

PIONEER

QA-800A

A four-channel integrated amplifier for the creation of a living presence sound field from a variety of four-channel program sources.



This new Pioneer integrated amplifier is your musical passport to the stunning adventure of four-channel stereo. A total capability unit that provides up to 204 watts of musical power at 4 ohms, the QA-800A permits the creation of a brilliant concert hall acoustical field in your own listening room without the additional cost of multiple stereo accessories. Its total of four amplifiers, and matrix decoding circuitry, means that you may create four-channel sound from any matrixed four-channel source on the market, as well as discrete four-channel sources and conventional two-channel records and tapes. The QA-800A, thus, is capable of decoding the popular SQ matrix records, as well as many other different four-channel matrix systems, although none of these systems have distinct compatibility. And because of this versatility, it becomes a solid sound investment for the future. The rich sound of four-channel stereo is here now. And Pioneer's QA-800A gets you into this total sound picture better than any other unit of its kind or price.

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QA-800A

SQ AND REGULAR MATRIX DECODER

Today there are almost as many matrix four-channel systems as there are manufacturers—an unfortunate situation since none of these matrix systems are compatible with the other. Pioneer's choice of matrix systems for the new QA-800A was based on research into all the many kinds of matrix systems—and the decoding circuitry employed in this unit goes a long way toward solving the four-channel matrix confusion for the audio fan. Pioneer's matrix system is actually a double system. One decoder is the Regular Matrix type, which enable decoding of most kinds of systems now available. The other is the SQ system decoder with unique front/back logic circuit, for exclusive four-channel sound reproduction of SQ matrix system-encoded sound program. This front/back logic circuit, employed in the QA-800A, produces clear sound localization and quite natural sound reproduction. The QA-800A has additional versatility, too, beyond its matrix decoding function. You may use this unit for discrete four-channel program sources, and also for conventional two-channel sound sources. All in all, there's really not a matrixed four-channel sound source now on the market that can't be used with Pioneer's QA-800A.

WIDE DYNAMIC RANGE HEADAMP SECTION

The QA-800A's head amp features an extremely wide dynamic range owing to its low noise, long-life silicon transistors and two-stage direct coupled circuit NFB equalizer. The result of matching these components is extremely low noise and a wide dynamic range, plus outstanding stability.

CLICK STOP TYPE TONE CONTROL

Use of low noise silicon transistors and click stop tone controls means that

precise setting of all controls is possible with the QA-800A. Separate controls for both front and rear speakers, when the unit is used for four-channel stereo, are also provided.

BIG POWER AND WIDE POWER BANDWIDTH

The power amp section of the QA-800A features a quasi-complementary single ended push-pull circuit utilizing all high-performance silicon transistors. The unit provides a generous continuous power output of 20 watts x 4 (4 channels driven at 8 ohms), and is complemented by a remarkable 15 to 50,000Hz power bandwidth (IHF, 8 ohms, 4 channels driven).

EXCLUSIVE PIONEER LEVEL CONTROLS

In addition to the master volume control of the QA-800A, which adjusts the level of all four channels simultaneously, the unit is provided with four separate level controls, one for each channel. These controls make overall balance adjustments extremely easy, and they are especially useful when front and rear speakers of different sensitivities are used. The controls also permit balance adjustments for listening from any part of the room, not only the exact center.

VERSATILE INPUT TERMINALS

The QA-800A includes two sets each of Phono, Tape and Aux inputs. With the two Phono connections it is possible to compare two different stereo cartridges. The pair of tape inputs allows you to use both open reel and cassette decks simultaneously and accomplish tape-to-tape duplication with ease. There is also a rear speaker selector that permits a choice of two pairs of speaker systems.

SPECIFICATIONS

SEMICONDUCTORS

FETs:	2
Transistors:	65
Diodes:	15

PREAMPLIFIER SECTION

Output Voltage:	500mV (rated output)
Harmonic Distortion:	Less than 0.08%
Frequency Response:	20 to 40,000Hz, ± 1 dB
Input Sensitivity/Impedance (1KHz, for rated output):	PHONO 1 MAG; 2.5mV/50 Kohms PHONO 2 MM; 2.5mV/50 Kohms TUNER; 200mV/100 Kohms (4 CH) AUX 1, 2; 200mV/100 Kohms (4 CH) TAPE MONITOR 1, 2; 200mV/100 Kohms (4 CH)
Recording Output:	TAPE REC 1, 2 (pin jack); 200mV (4 CH)
BASS Control:	-10dB, +10dB/100Hz
TREBLE Control:	-10dB, +10dB/10KHz
LOW Filter:	-10dB/50Hz (6dB/oct.)
HIGH Filter:	-10dB/10KHz (6dB/oct.)
Equalization Curve:	PHONO; RIAA S.T.D.
Loudness Contour:	+11dB/100Hz, +7dB/10KHz with volume control set at -40dB position.
Muting:	-20dB
Hum and Noise (IHF):	PHONO; More than 80dB TUNER, AUX; More than 90dB

POWER AMPLIFIER SECTION

Music Power Output (IHF):	204 watts (4 ohms), 144 watts (8 ohms)
Continuous Power Output (1KHz, 2 channels driven):	34 watts+34 watts/34 watts+34 watts (4 ohms) 27 watts+27 watts/27 watts+27 watts (8 ohms)

Continuous Power Output (1KHz, 4 channels driven):	24 watts x 4 (4 ohms), 20 watts x 4 (8 ohms)
Power output in the range of 20 to 20,000Hz (2 channels driven):	23 watts+23 watts/23 watts+23 watts (8 ohms, harmonic distortion less than 0.5%)
Harmonic Distortion:	Less than 0.5% (continuous power output)
Intermodulation Distortion:	Less than 0.8% (continuous power output)
Power Bandwidth (IHF) (2 channels driven):	10 to 50,000Hz (8 ohms, harmonic distortion less than 0.5%)
Power Bandwidth (IHF) (4 channels driven):	15 to 50,000Hz (8 ohms, harmonic distortion less than 0.5%)
Frequency Response:	8 to 70,000Hz, ± 1 dB
Input Sensitivity/Impedance (1KHz, continuous power output):	500mV/50 Kohms
Speakers:	4 to 16 ohms
Damping Factor:	40 (8 ohms, 1KHz)
Headphone Jacks:	Front and Rear

MISCELLANEOUS

Power Requirements:	U.S.A. and Canada model; 120V 60Hz only or 110V, 120V, 130V, 220V, 240V (switchable) 50-60Hz
Power Consumption:	290 watts (max.)
AC Outlets:	Switched...1, Unswitched...1
Dimensions (overall):	16-15/16(W) x 5-7/16(H) x 13-1/4(D) inches 430(W) x 138(H) x 337(D)mm
Weight:	Without package 24 lb./10.9kg
Furnished Parts:	Pin plug...4, Speaker plug...6, Polishing cloth...1, Connecting cords...2, Operating Instructions...1

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



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