM dial scale and signal-strength tuning meter; stereo indicator; facility for two speaker systems; headphone jack. 125 mm H \times 400 mm W \times 252 mm D \$220

SAE

R18 Stereo Receiver

Amplifier: features LED power and tape output bar graph display; parametric equalizer; moving-coil phono input; 180 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD. Tuner: features digital frequency readout;

quartz-lock synthesized touch tuning; LED signal-strength and multipath bar graph display; five-station AM and FM memory preset; 50-dB stereo quieting 34.7 dBf; FM dist. 0.15% (stereo). Includes infrared remote control \$1350

R12 Stereo Receiver

Amplifier: features LED power and tape output bar graph display; parametric equalizer with tape EQ; external processor loop input; moving-coil phono input; 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD. Tuner: features digital frequency readout; quartz-lock synthesized touch tuning; LED signal-strength and multipath bar graph display; 50-dB stereo quieting 34.7 dBf; FM dist. 0.15% (stereo). Includes infrared remote control \$1100

R9 Stereo Receiver

Amplifier: features LED power output bar graph display; two-way tape dubbing; external processor input; bass, midrange, and treble controls; 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD. Tuner: features digital frequency readout; quartz-lock synthesized touch tuning; LED signal-strength and multipath bar graph display; 50-dB stereo quieting 36.1 dBf; FM dist. 0.22% (stereo)..... \$800

R6 Stereo Receiver

Amplifier: features LED power and tape output bar graph display; two-way tape dubbing; external processor input; 60 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD. Tuner: features digital frequency readout; quartz-lock tuning; LED signal-strength and multipath bar display; 50-dB quieting 36.1 dBf (stereo); FM dist. 0.25% (stereo)..... \$650

R3C Receiver

Features full complementary circuitry; dual speaker-switching capability; linear phase i-f filter; loudness switch; rumble filter; signal-strength and FM center tuning meters; separate bass and treble controls calibrated ± 10 dB; balance control; headphone jack. Amplifier: 30 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.09% THD. Tuner: 50-dB quieting sensitivity 37.2 dBf (40 μ V); FM dist. 0.25% stereo \$335

SANKYO

SRC-4040 Stereo Receiver

Amplifier: 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.5% THD and IM dist.; power bandwidth 10-40,000 Hz, -3 dB at rated output; phono RIAA deviation +0.8/-0.8 dB from 20-20,000 Hz; sensitivity 2.5 mV (phono), 200 mV (aux. and tape); S/N 70 dB (phono), 80 dB (aux. and tape); damping factor better than 50 at 1000 Hz; output level 200 mV (tape), 500 mV (headphones). FM tuner section: IHF usable sensitivity 11.2 dBf (2 μ V); 50-dB quieting sensitivity (IHF) 38.2 dBf (45 μ V) stereo, 15.2 dBf (3.2 μ V) mono; capture ratio 1.5 dB (IHF); alternate channel selectivity 78 dB; i-f rejection 70 dB; AM suppression 60 dB; stereo separation 50 dB at 1000 Hz; frequency response 20-15,000 Hz +0.5/-1.5 dB; S/N 68 dB stereo, 78 dB mono. AM section: usable sensitivity 25 μ V (ext. antenna); S/N 60 dB. Features PLL multiplex circuitry; signal strength and tuning meters; high and low filters; slide-rule tuning dial; two-deck tape monitor capability; FM stereo indicator light; calibrated bass and treble controls (± 5 dB); balance control; A or B, A+B speaker selector control; headphone jack. Silver or black chassis; 5 $\frac{3}{4}$ " H \times 17 $\frac{1}{8}$ " W \times 13 $\frac{3}{8}$ " D \$350

SRC-2020 Stereo Receiver

Amplifier: 20 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.5% THD and IM dist.; power bandwidth 10-40,000 Hz, -3 dB at rated output; phono RIAA deviation +0.8/-0.8 dB from 20-20,000 Hz; sensitivity 2.5 mV (phono), 200 mV (aux. and tape); S/N 70 dB (phono), 80 dB (aux. and tape); damping factor 40 at 1000 Hz; output level 200 mV (tape), 500 mV (headphones). FM and AM tuner specifications same as SRC-4040. Features A or B, A+B speaker

selector control; FM stereo indicator light; signal strength and tuning meters; loudness switch; built-in FM muting; headphone jack. Silver or black chassis; 5 $\frac{3}{4}$ " H \times 17 $\frac{1}{8}$ " W \times 13 $\frac{3}{8}$ " D \$230

SANSUI

G-33000 DC Stereo Receiver

Features dc and "Diamond Differential dc" circuitry and independent separable housing for power amp, tuner, and preamp/control sections. Power amplifier: features four-way protection circuitry; dual LED power protector indicators; three power transformers; peak power meters (0.1-600 W); 300 W/ch continuous, both channels driven into 8 ohms from 5-20,000 Hz with 0.009% THD; THD and IM dist. 0.009%; frequency response 0-300,000 Hz +0/-3.0 dB; damping factor 60 into 8 ohms; slew rate 175 V/ μ sec; rise time 0.7 μ sec. Preamp: features bass, midrange and treble tone controls with tone defeat and bass and treble turnover frequency selectors; 32-step master volume control; selectable phono impedance selector; two-way tape monitoring/dubbing; mic mixing; subsonic and high filters; four-channel adaptor/noise reduction; two-way speaker selection with LEDs; audio muting; loudness control; input selector with LEDs; preamp/power amp separation; remote power on/off switch; frequency response 20-20,000 Hz ± 0.2 dB (RIAA), 5-50,000 Hz +0.2/-1.5 dB (aux.); input sensitivity/impedance 2.5 mV/33k, 47k, 100k ohms (phono 1), 2.5 mV/47k and 100k ohms (phono 2), 150 mV/47k ohms (aux.), 6 mV/10k ohms (mic); hum and noise -87 dB (phono), -105 dB (aux.); THD 0.002% at 1000 Hz (from aux.). Tuner: features dual-gate MOS FET front end and frequency-linear tuning capacitor; signal-strength and tuning meters; selectable wide/narrow i-f bandwidth controls; FM auto noise filter; FM muting switch; Dolby FM de-emphasis switch; AM bar antenna lever; 10-kHz whistle filter; FM sensitivity 15.0 dBf (stereo), 1.5 μ V (IHF, mono); S/N 82 dB (mono), 77 dB (stereo); frequency response 30-15,000 Hz +0.2/-1.0 dB; dist. 0.07% at 1000 Hz (stereo, wide), 0.5% at 1000 Hz (stereo, narrow); capture ratio 0.9 dB. Simulated rosewood grain finish; 8 $\frac{1}{4}$ " H \times 25 $\frac{1}{4}$ " W \times 21 $\frac{1}{4}$ " D \$1900

G-22000. Similar to G-33000 except power output 220 W/ch continuous, both channels driven into 8 ohms from 5-20,000 Hz with 0.009% THD. \$1400

G-9700 DC Stereo Receiver

Amplifier: features dc power amp; dual 12-LED bar graph peak-power level meters with range and mode



control; speaker power protector circuitry with auto shut-off; separate bass, midrange, and treble controls with tone defeat; two-way speaker switching; subsonic and high filters; loudness and balance controls; mic mixing; two-way tape monitoring and dubbing; output 200 W/ch continuous, both channels driven into 8 ohms with 0.02% THD; frequency response 0-200,000 Hz +0/-3 dB; rise time 1.4 μ sec. Tuner: features digital quartz-locked tuning circuitry; fluorescent signal-strength and center tuning readouts, LED digital frequency readout; FM wide/narrow i-f bandwidth selector; audio muting; FM mode switch; FM auto noise filter; Dolby FM de-emphasis switch \$1100

G-7700. Similar to G-9700 minus power meter range and mode selectors, midrange tone control, FM i-f bandwidth selector, and FM auto noise filter; has 15-segment LED peak power bar graph display and two-way tape dubbing; output 120 W/ch continuous with 0.025% THD; FM tuner sensitivity 1.7 μ V (IHF); FM S/N 76 dB; FM dist. 0.1%; FM capture ratio 1.0 dB \$800

G-6700. Similar to G-7700 except 90 W/ch; FM tuner sensitivity 1.9 μ V (IHF); FM S/N 75 dB. \$730

G-5700. Similar to G-6700 minus source monitor switch and high filter; power output 75 W/ch with 0.03% THD \$630

G-4700. Similar to G-5700 minus tone defeat, audio muting, mic/line mixing, two-way tape dubbing and monitoring, and Dolby FM de-emphasis controls; has source/tape monitor switch; power output 50 W/ch continuous with 0.05% THD; FM tuner dist. 0.15% \$430

G-7500 DC Stereo Receiver

Power amplifier: features dc circuitry; dc detection and overcurrent detection protector circuitry; dual peak power meters (0.1-200 W); output 90 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.025% THD; frequency response 0-200,000 Hz +0/-3 dB; damping factor 50 into 8 ohms; slew rate 60 V/ μ sec; rise time 1.4 μ sec. Preamplifier: features FET differential equalizer; bass and treble tone controls with tone defeat; mic mixing; two-way tape dubbing and monitoring; subsonic and high filters; -20-dB audio muting switch; loudness control; four-channel/noise-reduction switch; frequency response ± 0.2 dB from 20-20,000 Hz (RIAA phono), 5-50,000 Hz +0.2/-2 dB (aux.); hum and noise (IHF) -78 dB (phono), -95 dB (aux.); input sensitivity/impedance 2.5 mV/47k ohms (phono 1 and 2), 150 mV/47k ohms (aux.), 6 mV/10k ohms (mic). Tuner: features dual-gated MOS FET front end; PLL multiplex circuitry; signal-strength and tuning meters; FM muting and Dolby FM de-emphasis switches; FM sensitivity 1.8 μ V (IHF, mono), 17 dBf (stereo); S/N 72 dB (mono), 68 dB (stereo); frequency response 30-15,000 Hz +0.2/-1 dB; dist. 0.13% at 1000 Hz (mono), 0.18% at 1000 Hz (stereo); capture ratio 1.0 dB. Simulated rosewood grain finish; 7 $\frac{1}{8}$ " H \times 19 $\frac{1}{8}$ " W \times 16 $\frac{1}{8}$ " D \$620

G-5500. Similar to G-7500 minus peak power meters and high filter; power output 60 W/ch with 0.03% THD; slew rate 56 V/ μ sec; FM tuner sensitivity 1.9 μ V (IHF mono), 18 dBf (stereo); 7 $\frac{1}{8}$ " H \times 18 $\frac{1}{4}$ " W \times 16 $\frac{1}{8}$ " D \$465

G-4500. Similar to G-5500 minus tone defeat, subsonic filter, audio muting, Dolby FM de-emphasis, 4-channel noise reduction selector, and two-way tape dubbing controls; power output 40 W/ch with 0.1% THD; damping factor 30 into 8 ohms; frequency response ± 0.5 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz +1/-2 dB (aux.); hum and noise -75 dB (phono); mic input sensitivity/impedance 8 mV/10k ohms; FM tuner sensitivity 1.95 μ V (mono, IHF), 19 dBf (stereo); dist. 0.15% at 1000 Hz (mono), 0.25% at 1000 Hz (stereo); capture ratio 1.3 dB; 6 $\frac{1}{4}$ " H \times 17 $\frac{1}{8}$ " W \times 14" D \$320

G-3500. Similar to G-4500 except 26 W/ch continuous \$270

TA-500 DC Stereo Receiver

Amplifier: features dc circuitry; two-way speaker switching; bass and treble controls; two-way tape monitoring; high and phono subsonic filters; loudness control; power output 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD; frequency response 0-70,000 Hz +1/-3 dB (aux.); hum and noise -75 dB (phono). Tuner features signal-strength and tuning meters; FM mode switch; FM muting; input selector; FM sensitivity 10.8 dBf (mono); S/N 75 dB at 65 dBf (mono), matte black finish; rack-mountable \$465

TA-300. Similar to TA-500 with tape/source monitor switch; power output 30 W/ch with 0.06% THD; frequency response 10-50,000 Hz +1/-3 dB (aux.) \$340

4-Channel

QRX-9001 4-Ch AM-FM Stereo Receiver

Amplifier: 120 W/ch stereo, 60 W/ch quadraphonic, with all channels driven into 8 ohms (20-20,000 Hz); THD and IM dist. 0.3%; frequency response 20-30,000 Hz ± 1 dB; channel separation 45 dB stereo, 20 dB adjacent, 30 dB diagonal on QS decoding or synthesizing, 20 dB between front channels, 12 dB center front to center rear on SQ; 40 dB left-to-right, 25 dB front to

rear on CD-4. Features Type-A QS vario-matrix decoder, QS synthesizer, SQ decoder, and CD-4 demodulator; four channel mode selector; balancing and separate bass and treble controls for front and back channels; Dolby noise reduction available for FM or tape use; mic mixing; "Peak Range" tuning indicator with 250-kHz calibrations; dual tuning meters, four power level meters; built-in Dolby calibration oscillator; allows simultaneous recording with and without Dolby encoding. FM tuner: FM sensitivity for 50 dB quieting, 15.6 dBf mono, 38 dBf stereo; IHF usable sensitivity 10.3 dBf (1.8 μ V); distortion 0.3% mono, 0.4% stereo; selectivity 80 dB; capture ratio 1.5 dB; stereo FM separation 28-40 dB; AM suppression better than 50 dB; image rejection 75 dB; i-f rejection 95 dB; S/N 70 dB mono, 65 dB stereo. AM section: AM usable sensitivity 50 μ V/m; selectivity 35 dB; image rejection 35 dB; i-f rejection 30 dB. 6 $\frac{1}{2}$ " H \times 23 $\frac{3}{8}$ " W \times 16 $\frac{3}{8}$ " D \$1150

SANYO

PLUS 200 Stereo Receiver

Power amp section: features full input-to-output dc coupling; fluid convection radiator; dual power supplies; may be separated with optional "umbilical" cord; dual 12-LED peak power display with X0.01, X0.1, and X1 power display range selector; three-way speaker switching; 200 W/ch continuous, both channels driven into 4 or 8 ohms from 20-20,000 Hz with 0.009% THD; frequency response 7-100,000 Hz \pm 0/-1 dB; S/N 110 dB (IHF A); damping factor 60; slew rate 170 V/ μ sec. Preamp section: features variable resistive and capacitive loading for MM cartridges (with selectors) and preamp for moving-coil cartridges; bass, midrange, and treble controls with tone defeat and bass and treble turnover frequency selectors; two-way tape dubbing and monitoring; subsonic and high filters; -20-dB muting and loudness switches; input selector with LEDs; external processor loop control; input sensitivity/impedance 2.5 mV/47k ohms (phono MM), 250 μ V/100 ohms (phono MC), 150 mV/47k ohms (aux. and tape); frequency response \pm 0.2 dB from 20-20,000 Hz (phono RIAA), 20-20,000 Hz \pm 0.3 dB (aux. and tape); S/N (IHF A) 97 dB (phono MM), 70 dB (MC), 95 dB (aux. and tape); max. phono input 250 mV rms (MM), 25 mV rms (MC). Tuner: features "sampling quartz locked" tuning with frequency readout display; seven-LED signal-strength/multipath/deviation bar graph display; narrow/wide i-f bandwidth selector; FM multiplex filter; quartz locked, 25- μ sec, FM de-emphasis, and FM muting switches; FM usable sensitivity 1.8 μ V (mono); 50-dB quieting 2.6 μ V (mono), 36 μ V (stereo); THD at 1000 Hz, mono 0.15% (narrow), 0.09% (wide), stereo 0.2% (narrow), 0.1% (wide); S/N 83 dB (mono), 78 dB (stereo); frequency response 20-15,000 Hz \pm 0.5/-1 dB; alternate channel selectivity 80 dB (narrow) and 55 dB (wide) at \pm 400 kHz; capture ratio 1.8 dB (narrow), 1.2 dB (wide) \$900

PLUS 130. Similar to PLUS 200 without variable resistive and capacitive loading controls for MM cartridges, FM deviation meter function, and FM multiplex filter switch in tuner section; power amp not separable; power output 130 W/ch continuous, both channels driven into 4 or 8 ohms from 20-20,000 Hz with 0.025% THD; damping factor 50; slew rate 150 V/ μ sec \$700

PLUS 75 Stereo Receiver

Power amp: features dc, all-differential drive, and IC circuitry; dual seven-LED peak power bar graph display with X0.1 and X1 display range selector; two-way speaker switching; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; frequency response 7-100,000 Hz \pm 0/-1 dB; S/N 110 dB (IHF A); damping factor 50; input sensitivity/

impedance 1 V/47k ohms; slew rate 80 V/ μ sec. Preamp: features low-noise class-A phono preamp with moving-coil cartridge capability; bass, midrange, and treble controls with tone defeat and bass and treble turnover frequency selectors; subsonic and high filters; two-way tape dubbing and monitoring; -20-dB muting; input selector with LEDs; input sensitivity/impedance 2.5 mV/47k ohms (phono MM), 250 μ V/100 ohms (phono MC), 150 mV/47k ohms (aux. and tape); frequency response \pm 0.2 dB from 20-20,000 Hz (phono RIAA), 10-40,000 Hz \pm 0.5 dB (aux. and tape); S/N (IHF A) 85 dB (phono MM), 70 dB (phono MC), 95 dB (aux. and tape); max. phono input 200 mV (MM), 20 mV (MC). Tuner: features dual-gate MOS FET FM front end; "sampling quartz locked" tuning system with illuminated analog dial and LED digital frequency readout; quartz locked switch with LED; FM muting; five-LED signal-strength bar display; rear-panel de-emphasis switch; FM usable sensitivity 1.9 μ V (mono); 50-dB quieting 2.7 μ V (mono), 39 μ V (stereo); S/N 75 dB (mono), 70 dB (stereo); THD at 1000 Hz 0.2% (mono), 0.3% (stereo); frequency response 20-15,000 Hz \pm 1/-2 dB; alternate channel selectivity 75 dB; capture ratio 1.2 dB; stereo separation 45 dB at 1000 Hz; spurious rejection 80 dB; image rejection 70 dB; i-f rejection 90 dB; AM usable sensitivity 300 μ V/m (ferrite, external antenna). 5 $\frac{1}{4}$ " H \times 18 $\frac{7}{8}$ " W \times 11 $\frac{1}{2}$ " D \$550

PLUS 55. Similar to PLUS 75 without midrange control, bass and treble turnover frequency selectors, and tone defeat; no -20-dB muting switch; moving-magnet phono preamp only; has five-LED power bar graph display and one-way tape dubbing; output 55 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD and IM dist; damping factor 40; slew rate 60 V/ μ sec; aux. and tape frequency response 10-40,000 Hz \pm 1 dB; phono S/N 75 dB (IHF A); max. phono input 150 mV rms \$400

JCX 2900K Stereo Receiver

Amplifier section: 120 W/ch continuous power into 8 ohms at 0.08% THD, both channels driven; power bandwidth 20-20,000 Hz; frequency response 20-30,000 Hz \pm 0.2 dB; phono sensitivity 2.5 mV; maximum input 300 mV; S/N (A-weighted) 70 dB phono, 90 dB aux./tape. FM tuner section: usable sensitivity 9.3 dBf (1.6 μ V) mono; S/N 78 dB mono or stereo; FM distortion 0.1% mono, 0.15% stereo at 1 kHz; capture ratio 1.0 dB; selectivity 80 dB; AM suppression 60 dB; i-f rejection 100 dB; image rejection 85 dB; spurious response rejection 90 dB; stereo separation 45 dB at 1000 Hz; antenna 300-ohm and 75-ohm. AM section: sensitivity 280 μ V/m (rod antenna); S/N 55 dB; selectivity 33 dB; image rejection 65 dB; i-f rejection 80 dB. Features bass, midrange and treble tone controls; switchable bass and treble turnover; tone defeat; switchable low and high filters, audio muting, FM muting, hi-blend, mode, loudness; three speaker outputs; front-panel mic inputs with mixing; speaker and function indicator lights; two tape monitors with dubbing; detented volume control; signal-strength and tuning meters; two phono inputs. 6 $\frac{1}{2}$ " H \times 21 $\frac{1}{4}$ " W \times 16 $\frac{3}{4}$ " D \$550

JCX 2600K. Similar to JCX 2900K except 85 W/ch at 0.1% THD, same conditions; FM usable sensitivity 10.3 dBf (1.8 μ V); S/N 73 dB mono, 68 dB stereo; distortion 0.15% mono, 0.2% stereo at 1 kHz; stereo separation 43 dB at 1 kHz. Features similar, but two speaker outputs, no hi-blend. 6 $\frac{1}{2}$ " H \times 21 $\frac{1}{4}$ " W \times 15" D \$450

2050 Stereo Receiver

Power amp: features complementary Darlington-connected circuitry; dual power meters; two-way speaker switching; four-way output protection; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.04% THD. Preamp: features phono moving-magnet preamp; bass and treble controls; high and low filters; two-deck tape monitoring and dubbing; input selector with LEDs; input sensitivity/impedance 150 mV/47k ohms (aux. and tape), 2.5 mV (phono); frequency response \pm 0.2 dB from 30-15,000 Hz (phono RIAA), 10-40,000 Hz \pm 0/-1 dB (aux. and tape); phono overload 150 mV; S/N (IHF A) 78 dB (phono), 95 dB (aux. and tape). Tuner: features dual-gate MOS

FET front end; "sampling quartz-locked" tuning with LED locked indicator; signal-strength and tuning meters; mode/FM muting switch; FM usable sensitivity 1.9 μ V (IHF); S/N 75 dB (mono), 70 dB (stereo); dist. 0.2% (mono) and 0.3% (stereo) at 1000 Hz; capture ratio 1.5 dB; alternate channel selectivity 70 dB; spurious rejection 80 dB; image rejection 70 dB; i-f rejection 90 dB; stereo separation 45 dB at 1000 Hz; AM sensitivity 300 μ V/m. 5 $\frac{1}{4}$ " H \times 17 $\frac{1}{4}$ " W \times 10 $\frac{3}{8}$ " D \$300

2033. Similar to 2050 minus low filter switch and quartz-locked tuning; tuner has analog tuning dial; output 33 W/ch; frequency response \pm 0.4 dB (phono RIAA), 20-40,000 Hz (aux. and tape); S/N (IHF A) 73 dB (phono) and 90 dB (aux. and tape); max. phono overload 130 mV \$250

2016. Similar to 2033 minus dual power and center tuning meters, high filter, and two-way tape dubbing and monitoring; has tape/source monitor switch and one-way speaker switching; power output 16 W/ch continuous, both channels driven into 8 ohms from 40-20,000 Hz with 0.3% THD; frequency response \pm 0.8 dB from 30-15,000 Hz (phono RIAA), 10-30,000 Hz \pm 0/-1 dB (aux. and tape); aux. and tape impedance 50k ohms; phono S/N 70 dB (IHF A); FM usable sensitivity 2.0 μ V (IHF); S/N 70 dB (mono), 65 dB (stereo); dist. 0.3% (mono), 0.4% (stereo); capture ratio 3.0 dB; alternate channel selectivity 55 dB; spurious rejection 70 dB; image rejection 50 dB; i-f rejection 80 dB; stereo separation 40 dB at 1000 Hz \$170

H. H. SCOTT

390R Stereo Receiver

Amplifier section: 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at



0.03% THD and IM dist.; damping factor 100; frequency response 20-20,000 Hz \pm 0.5 dB; phono sensitivity 2.5 or 5 mV switchable; max. input 300 or 600 mV; S/N (weighted, inputs shorted) 90 dB phono, 95 dB tape/aux. FM tuner section: IHF usable sensitivity 9.8 dBf (1.7 μ V) mono; 50-dB quieting sensitivity 15.6 dBf (3.3 μ V) mono, 35.6 dBf (33 μ V) stereo; S/N 80 dB mono, 75 dB stereo; distortion 0.1% mono, 0.2% stereo; capture ratio 1.0 dB; selectivity 80 dB; i-f rejection 100 dB; image rejection 90 dB; spurious response rejection 100 dB; subcarrier rejection 74 dB; stereo separation 50 dB at 1kHz. AM section: sensitivity 150 μ V/m (rod antenna); S/N 55 dB; selectivity 50 dB; image rejection 60 dB. Features 18-LED logarithmic power display calibrated in watts and dBW; detented volume, bass, midrange and treble controls with tone defeat and switchable bass and treble turnover; two-position subsonic and high filters; FM muting; loudness mode; dual tape monitors with two-way dubbing; two phono inputs with switchable sensitivity; LED function indicators; external-processor accessory loop; dual tuning meters; three speaker outputs; switchable 25/50/75 μ sec de-emphasis. 6 $\frac{1}{2}$ " H \times 22 $\frac{7}{8}$ " W \times 15 $\frac{3}{4}$ " D \$775

380R. Similar to 390R, but 85 W/ch continuous under same conditions. Features similar, but subsonic and single-position high filters only; signal strength, tuning, and dual power meters; no loudness switch; two speaker outputs. 6" H \times 20 $\frac{3}{4}$ " W \times 13 $\frac{3}{4}$ " D \$600

370R. Similar to 380R, but 60 W/ch at 0.05% THD and IM dist. under same conditions; damping factor 60; phono sensitivity 2.5 mV; max phono input 200 mV; S/N (weighted, inputs shorted) 85 dB phono, 90 dB aux./tape. FM tuner section: usable sensitivity 10.3 dBf (1.8 μ V) mono; 50-dB quieting sensitivity 16.1 dBf (3.5 μ V) mono, 36.3 dBf (36 μ V) stereo; S/N 75 dB mono, 70 dB stereo; distortion 0.125% mono, 0.25% stereo; capture ratio 1.25 dB; selectivity 60 dB; i-f rejection 85 dB; image

rejection 65 dB; spurious response rejection 80 dB; subcarrier rejection 60 dB; stereo separation 45 dB at 1kHz. AM section: sensitivity 250 μ V/m; S/N 50 dB; selectivity 45 dB; image rejection 60 dB. Features similar, but no tone defeat or turnover switches; low instead of subsonic filter, single phono input with fixed sensitivity. 6" H \times 20 $\frac{3}{4}$ " W \times 11 $\frac{1}{2}$ " D \$500

350R. Similar to 370R, but 40 W/ch at 0.06% THD and IM dist., same conditions; FM capture ratio 1.5 dB; AM S/N 45 dB, selectivity 40 dB, image rejection 40 dB. Features similar, but no midrange control or LED input-select indicators, hi filter only, one-way tape dubbing. 5 $\frac{1}{4}$ " H \times 17 $\frac{3}{4}$ " W \times 11 $\frac{1}{2}$ " D \$400

330R. Similar to 350R except 25 W/ch at 0.08% THD and IM dist., same conditions; S/N 80 dB phono, 85 dB tape/aux.; max phono input 180 mV; damping factor 50; frequency response 20-20,000 Hz \pm 1.0 dB. FM tuner section: usable sensitivity 10.8 dBf (1.9 μ V) mono; 50-dB quieting sensitivity 16.7 dBf (3.8 μ V) mono, 37 dBf (39 μ V) stereo; S/N 72 dB mono, 67 dB stereo; distortion 0.15% mono, 0.3% stereo; capture ratio 2.0 dB; selectivity 50 dB; i-f rejection 80 dB; image rejection 55 dB; spurious response rejection 78 dB; subcarrier rejection 58 dB. Features similar, but no power meters, has single tape monitor. 5 $\frac{1}{4}$ " H \times 17 $\frac{3}{4}$ " W \times 10 $\frac{1}{4}$ " D \$280

320R. Similar to 330R, but 15 W/ch at 0.1% THD and IM dist., same conditions. FM usable sensitivity 11.2 dBf (2.0 μ V) mono; subcarrier rejection 45 dB. Features similar, but single tuning meter only (FM center-channel, AM signal-strength) \$230

SHERWOOD

S-7650 CP Stereo Receiver

Amplifier section: 45 W/ch (16.5 dBW) continuous power into 8 ohms, 20-20,000 Hz at 0.2% THD; IM dist. 0.2%; frequency response 20-20,000 Hz \pm 0.5 dB; phono sensitivity 2.5 mV; max. phono input 160 mV; phono input 47k ohms, 220 pF; S/N (A-weighted) 80 dB phono (92 dB for 10 mV in), 95 dB aux.; damping factor 30. Tuner section: FM usable sensitivity 9.8 dBf (1.7 μ V) mono; 50-dB quieting sensitivity 13.9 dBf (2.7 μ V) mono, 36.8 dBf (38 μ V) stereo; S/N 70 dB mono, 66 dB stereo; distortion 0.15% mono, 0.25% stereo, at 100% modulation; capture ratio 1.0 dB; selectivity 70 dB; AM rejection 60 dB; i-f rejection 90 dB; image response rejection 80 dB; spurious response rejection 95 dB; separation 40 dB at 1000 Hz, 30 dB from 20-10,000 Hz; antenna 300-ohm and 75-ohm. AM: sensitivity 15 μ V; selectivity 25 dB; i-f rejection 40 dB; image rejection 40 dB; spurious response rejection 40 dB; frequency response -6 dB at 4000 Hz \$425

S-7450 CP. Similar to S-7650 except 30 W/ch (14.8 dBW), same conditions; max phono input 140 mV. Tuner section: FM usable sensitivity 10.3 dBf (1.8 μ V); 50-dB quieting sensitivity 15.6 dBf (3.3 μ V) mono, 37.0 dBf (39 μ V) stereo; selectivity 60 dB; AM rejection 55 dB; image rejection 55 dB; i-f rejection 75 dB; spurious response rejection 85 dB; AM sensitivity 20 μ V \$350

S-7250 CP. Similar to S-7450 except 20 W/ch (13.0 dBW), same conditions. Tuner section: FM usable sensitivity 10.8 dBf (1.9 μ V) mono; 50-dB quieting sensitivity 16.1 dBf (3.5 μ V) mono, 37.0 dBf (39 μ V) stereo; spurious response rejection 80 dB \$290

S-7150 CP. Similar to S-7250 CP except 15 W/ch continuous under same conditions; phono S/N 79 dB (IHF A); FM capture ratio 1.2 dB \$230

SONY

STR-V7 Stereo Receiver

Direct-coupled dc power amplifier and MOS FET r-f

front end with built-in Dolby FM decoder and FM bandwidth selector in FM tuner section. Amplifier: 150 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.07% THD and IM dist.; damping factor 40 at 8 ohms; input sensitivity/impedance 2.5 mV/50,000 ohms (phono 1), 0.25 mV/100 ohms (MC phono 2), 150 mV/100,000 ohms (aux. and tape); phono overload 250 mV (phono 1), 25 mV (phono 2); output level/load impedance 250 mV/4700 ohms; frequency response 5-50,000 Hz \pm 0.5 dB (aux. and tape), RIAA phono deviation \pm 0.5 dB; bass tone control \pm 10 dB at 100 Hz, treble tone control \pm 10 dB at 10,000 Hz; high (6 dB/octave above 9000 Hz) and low (6 dB/octave below 50 Hz) filters; S/N (IHF "A") 80 dB (phono 1), 100 dB (aux. and tape). FM tuner: usable sensitivity 9.3 dBf (1.6 μ V); 50-dB quieting sensitivity 14.2 dBf (2.8 μ V) mono, 37.3 dBf (40 μ V) stereo; S/N 75 dB mono, 70 dB stereo; capture ratio 1.0 dB; alternate channel selectivity 80 dB (narrow), 50 dB (wide); image rejection 80 dB; i-f rejection 100 dB; AM suppression 60 dB; THD and IM dist. at 1000 Hz 0.08% mono, 0.15% stereo; frequency response 30-15,000 Hz \pm 0.2/-1.5 dB; stereo separation 48 dB at 1000 Hz. AM section: sensitivity 100 μ V (external antenna); S/N 50 dB; image rejection 40 dB; i-f rejection 40 dB. Features center-tuning meter with meter/switching for signal-strength indication; dual power meters; linear FM and AM dial scales; FM interstation noise muting switch; phono equalization circuitry for moving-coil cartridge phono input; connections for two phono sources, aux., and two tape decks with tape-to-tape dubbing in either direction; stepped attenuator volume control; stepped attenuator bass and treble controls; tone defeat switch; two speaker connections. 7 $\frac{1}{8}$ " H \times 20 $\frac{1}{2}$ " W \times 17 $\frac{3}{4}$ " D \$900

STR-V6. Similar to STR-V7 minus built-in Dolby FM decoder and phono equalization circuitry for low-output (MC) cartridges; 115 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.07% THD and IM dist.; phono overload 200 mV; S/N (IHF "A") 75 dB (phono), 100 dB (aux. and tape) \$700

STR-V5. Similar to STR-V6 minus FM bandwidth selector; 85 W/ch continuous into 8 ohms under same conditions; FM usable sensitivity 9.8 dBf (1.7 μ V); 50-dB quieting sensitivity 14.5 dBf (2.9 μ V) mono; alternate channel selectivity 75 dB; image rejection 80 dB \$580

STR-V4. Similar to STR-V5 less phono equalizer stage for accurate RIAA response, aux. connection, and tone control defeat switch; linear FM dial scale. Amplifier: 55 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist.; tape input sensitivity/impedance 150 mV/50,000 ohms; frequency response 5-50,000 Hz \pm 0.5/-2.0 dB (tape), RIAA phono deviation \pm 0.8 dB; phono S/N (IHF "A") 72 dB. FM tuner: usable sensitivity 10.8 dBf (1.9 μ V); 50-dB quieting sensitivity 16.4 dBf (3.6 μ V) mono, 37.9 dBf (43.0 μ V) stereo; S/N 72 dB (mono), 68 dB (stereo); alternate channel selectivity 60 dB; image rejection 45 dB; i-f rejection 95 dB; mono THD and IM dist. at 1000 Hz 0.15%; frequency response 30-15,000 Hz \pm 1.0/-2.0 dB; stereo separation 45 dB at 1000 Hz; 5 $\frac{1}{8}$ " H \times 19 $\frac{1}{8}$ " W \times 15 $\frac{1}{8}$ " D \$430

STR-V3. Similar to STR-V4 minus high and low filters and power meters; 35 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.1% THD and IM dist. \$330

STR-V2. Similar to STR-V3 minus connections for phono, two tape decks with tape-to-tape dubbing, and two speakers; 25 W/ch continuous into 8 ohms from 20-20,000 Hz with 0.3% THD and IM dist.; damping factor 30 into 8 ohms; S/N (IHF "A") 70 dB (phono), 100 dB (tape); FM mono THD and IM dist. 0.2% at 1000 Hz, stereo 0.3%; stereo separation 40 dB at 1000 Hz \$260

STR-V1. Similar to STR-V2 minus loudness com-



pensation switch; 25 W/ch continuous from 30-20,000 Hz with 0.2% THD and IM dist.; preamp frequency response \pm 1.5 dB (phono RIAA), 2-50,000 Hz \pm 0.5/-2 dB; tape S/N 85 dB; FM tuner usable sensitivity 2.2 μ V, 50-dB quieting 4.5 μ V (mono), 45 μ V (stereo); FM S/N 70 dB (mono), 65 dB (stereo); capture ratio 2.5 dB; alternate channel selectivity 35 dB; i-f rejection 90 dB; AM suppression 45 dB; stereo THD and IM dist. 0.8%; AM sensitivity 300 μ V (external antenna); 5 $\frac{3}{8}$ " H \times 18 $\frac{1}{8}$ " W \times 14 $\frac{3}{8}$ " D \$220

SYNERGISTICS

R301 Stereo Receiver

Power amp section: features discrete dc circuitry; two-speaker switching; 30 W/ch continuous, both channels driven into 8 ohms from 30-20,000 Hz with 0.5% THD and 0.15% IM dist. Preamp: features bass and treble controls; noise filter; source/tape monitor switch; mode and loudness switches; input selector with mic selection and jack; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/40k ohms (aux.), 6.0 mV/50k ohms (mic); frequency response \pm 1 dB from 20-20,000 Hz (phono RIAA and high level), 50-15,000 Hz \pm 2 dB (mic); S/N (IHF A) 78 dB (phono), 85 dB (aux.). Tuner: features FET r-f front end; PLL multiplex decoder; signal-strength and tuning meters; FM muting; FM IHF usable sensitivity 12 dBf; 50-dB quieting 16.11 dBf (mono), 37.2 dBf (stereo); S/N 68 dB (mono), 65 dB (stereo); frequency response 20-15,000 Hz \pm 2 dB; THD at 1000 Hz 0.3% (mono), 0.5% (stereo); capture ratio 1.5 dB; alternate channel selectivity 52 dB; stereo separation 40 dB at 1000 Hz; AM sensitivity 20 μ V; 5 $\frac{3}{8}$ " H \times 18 $\frac{1}{8}$ " W \times 15 $\frac{1}{2}$ " D \$275

R201. Similar to R301 minus mic input selection with jack, FM tuning meter, and FM mute; 20 W/ch under same conditions with 0.4% IM dist.; aux. input sensitivity/impedance 170 mV/30k ohms; phono RIAA \pm 1.5 dB; FM stereo 50-dB quieting 42.13 dBf; 5" H \times 6 $\frac{1}{2}$ " W \times 11 $\frac{1}{2}$ " D \$225

TANDBERG

TR 2080 Stereo Receiver

Amplifier section: 80 W/ch continuous power into 8 ohms from 20-20,000 Hz at 0.05% distortion, both channels driven; dynamic intermodulation (DIM) 0.02%; rise time 1 μ sec. AM tuner includes two MOS FETs and auto volume control. Features provision for two tape recorders, two phono, three pairs of speakers. Inputs have separate preamplifiers with adjustable sensitivity controls; mode switch; filters, tone and other controls can modify signals on Tape 2 output. Rosewood and black lacquer finishes available \$1400

TR 2060. Similar to TR 2080, with 5-gang FM tuning; electronic pushbutton selection preset tuning for five FM stations; stereo decoder w/PLL oscillator; connections for two tape decks, one phono; direct-coupled amplifier; 60 W/ch at 0.09% THD and IM, 20-20,000 Hz into 8 ohms; TIM under 0.03%; slew rate 20 V/ μ sec; rise time 1 μ sec \$800

TR 2045. Similar to TR 2060. Five FM presets; high and low filters. 45 W/ch under same conditions; FM stereo S/N 74 dB; AM suppression 65 dB; stereo separation 40 dB \$650

TECHNICS

SA-1000 Stereo Receiver

Amplifier section: 330 W/ch continuous power into 8 or 4 ohms (20-20,000 Hz) at 0.03% THD and IM dist.; frequency response 5-40,000 Hz \pm 0.5 dB; phono sensitivity 2.5 mV; input impedance phono 25k, 50k or 100k ohms; tape and aux. 47k ohms; S/N 97 dB (phono, 10 mV), 85 dB (phono, 2.5 mV), 100 dB (aux.). Tuner section: FM usable sensitivity 10.3 dBf (1.8 μ V); 50-dB quieting sensitivity 12.8 dBf (2.4 μ V) mono, 36.2 dBf (17.7 μ V) stereo; FM distortion 0.1% at 1 kHz, 0.2% at 6 kHz, mono and stereo; capture ratio 1.0 dB; selectivity 85 dB; AM suppression 60 dB; i-f rejection

120 dB; image rejection 100 dB; spurious response rejection 110 dB; subcarrier rejection 70 dB; stereo separation 50 dB at 1000 Hz, 40 dB at 10,000 Hz; antenna 75-ohm coax connector. AM section: sensitivity 30 μ V, 250 μ V/m; selectivity 35 dB; image rejection 90 dB; i-f rejection 80 dB. Features LED power-level indicator arrays for each channel with display-range select; bass, treble and midrange controls; input-selection indicator lights; front-panel phono-impedance and capacitance selectors; tape dubbing; provisions for two tape recorders and two speaker pairs; switchable audio and FM muting; loudness compensation; high and low filters (boost and cut); MPX filter; hi-blend; center-channel and signal-strength meters. 7 $\frac{1}{2}$ " H \times 14 $\frac{3}{16}$ " W \times 21 $\frac{3}{32}$ " D \$1700

SA-800. Similar to SA-1000. 125 W/ch at 0.04% THD and 0.03% IM dist.; phono input impedance 47k ohms; phono overload 200 mV; S/N 95 dB (phono, 10 mV), 83 dB (phono, 2.5 mV), 97 dB (aux.). Tuner section: FM 50-dB quieting sensitivity 13.2 dBf (2.5 μ V) mono; THD 0.1-0.3% mono, 0.2-0.4% stereo; S/N 77 dB mono, 73 dB stereo; selectivity 80 dB; image rejection 85 dB; i-f rejection and spurious response rejection 100 dB; stereo separation 45 dB at 1 kHz, 35 dB at 10 kHz; 75-ohm and 300-ohm antenna terminals. AM image rejection 50 dB, i-f rejection 45 dB. Features same as SA-1000, but without phono input impedance and capacitance selectors. 6 $\frac{1}{2}$ " H \times 22 $\frac{7}{16}$ " W \times 15 $\frac{1}{2}$ " D \$800

SA-700. Similar to SA-800 but 100 W/ch continuous power into 8 ohms, 110 W/ch into 4 ohms, at 0.04% distortion. No FM hi-blend or MPX filter. 6 $\frac{3}{16}$ " H \times 21 $\frac{3}{16}$ " W \times 15 $\frac{1}{2}$ " D \$700

SA-600. Similar to SA-700, but 70 W/ch continuous power into 8 ohms, 80 W/ch into 4 ohms. FM section: usable sensitivity 10.8 dBf (1.9 μ V); 50-dB quieting sensitivity 13.7 dBf (2.7 μ V) mono, 37.2 dBf (38.7 μ V) stereo; stereo distortion 0.3-0.4%; S/N 75 dB mono, 70 dB stereo; capture ratio 1.2 dB; selectivity 70 dB; AM suppression 55 dB; i-f rejection 90 dB; image rejection 70 dB; spurious response rejection 80 dB. Features similar, but without midrange control. 6 $\frac{3}{16}$ " H \times 19 $\frac{1}{16}$ " W \times 12 $\frac{13}{16}$ " D \$530

SA-500. Similar to SA-600, but 55 W/ch continuous power into 8 ohms, 60 W/ch into 4 ohms under same conditions (20-20,000 Hz, 0.04% THD, both channels driven). Features same, except no program-selection indicator lights \$430

SA-400. Similar to SA-500, but 45 W/ch continuous power into 8 ohms. Similar features, less LED power-level indicators. 5 $\frac{13}{16}$ " H \times 18 $\frac{1}{16}$ " W \times 11 $\frac{13}{16}$ " D \$360

SA-300. Similar to SA-400, but 35 W/ch, continuous power into 8 ohms. Same features, except dual-purpose FM center-channel/AM signal-strength meter, high filter only, no tape dubbing switch ... \$300

SA-200. Similar to SA-300, but 25 W/ch continuous power into 8 ohms. Similar features, but no high filter, only one tape monitor circuit \$200

THORENS

AT-410 Stereo Receiver

Receiver features preset selectors for five FM and two AM stations. Amplifier section: 55 W/ch contin-



uous, both channels driven into 8 ohms, from 20-20,000 Hz at 0.1% THD; damping factor 50; frequency response 20-20,000 Hz \pm 0.5 dB; phono sensitivity 2.5 mV; input impedances: phono 47k, tape 470k ohms; S/N 60 dB below 50 mW output power, phono or tape. FM tuner section: usable sensitivity 9.3 dBf (0.8 μ V); DIN stereo sensitivity 34.7 dBf (30 μ V) for 46-dB quieting; S/N 70 dB mono, 62 dB stereo (for 59.2 dBf input); FM distortion 0.3% mono, 0.5% stereo; capture ratio 1.5 dB; selectivity 70 dB; stereo separation 40 dB at 1

kHz; antenna 75-ohm and 300/240 ohm. AM sensitivity 10 μ V for 6 dB S/N. Features dual tuning meters; electronic muted switching of inputs; switchable loudness plus two-position presence contour, FM muting, afc; three-position hi filter plus low filter; two DIN tape inputs plus front-panel connection for third; dubbing; tone controls affect Tape 1 output, but not Tape 2; separable amp and preamp sections; two speaker outputs; headphone jack; speaker selection A, B, A+B. Accessory rack mounts Thorens turntables atop unit. Black or chrome finish. 6" H \times 17 $\frac{3}{16}$ " W \times 15 $\frac{1}{2}$ " D ... \$1350

AT-403. Similar to AT-410 but FM only. 35 W/ch under same conditions; damping factor 35; S/N (below 50 mW) 58 dB. FM usable sensitivity 0.9 μ V/75 ohms (10.3 dBf) mono; DIN stereo sensitivity 40 μ V/75 ohms (43.2 dBf); S/N 67 dB mono, 62 dB stereo; capture ratio 1.8 dB; selectivity 60 dB. Features similar, but no filters, one tape monitor, amp and preamp not separable \$1000

TOSHIBA

SA-7150 Stereo Receiver

Digital-synthesis-tuned receiver with digital frequency readout and six-station memory. Amplifier section: features OCL circuitry, toroidal power



transformer, peak-reading power meters, and three-speaker switching; 150 W/ch continuous power into 8 ohms (20-20,000 Hz) at 0.05% or less THD and IM dist. (0.03% at half power); power bandwidth 5-35,000 Hz; frequency response 5-50,000 Hz \pm 0/-0.5 dB; damping factor 50. Preamp: features bass and treble controls with turnover frequency switches and tone defeat; low and high filters; -20 dB audio muting; two-way tape dubbing and monitoring; mode switch; input selector; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (aux. and tape); phono overload 350 mV rms at 1000 Hz frequency response \pm 0.2 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz \pm 0.5/-1.5 dB (aux.). S/N 80 dB (phono), 95 dB (tape and aux.). Tuner section: features LED signal-level display; Dolby FM; FM muting; hi-blend. multipath listening check; wide/narrow FM i-f; FM usable sensitivity 9.8 dBf (1.7 μ V); 50-dB quieting sensitivity 14.7 dBf (3.0 μ V) mono, 37.6 dBf (42 μ V) stereo; S/N 70 dB (stereo), 75 dB (mono); FM distortion 0.1% stereo, 0.08% mono; capture ratio 1.0 dB; selectivity 80 dB narrow, 50 dB wide; AM suppression 55 dB; i-f rejection 100 dB; spurious rejection 100 dB; image rejection 85 dB at 98 MHz; subcarrier rejection 70 dB; stereo separation 50 dB at 1000 Hz. AM sensitivity 350 μ V/m (IHF, ferrite antenna), 30 μ V/m (IHF, ext. antenna); AM selectivity 30 dB; S/N 50 dB; image rejection 40 dB; i-f rejection 30 dB. Brushed aluminum front panel with speaker and tone controls behind retractable cover; walnut side panels; 7.9" H \times 21.7" W \times 19.7" D \$1100

SA-7100. Similar in styling and features to SA-7150, but with conventional tuning, linear dial, and signal and tuning meters; no tape level-set tone; has single i-f bandwidth (80 dB selectivity). Amplifier section: 100 W/ch continuous power. FM tuner section: stereo S/N 68 dB; distortion 0.2% stereo, 0.1% mono to 6 kHz; stereo separation 45 dB at 1kHz; AM sensitivity 300 μ V/m; 7 $\frac{1}{2}$ " H \times 21 $\frac{3}{16}$ " W \times 18 $\frac{1}{16}$ " D \$670

SA-775 Stereo Receiver

Power amp: features fully complementary OCL amplifiers; dual power supplies; dual power output meters; two-speaker switching; 75 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; frequency response 5-50,000 Hz \pm 0/-0.5 dB; damping factor

50. Preamp: features bass and treble controls with 400- and 2500-Hz turnover frequency switches; low and high filters; two-way tape dubbing and monitoring; input selector with LEDs; -20 dB audio muting; mode switch; balance control; input sensitivity/impedance 2.5 mV/47k ohms (phono 1 and 2), 150 mV/47k ohms (tuner, aux., tape); phono overload 350 mV at 1000 Hz; frequency response \pm 0.2 dB from 30-15,000 Hz (phono RIAA), 10-50,000 Hz \pm 0.5/-1 dB (aux.); THD 0.025%; S/N 80 dB (phono), 95 dB (tape and aux.). Tuner: features dual-gate MOS FET and four-gang linear tuning condenser in FM front end; PLL multiplex demodulator; flywheel tuning; FM muting and adaptor switches; signal strength and tuning meters; multipath and loudness switches; FM usable sensitivity 1.7 μ V (mono); 50-dB quieting 3.0 μ V (mono), 42 μ V (stereo); S/N 75 dB (mono), 68 dB (stereo); frequency response 20-15,000 Hz \pm 0.5/-1.5 dB; dist. at 1000 Hz 0.1% (mono), 0.2% (stereo); capture ratio 1.0 dB; alternate channel selectivity 80 dB; image rejection 85 dB; i-f and spurious rejection 100 dB; stereo separation 45 dB at 1000 Hz. AM sensitivity 300 μ V/m and S/N 50 dB. Brushed aluminum front panel with tone and speaker controls hidden behind retractable cover; walnut side panels; 7 $\frac{1}{2}$ " H \times 12 $\frac{3}{16}$ " W \times 18 $\frac{1}{16}$ " D \$550

SA-850 Stereo Receiver

Power amp: features dc circuitry; triple-secondary power transformer and twin filter capacitors; two-speaker switching; 50 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.03% THD and IM dist.; power bandwidth 10-35,000 Hz; damping factor 50. Preamp: features bass and treble controls with tone defeat; subsonic filter; loudness and mode switches; two-way tape dubbing and monitoring; input selector; input sensitivity/impedance 2.5 mV/47k ohms (phono), 150 mV/47k ohms (tuner, aux., tape); phono overload 200 mV rms at 1000 Hz; frequency response \pm 0.3 dB from 20-20,000 Hz (phono RIAA), 10-40,000 Hz \pm 0.5/-1 dB (tuner, aux., tape); S/N 78 dB (phono), 95 dB (tape and aux.). Tuner: features PLL quartz crystal digital synthesizer tuning with up/down scan tuning and LED digital frequency readout; six-station memory preset for AM and FM; band and mode switches; five-LED signal-strength meter bar display; FM usable sensitivity 1.8 μ V (mono); 50-dB quieting 3.2 μ V (mono), 45 μ V (stereo); S/N 72 dB (mono), 68 dB (stereo); frequency response 20-15,000 Hz \pm 0.5/-1.5 dB; dist. at 1000 Hz 0.15% (mono), 0.2% (stereo); capture ratio 1.0 dB; alternate channel selectivity 80 dB; image rejection 60 dB; i-f rejection 90 dB; spurious rejection 75 dB; stereo separation 45 dB at 1000 Hz. AM sensitivity 300 μ V/m (IHF, ferrite antenna) and S/N 50 dB. Brushed aluminum front panel with walnut side panels (amplifier controls hidden behind lower half of front panel); 4.5" H \times 18.9" W \times 15.4" D \$520

SA-750 Stereo Receiver

Amplifier section: 50 W/ch continuous power into 8 ohms (20-20,000 Hz) at 0.08% THD, both channels driven; THD 0.05% or less at 25 W/ch; IM dist. 0.08% at rated power, 0.05% at 25 W/ch; power bandwidth 10-35,000 Hz; frequency response 10-40,000 Hz \pm 0.5/-1 dB (aux.), 30-15,000 Hz \pm 0.3 dB (phono); S/N 72 dB phono, 95 dB tape/aux.; input impedance 47k ohms, all inputs; phono sensitivity 2.5 mV; phono overload level 200 mV; tape output 150 mV, DIN output 30 mV. Tuner section: FM usable sensitivity 10.3 dBf (1.8 μ V); 50-dB quieting sensitivity 38.3 dBf (45 μ V) stereo, 15.3 dBf (3.2 μ V) mono; S/N 68 dB stereo, 75 dB mono; capture ratio 1.0 dB; selectivity 80 dB; i-f rejection 100 dB; image rejection 80 dB; spurious response rejection 100 dB; subcarrier rejection 60 dB; stereo separation 45 dB at 1000 Hz, 30 dB from 30-15,000 Hz; antenna 75 or 300 ohms. AM section: sensitivity 300 μ V/m (IHF, ferrite antenna), 30 μ V/m (IHF, ext. antenna); selectivity 35 dB; S/N 50 dB; image rejection 45 dB; i-f rejection 40 dB. Provisions for two tape decks with direct dubbing and two pairs of speakers; hi and low filters; switchable FM muting; switchable loudness; 25- μ sec Dolby de-emphasis position for use with external Dolby decoder; two ac convenience outlets;

41-position volume attenuator. 5¹¹/₁₆" H × 18⁷/₁₆" W × 15³/₁₆" D \$380
SA-735. Similar to SA-750 minus low filter; has one-way tape dubbing; 35 W/ch. FM section: 10.8 dBf (1.9 μV) usable sensitivity; 50-dB quieting sensitivity 39.2 dBf (50 μV) stereo, 16 dBf (3.5 μV) mono; selectivity 65 dB; AM suppression 50 dB; i-f rejection 90 dB; image rejection 60 dB at 98 MHz; spurious rejection 75 dB \$300
SA-725. Similar to SA-735 minus one-way tape dubbing; has tape/source monitor switch; 25 W/ch under same conditions; damping factor 40; frequency response ± 0.5 dB (phono RIAA), 10-40,000 Hz ± 1 dB (aux.); tape and aux. S/N 90 dB; FM mono S/N 70 dB; FM dist. 0.2% (mono), 0.3% (stereo); FM frequency response 20-15,000 Hz +0.5/-2.0 dB; FM i-f rejection 80 dB; FM stereo separation 40 dB at 1000 Hz; 5.7" H × 18.9" W × 13.4" D \$250

YAMAHA

CR-3020 Stereo Receiver

Amplifier section: 170 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz at 0.1% THD, 200 W/ch into 4 ohms; IM dist. 0.03%;



damping factor 70; frequency response 0-100,000 Hz +2/-3 dB; phono sensitivity 2 mV (MM), 50 μV (MC); max. input levels 310 mV (MM in), 7.5 mV (MC); input impedance 47k, 68k, 100k ohms (phono 1, MM), 10 ohms (phono 2, MC), 50k ohms (others); S/N (IHF "A") 96 dB (MM phono), 85 dB (MC phono), 100 dB (aux., tape), 118 dB (power amp main in). Tuner section: FM usable sensitivity 11.2 dBf (2.0 μV) mono; 50-dB quieting sensitivity 15.3 dBf (3.2 μV) mono, 37.2 dBf (40 μV) stereo; FM S/N 80 dB mono, 75 dB stereo; FM dist. 0.07% mono or stereo at 1000 Hz (local), 0.2% mono, 0.6% stereo (DX); capture ratio 1.0 dB (local), 1.5 dB (DX); selectivity 60 dB (local), 80 dB (DX); AM suppression 60 dB; i-f response -120 dB; image response -110 dB; spurious response 110 dB; subcarrier rejection 70 dB; stereo separation 52 dB at 1000 Hz (local), 30 dB (DX). AM section: sensitivity 300 μV/m (rod antenna); S/N 50 dB; selectivity 45 dB; image response -75 dB; i-f response -75 dB. Features dual tuning and power level meters (right-channel meter doubles as signal-strength indicator), meters also read tape output; independent input and recorder output select; independent headphone level control and main/rec-out monitor selection; dual tape monitors with two-way dubbing; bass, midrange and treble controls with switchable turnover frequency and defeat; separate volume and variable loudness-compensation controls; adjustable FM muting level; DX/Local/Auto select; recorder-calibration tone; audio muting; dual phono inputs with moving-coil head amp (switchable) on one; FM high-blend and Dolby-adaptor switches. 7¹/₂" H × 24³/₄" W × 19¹/₂" D \$1500

CR-2040 Stereo Receiver

Power amp section: features dc circuitry; left/right peak-delay power meters; LED overload and half-power indicators; two-speaker switching; 120 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.02% THD; power bandwidth 10-50,000 Hz; damping factor 40 at 1000 Hz, 8 ohms. Preamp section: features built-in moving-coil cartridge head amp; bass, presence (mid frequencies), and treble controls with own turnover fre-

quency controls; loudness and balance controls; low and two high filters; -20-dB audio muting; two-way tape dubbing; input selector with separate phono load capacitance switch; input sensitivity/impedance 2.5 mV/100k, 68k, 47k, 33k ohms (phono MM), 100 μV/50 ohms (phono MC), 120 mV/40k ohms (aux. and tape); phono overload 270 mV (MM), 11 mV (MC); frequency response ±0.2 dB from 20-20,000 Hz (phono RIAA), 5-100,000 Hz +0.2/-2 dB (aux. and tape); HD 0.01% (MM), 0.05% (MC); IM dist. 0.02% (aux. and tape); S/N (IHF/new IHF) 95 dB/76 dB (MM), 86 dB/79 dB (MC), 100 dB/81 dB (aux. and tape). Tuner: features J-FET and four-gang tuning capacitor in front end; built-in automatic local/distant i-f selector with LEDs; PLL multiplex ic demodulator; signal-strength (switchable to right power output reading) and FM tuning meters; muting/optimum tuning system lock switch; mode and adaptor switches; FM IHF usable sensitivity 1.6 μV at 300 ohms, 0.8 μV at 75 ohms; 50-dB quieting 3.2 μV (mono), 35 μV (stereo), 25 μV (auto blend); S/N (IHF) 90 dB (mono), 84 dB (stereo); HD at 1000 Hz 0.07% (mono), 0.09% (stereo); frequency response 50-10,000 Hz ±0.4 dB; capture ratio 1.5 dB; alternate channel selectivity (IHF) 82 dB (DX), 48 dB (local); image rejection 80 dB; i-f and spurious rejection 100 dB; stereo separation 50 dB at 1000 Hz; AM tuner usable sensitivity 15 μV. Ebony wood veneer cabinet; 6⁹/₁₆" H × 22³/₁₆" W × 16" D. \$860
CR-1040. Similar to CR-2040 except has separate phono MM/MC selector in place of phono load capacitance selector; no turnover frequency tone controls or LED half-power overload indicator; 80 W/ch continuous under same conditions; power bandwidth 10-40,000 Hz; phono MM input impedance 47k ohms; phono S/N (IHF A/new IHF) 88 dB/81 dB, aux. and tape new IHF S/N 83 dB; 6⁹/₁₆" H × 21¹/₄" W × 15³/₁₆" D \$660
CR-840. Similar to CR-1040 without built-in moving-coil head amp, power output meters, LED overload indicator, and audio muting switch; has one high filter; 60 W/ch under same conditions; phono overload 140 mV; phono frequency response ±0.4 dB from 20-20,000 Hz; phono harmonic dist. 0.02%; S/N (IHF A/new IHF), 94 dB/78 dB (phono), 100 dB/85 dB (aux. and tape); FM 50-dB quieting sensitivity 40 μV for stereo; FM S/N (IHF) 84 dB (mono), 80 dB (stereo); FM HD at 1000 Hz 0.08% (mono), 0.1% (stereo); 6⁹/₁₆" H × 20" W × 15¹/₄" D \$495
CR-640. Similar to CR-840 minus presence tone control, tuner adaptor switch, and optimum tuning system lock with LED; 40 W/ch under same conditions; aux. and tape S/N 86 dB (new IHF); FM image rejection 50 dB; spurious and i-f rejection 80 dB \$395

CR-420 Stereo Receiver

Amplifier section: 22 W/ch continuous power into 8 ohms (20-20,000 Hz) at 0.05% THD and IM dist.; power bandwidth 10-40,000 Hz; frequency response 20-20,000 Hz ± 1.5 dB; phono sensitivity 2 mV; input impedance 50k ohms (phono), 45k ohms (aux., tape); maximum input level (phono) 110 mV; S/N (A-weighted) 91 dB phono (10 mV, shorted), 97 dB aux. Tuner section: FM usable sensitivity 10.3 dBf (1.8 μV); 50-dB quieting sensitivity 16.1 dBf (3.5 μV) mono, 38 dBf (43.5 μV) stereo; FM distortion 0.8% stereo, 0.3% mono (max.); capture ratio 1.0 dB; selectivity 65 dB; AM suppression 56 dB; i-f rejection 75 dB; image rejection 50 dB; spurious response rejection 75 dB; stereo separation 40 dB at 1000 Hz, 30 dB from 50-10,000 Hz; antenna 75 or 300 ohms. AM section: IHF sensitivity 18 μV/m; selectivity 20 dB; S/N 50 dB (at 80 dB/m); image and AM suppression 40 dB; spurious response ratio 50 dB; distortion 0.6%. Separate input and tape out selectors; provision for two speaker pairs; continuously adjustable loudness compensation; relay speaker protectors; click-stop bass and treble; switchable high filter; built-in 10-Hz low filter; FM antenna terminals also serve for AM; combination FM center-channel/AM signal-strength meter. 6³/₁₆" H × 17³/₁₆" W × 12³/₁₆" D \$310
CR-220. Similar to CR-420, but 15 W/ch; maximum phono input level 100 mV; frequency response +1.5/-2.0 dB, 20-20,000 Hz; S/N 90 dB phono, 96 dB tape and aux. FM section: usable sensitivity 11.2 dBf (2.0 μV) mono; 50-dB quieting

sensitivity 17.3 dBf (4 μV) mono, 39.2 dBf (50 μV) stereo; AM suppression 52 dB; capture ratio 1.5 dB; selectivity 60 dB; S/N 70 dB mono, 65 dB stereo; max. mono distortion 0.4%; IM dist. 0.2% mono, 0.4% stereo. Provision for two speaker pairs; continuously variable loudness compensation; built-in subsonic filter; FM muting; single meter for FM center-channel, AM signal-strength. 5³/₁₆" H × 17¹/₁₆" W × 12⁷/₁₆" D \$235

ZENITH

MC7051 Stereo Receiver

Power amp section: features direct-coupled OCL circuitry; two electrolytic capacitors; speaker overload protection circuit; two-speaker switching; 40 W/ch continuous, both channels driven into 8 ohms from 20-20,000 Hz with 0.05% THD and IM dist.; damping factor 40 from 20-20,000 Hz. Preamp: features bass, treble, and balance controls; high and low filters; two-way tape monitoring and dubbing; loudness switch; input selector with LEDs; input sensitivity/impedance 2.5 mV/50k ohms (phono 1, 2, and mic), 150 mV/50k ohms (aux. and tape); phono overload 125 mV at 1000 Hz; frequency response ±1 dB from 30-15,000 Hz (phono RIAA), 20-20,000 Hz ± 1 dB (aux. and tape); S/N (IHF A) 75 dB (phono), 85 dB (aux. and tape). Tuner: features dual-gate MOS FET and four-gang variable capacitor in FM front end; FM muting and de-emphasis switches; signal-strength and tuning meters; mode switch with stereo FM LED; FM usable sensitivity 1.8 μV (mono), 5.5 μV (stereo); 50-dB quieting 3.0 μV (mono), 40 μV (stereo); S/N 70 dB (mono), 65 dB (stereo); dist. 0.3% (mono), 0.5% (stereo); frequency response 30-15,000 Hz +0.6/-2 dB; capture ratio 1.0 dB; alternate channel selectivity 70 dB; spurious rejection 75 dB; image rejection 85 dB; i-f rejection 90 dB; stereo separation 45 dB at 1000 Hz; AM sensitivity 300 μV/m (IHF ferrite antenna), 30 μV (IHF external antenna). 6.01" H × 19.27" W × 14.96" D \$360

MC7030 Stereo Receiver

Power amp section: features direct-coupled OCL circuitry; dual electrolytic capacitors; two-speaker switching; 15 W/ch continuous, both channels dri-



ven into 8 ohms from 20-20,000 Hz with 0.4% THD and IM dist.; damping factor 30 from 20-20,000 Hz. Preamp: features bass and treble controls; low and high filters; source/tape monitor switch; loudness control; input selector with magnetic or ceramic phono inputs and LEDs; input sensitivity/impedance 2.5 mV/50k ohms (magnetic phono), 150 mV/2M ohms (ceramic phono), 150 mV/50k ohms (aux. and tape); phono overload 125 mV at 1000 Hz; frequency response ±1 dB from 50-15,000 Hz (phono RIAA), 20-20,000 Hz ± 1 dB (aux. and tape); S/N (IHF A) 65 dB (phono), 75 dB (aux. and tape). Tuner: features dual-gate MOS FET and three-gang variable capacitor in FM front end; signal-strength and tuning meters; manual FM afc and FM muting switches; mode switch with stereo FM LED; FM usable sensitivity 1.9 μV (mono), 6.0 μV (stereo); 50-dB quieting 4.5 μV (mono), 60 μV (stereo); S/N 70 dB (mono), 65 dB (stereo); dist. 0.3% (mono), 0.5% (stereo); frequency response 30-15,000 Hz +0.6/-2 dB; capture ratio 1.0 dB; alternate channel selectivity 60 dB; spurious rejection 75 dB; image rejection 60 dB; i-f rejection 90 dB; stereo separation 40 dB at 1000 Hz; AM sensitivity 300 μV/m (IHF ferrite antenna), 30 μV (IHF external antenna); 5.31" H × 18.11" W × 11.81" D \$230

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