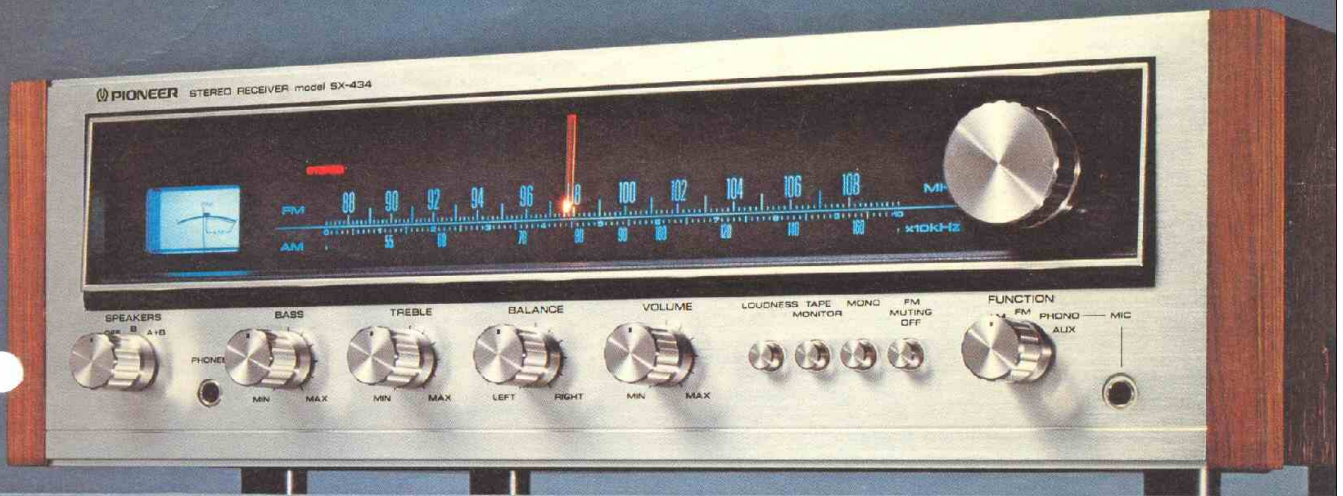


PIONEER

SX-434

15Wx2 RMS stereo receiver with high-performance tuner and direct-coupled OCL power amplifier.



There is a wide range of Pioneer stereo receivers to satisfy the needs and demands of virtually every audio fan. One of the latest, the SX-434, is specifically designed for those who insist on low distortion but who feel that paying for power they don't need is wasteful. The SX-434 has more than enough power, yet is priced to appeal to budget-conscious music lovers. Its FM section provides an excellent 1.9 μ V sensitivity (IHF), a capture ratio of 1.0dB (IHF), selectivity of 60dB (IHF), and superb stereo separation of more than 30dB over a 50 to 10,000Hz range. Advanced electronic circuitry throughout includes a low-noise FET and a frequency-linear 3-gang variable capacitor in the FM front end, exclusive IC and phase-linear ceramic filters in the FM IF section and more. The phono equalizer in the SX-434 is high-fidelity all the way, with RIAA equalization of less than ± 1 dB deviation. The power amplifier circuitry is the pure-complementary direct-coupled OCL type with wide response and power bandwidth. The SX-434 produces 15W+15W continuous RMS power (both channels driven at 8 ohms) with harmonic distortion of less than 0.8% over 40 to 20,000Hz bandwidth. This is enough to drive two pairs of stereo speaker systems individually or simultaneously. Listen and compare. This new Pioneer receiver may just be the value you've been looking for.

PIONEER

SX-434

HIGH-PERFORMANCE FM FRONT END

The Pioneer SX-434 features top-class FM capabilities. The low-noise FET and frequency-linear 3-gang variable capacitor in the FM front end contribute to the excellent sensitivity of $1.9\mu\text{V}$ (IHF), improved image and spurious rejection characteristics and a high signal-to-noise ratio in performance.

FM IF SECTION WITH IC AND CERAMIC FILTERS

State-of-the-art techniques are also employed in the FM IF amplifier of the SX-434. Phase-linear ceramic filters and an advanced IC afford a high selectivity of 60dB (IHF) and a capture ratio of 1.0dB (IHF), figures you'd expect from a tuner or receiver in a higher price category.

FM MUTING SWITCH

Annoying inter-station noise can be cancelled during tuning by the handy FM muting switch.

EXCLUSIVE IC-EQUIPPED AM SECTION

Maximum fidelity and noise-free listening can be enjoyed in the AM band with the IC-equipped AM section of exclusive Pioneer design.

RMS CONTINUOUS POWER 15W x 2

The pure-complementary direct-coupled OCL design of the power amplifier section in the SX-434 assures wide frequency response, wide power band-

width and satisfactorily low distortion. Continuous RMS power over the 40 to 20,000Hz frequency bandwidth (measured with both channels driven into 8-ohm loads) is a stable $15\text{W} + 15\text{W}$ with less than 0.8% harmonic distortion.

TWO-PAIR STEREO SPEAKER FACILITIES

With its ample power provisions, the SX-434 drives up to two independent pairs of stereo speaker systems, one pair at a time or both together. Ideal for powering those remote speakers.

PRECISE RIAA EQUALIZATION

The two-stage direct-coupled NF (Negative Feedback) design of the phono equalizer in the SX-434 enables audio reproduction of records within $\pm 1\text{dB}$ deviation from the RIAA characteristic curve.

CLICK-STOP TONE CONTROLS

The BASS and TREBLE tone controls are the click-stop type for convenience in adjustment.

OTHER FEATURES

The control capabilities of the SX-434 are ideal for the average hi-fi set-up: it handles a turntable, tape deck, microphone, AUX and has an output jack for stereo headphone. The provided LOUDNESS contour switch enhances frequency response at low-volume levels.

SX-434 SPECIFICATIONS

AMPLIFIER SECTION

Continuous Power Output

20Hz to 20KHz

(Both channels driven):

12 watts + 12 watts (8 ohms),

40Hz to 20KHz

(Both channels driven):

15 watts + 15 watts (8 ohms),

1KHz (Both channels driven):

16 watts + 16 watts (8 ohms),

18 watts + 18 watts (4 ohms)

Harmonic Distortion:

Less than 0.8%

(continuous power output)

Less than 0.1%

(1 watt + 1 watt, power output)

Intermodulation Distortion:

Less than 0.8%

(continuous power output)

Less than 0.1%

(1 watt + 1 watt, power output)

Power Bandwidth:

10Hz to 70KHz (H.D. 0.8%)

(IHF, both channels driven)

Output Speaker:

A, B, A + B (4 to 16 ohms)

Headphone:

4 to 16 ohms

Damping Factor:

More than 25 (1KHz, 8 ohms)

Residual Hum & Noise:

Less than 0.5mV

(8 ohms, pre & power amplifier)

Input Sensitivity/Impedance

PHONO:

2.5mV/50 Kohms

PHONO Overload Level (rms/P-P):

100mV/280mV

MIC:

10mV/90 Kohms

AUX:

150mV/80 Kohms

TAPE PB:

150mV/80 Kohms

TAPE PB (DIN connector):

150mV/80 Kohms

Output Level/Impedance

TAPE REC:

150mV

TAPE REC (DIN connector):

30mV/80 Kohms

Frequency Response

PHONO (RIAA equalization):

30Hz to 15KHz $\pm 1\text{dB}$

AUX, TAPE PB:

30Hz to 25KHz $\pm 1\text{dB}$

Tone Control

BASS:

+9dB, -8dB (100Hz)

TREBLE:

+5dB, -7dB (10KHz)

Loudness Contour:

+10dB (100Hz), +5dB (10KHz)

(volume control set at -40dB position)

Hum & Noise (IHF, short-circuited A network):

PHONO:

More than 70dB

MIC:

More than 65dB

TUNER, AUX, TAPE PB:

More than 90dB

FM TUNER SECTION

Usable Sensitivity (IHF):

$1.9\mu\text{V}$

Capture Ratio (IHF):

1.0dB

Selectivity (IHF):

60dB

Signal-to-Noise Ratio:

70dB

Image Rejection:

60dB (98MHz)

IF Rejection:

90dB (98MHz)

Spurious Rejection:

75dB

AM Suppression:

50dB

Harmonic Distortion:

Mono: less than 0.2%,

Stereo: less than 0.4%

Frequency Response:

20Hz to 15KHz +0.2dB, -2.0dB,

50Hz to 10KHz +0.2dB, -0.5dB

Stereo Separation:

More than 40dB (1KHz),

More than 30dB (50Hz to 10KHz)

Sub Carrier Suppression:

40dB

Antenna Input:

300 ohms balanced and 75 ohms unbalanced

Muting:

ON-OFF

AM TUNER SECTION

Sensitivity:

$300\mu\text{V/m}$ (IHF, ferrite antenna),

$15\mu\text{V}$ (IHF, ext. antenna)

Selectivity:

35dB

Signal-to-Noise Ratio:

50dB

Image Rejection:

40dB

IF Rejection:

50dB

SEMICONDUCTORS

FET:

1

ICs:

3

Transistors:

27

Diodes:

13

MISCELLANEOUS

Power Requirements:

U.S.A. and Canada model;
120V 60Hz only or 220V 50Hz only
or 110, 120, 130, 220, 240V (switchable
FM de-emphasis) 50-60Hz

Power Consumption:

75 watts (KCU), 110 watts

Dimensions:

Without package:
430(W) x 140(H) x 347(D) mm
16-15/16(W) x 5-1/2(H) x 13-21/32(D) inches
With package:
512(W) x 223(H) x 430(D) mm
20-5/32(W) x 8-25/32(H) x 16-15/16(D) inches
Without package: 8.1kg/17 lb. 14 oz.
With package: 9.1kg/20 lb. 1 oz.

Weight:

NOTE: Specifications and design subject to possible modification without notice.



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