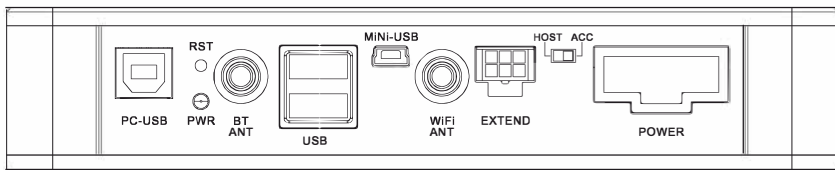


FUNCTIONAL DESCRIPTION

P1 DSPA



PC - USB

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

RST

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

PWR

If the LED lights up in blue, the player is ready for operation.

BT ANT

This port is for the Bluetooth® antenna.

USB

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

Mini - USB

This terminal is for firmware upgrade.

Wi - Fi ANT

This port is for Wi-Fi antenna.

EXTEND

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

ACC / HOST (Mode for Power Selection)

ACC

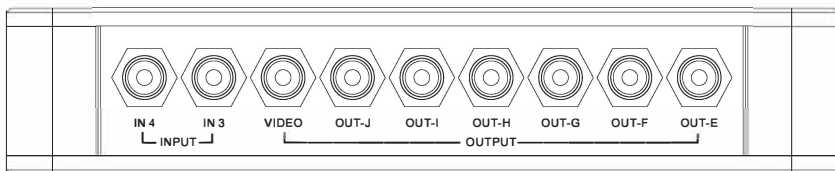
Select this method if you have connected a turn-on signal at the ACC terminal.

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

Connect this terminal with the player's wire harness (included) for power supply and the four high level inputs.

**IN 3 & IN 4**

The two RCA inputs capture audio signals from other aftermarket source units (e.g. CD players).

Note: The RCA inputs IN 3 & IN 4 and the high level inputs IN 3 & IN 4 cannot be used at the same time.

VIDEO OUT

The RCA output provides CVBS signals for the headunit, so songs' names and operations can be displayed on the screen of a headunit with the video input.

OUT E ~ OUT J

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

Technical Specifications

Integrated DSP for P1 DSPA /P2 DSPA Pro /P3 DSPA Plus/P2 DSP Pro	
DSP chip	Analog Devices™ 32 bit, 295 Mhz, 48KHz Sampling Rate 1.2 Billion MAC Operations per Second
Audio Input Features	Equalizer Filter Type : PE/LS/HS/AP 5-Band Parametrical Equalizer : ±15 dB, 0.1 dB Steps Q : 0.5~15 0.1 Time Alignment Delay : 0~10 ms/0.02 ms Steps
Audio Output 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/AP 31-Band Parametrical Equalizer : ±15 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 : 0~20 ms/0.02 ms Steps Variable Phase Rotation from 0° to 360° (step : 1°)
Frequency Response	20Hz~40KHz
Signal-to-Noise Ratio (A-weighted)	Analog Input: 106 dB Digital Input: 111 dB
THD	Analog Input <0.003% Digital Input <0.003%
Input Sensitivity	Low Level : 3V High Level : 10-16V
Other Features	Error Protection System 8 Presets for Sound Setups

※ The information in this manual is subject to be changed without notice.

※ Technical changes and errors reserved.

※ All trademarks and trade names are the property of their respective owners.

Technical Specifications

	P1 DSPA	P2 DSPA Pro
Voltage	11-16V	
Turn-On	ACC/ high level inputs(IN 1+/IN 1-)	
Inputs	4 x High Level Inputs 10Vrms Max	8 x High Level Inputs 16Vrms Max
	2 x AUX Inputs 3.2Vrms Max	2 x AUX Inputs 3Vrms Max
	—	
	Input Impedance : 6Ω	
Outputs	4 x High Level Outputs 65W/4ΩMax	8 x High Level Outputs 80W/4ΩMax
	6 x RCA Outputs 17Vp-p(6Vrms)/47KΩ	8 x RCA Outputs 17Vp-p(6Vrms)/47KΩ
	1 x CVBS video output (NTSC)	
USB	USB2.0 HOST x 2	USB2.0 HOST x 3
	USB Type B x 1	
	MINI USB 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/AAC/SBC	
Color	Gold	Red
Dimensions (L×W×H)	180 x 140.5 x 36 mm	217 x 170 x 43 mm