

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 |