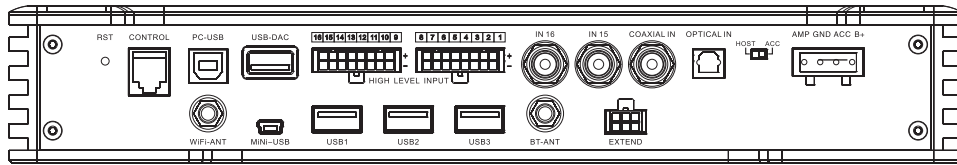


FUNCTIONAL DESCRIPTION

P5 DSP Ultra



RST

Reset the device by pressing this button with a pen or a needle in case of a malfunction or software crash.

CONTROL

Connect this terminal with cables for the remote controller.

PC - USB

This USB input is suited for connecting a PC/laptop to set up the DSP functions by managing the Goldhorn software.

USB - DAC

Users can play audio signal from phones with OTG function via USB connection, with sampling rates up to 192KHz/32bit.

IN 1 ~ IN 16

Connect the sixteen high level inputs with suitable loudspeaker cables.

IN 15 & IN 16

The RCA inputs capture audio signals from other aftermarket source units (e.g. CD players).
Note: The RCA inputs IN 15 & IN 16 and the high level inputs IN 15 & IN 16 cannot be used at the same time.

OPTICAL & COAXIAL INPUT

The inputs accept PCM stereo signals up to a sampling rate of 192KHz/24 bit.

ACC / HOST (Mode for Power Selection)

ACC

Select this method if you have connected a turn - on signal at the ACC terminal.

HOST

This method only works if you use the device's high level inputs. The device is activated by connecting an amplified headunit output to the (IN 1+/IN 1-) input channel.

POWER

AMP

Connect the terminal with suitable cables to control external amplifiers.

GND

Connect the GND terminal with a negative battery cable or a cable connected to the vehicle's chassis.

ACC

Connect a turn - on signal or the turn - on remote signal of your headunit with this terminal. Hereby the device is turned on or off with your headunit.

B+

Connect the B+ terminal with the positive pole of the vehicle's battery.

Wi - Fi ANT

This port is for Wi - Fi antenna.

Mini - USB

This terminal is for firmware upgrade.

USB

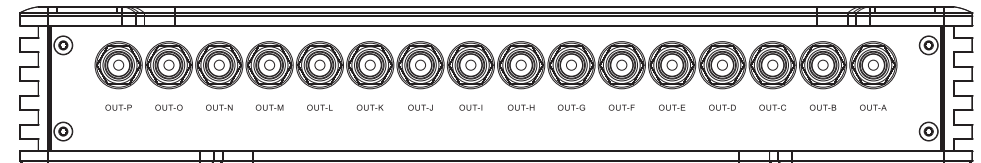
Connect the four USB 2.0 HOST terminals with external USB/portable SSD, or cables for the panel control with display.

BT ANT

This port is for the Bluetooth® antenna.

EXTEND

Connect this terminal with cables for steering wheel control (limited car make/model only).



OUT A ~ OUT P

The sixteen RCA outputs provide other devices with the modified output signals.

Technical Specifications

| | |
|------------------------|--|
| Voltage | 11-16V |
| Turn-On | ACC/high level inputs(IN 1+/IN 1-) |
| Inputs | 16 x High Level Inputs 16Vrms Max |
| | 2 x AUX Inputs 3Vrms Max |
| | 1 x Optical Input 1 x Coaxial Input (up to 192KHz/24bit) |
| | Input Impedance : 6Ω |
| Outputs | 16 x RCA Outputs 11Vp-p(4Vrms)/47KΩ |
| DSP chip | 3-core Analog Devices™ 32 bit, 295 Mhz, 192KHz Sampling Rate 3.6 Billion MAC Operations per Second |
| Audio Inputs Features | Equalizer Filter Type : PE/LS/HS/Slope 1 & 2 AP 5-Band Parametrical Equalizer : ±20 dB, 0.1 dB Steps Q : 0.5~15 0.1 Time Alignment Delay : 0~10ms/0.005 ms Steps |
| Audio Outputs Features | Crossover Frequency : 1 Hz step @ 20 Hz-20 KHz Master Gain : 0~60 dB Channel Gain : -20~+5 dB Phase Shift : Positive phase/Inverted phase Input Mixer, Subwoofer Control Equalizer Filter Type : PE/LS/HS/Slope 1 & 2 AP 30-Band Parametrical Equalizer : ±20 dB, 0.1 dB Steps Q : 0.5~15 0.1 Crossover Filter Type and Slope : Bessel / Butterworth @ -6 /-12/-18/-24/-30/-36/-42/-48 dB Linkwitz @ -12/-24/-36/-48 dB Time Alignment Delay : 0~20ms/0.005 ms Steps Variable Phase Rotation from 0° to 360° (step : 1°) |
| Frequency Response | 10Hz~80KHz |
| Other Features | Error Protection System 8 Presets for Sound Setups |
| USB | USB2.0 HOST x 3 USB Type B x 1 MiNi USB x 1 USB-DAC x 1 |
| Extend | Steering wheel controller terminal x 1 |
| Wi-Fi | 802.11b/g/n |
| Music Formats | Hi-res : DFF/DSF/DSD (up to 256) uncompressed : WAV/FLAC/APE/AIFF compressed : MP3/AAC/OGG/WMA |
| Sampling Rate | PCM : 44.1KHz~768KHz/16~32bit DSD : DSD64/DSD128/DSD256 |
| Bluetooth® Receiver | APT-X/APTX HD/AAC/SBC |
| Color | Black |
| Dimensions (L×W×H) | 303 x 231 x 50 mm |

USER'S MANUAL

Goldhorn DSD Player with DSP P5 DSP Ultra

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