Pioneer

DEQ-2000A

Class-D 4-Channel DSP Amplifier Upgrade your factory car audio without replacing the original head unit. The Pioneer DEQ-2000A DSP Processor delivers premium sound performance while seamlessly integrating with your factory audio system. Featuring advanced tuning functions including Time Alignment, Equalizer, and Speaker Output Level Control, the DEQ-2000A lets you optimize your vehicle's acoustics for a clearer, more immersive listening experience. Easily fine-tune your sound using the intuitive smartphone or PC interface to achieve audio tailored to your vehicle and personal preferences.

Specifications

Max.power output	80 W x 4(at 14.4 V,4 Ω)
Frequency Response	20 Hz to 40 kHz (+0 dB, -3 dB)
Impedance	4 Ω (2 Ω to 8 Ω allowable)
Speaker Level Input	-60 dB □ +0 dB (0.1 dB/step)
Dimensions (W x H x D)	200 mm x 47 mm x 169 mm
Power Source	14.4 V DC (10.5 V to 16.0 V allowable)
Grounding System	Negative type
Current Consumption	15 A (at continuous power,4 Ω)
Average Current Consumption	4.2 A (4 Ω for four channels)
Fuse	15 A
Weight	1.60 kg (Leads for wiring not included)
Continuous Power Output	40 W x 4 (at 14.4 V, 4 Ω, 1 kHz,
Preout Output Level (MAX)	4.0 V
Signal to Noise Ratio (Speaker Output)	90 dB (Speaker output) (IHF-A network) & 0.1 % (Speaker output) (10 W, 1 kHz)
Signal to Noise Ratio (RCA Output)	105 dB (RCA output) (IHF-A network) & 0.05 %(RCA output) (0 dBs, 1 kHz)
Distortion (RCA Output)	0.05 % (RCA output) (0 dBs, 1 kHz)
Distortion (Speaker Output)	0.1 % (Speaker output)(10 W, 1 kHz)
Input Sensitivity (RCA Output)	0.2 V to 4 V
Input Sensitivity (Speaker Output)	4 V to 16 V
Maximum Input Level/Impedance (RCA Output)	4 V / 10 kΩ

Maximum Input Level/Impedance (Speaker Output)	16 V / 8 or 22 kΩ
Sampling Rate	96 kHz / 24 bit
A/D Converter	32 bit
D/A Converter	24 bit
Phase	NORMAL / REVERSE
Equalizer Type	31-Band Graphic Equalizer / Parametric Equalizer
Equalizer Frequency	20 Hz ～ 20 kHz (1 Hz/step)
Equalizer Gain	-18dB ~ ＋18dB (0.1 dB/step)
Equalizer Q-Factor	0.404 ～ 28.852
Time Alignment	0 cm ～ 680 cm (0.35 cm/step), 0 inch ～ 268 inch (0.14 inch/step) & 0 ms ～ 20 ms (0.01 ms/step)
Filter (Crossover Frequency)	20 Hz ～ 40 kHz (1 Hz/step)
Filter (Mode and Slope) - Butterworth	-48 / -42 / -36 / -30 / -24/ -18 / -12 / -6 (dB/oct)
Filter (Mode and Slope) - Bessel	-48 / -42 / -36 / -30 / -24/ -18 / -12 / -6 (dB/oct)
Filter (Mode and Slope) - Linkwitz Riley	-48 / -36 / -24/ -12 (dB/oct)
Preset EQ	Flat / S.Bass/ Powerful / Natural / Vocal
Inputs	Speaker inputs(4 ch) / RCA inputs(4 ch) / Bluetooth audio
Outputs (RCA)	6 ch
Outputs (Speaker)	4 ch
Version	Bluetooth 5.1
Output Power	+4 dBm MAX. (Power class 2)
Frequency Band(s)	2402 MHz to 2480 MHz
Bluetooth Profiles	A2DP (Advanced Audio Distribution Profile) 1.3
Audio Codec	SBC, AAC
Power Supply/Speaker Cord	x1
Extension Cord	x1
Parking Brake Cord	x1

Bracket	x4
Mounting Screw (4 mm x 18 mm)	x4
Mounting Screw (2.6 mm x 6 mm)	x8
Bluetooth Antenna	x1
USB Cable (Type-B)	x1