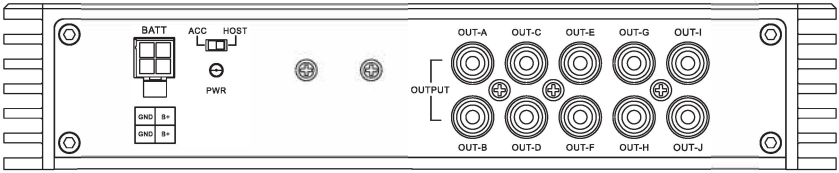
FUNCTIONAL DESCRIPTION

DSPA 810 Pro

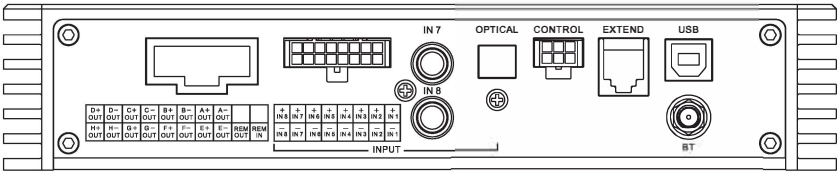


POWER
BATT
Same as GND and B+. It is an extra socket to increase electricity.
GND
Connect the GND terminal with a negative battery cable or a cable connected to the vehicle's chassis.
B+
Connect the B+ terminal with the positive pole of the vehicle's battery.

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

ACC / HOST(Mode for Power Selection)
ACC
Select this method if you have connected a turn -on signal at the REM IN 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.

OUT A ~ OUT J
The ten RCA outputs provide other devices with the modified output signals.



OUT A ~ OUT H
The eight high level outputs provide speakers and subwoofers with amplified audio signals. (UNBRIDGEABLE!)
REM IN
Connect a turn-on signal or the turn-on remote signal of your headunit with this terminal. Here by the device is turned on or off with your headunit.
REM OUT
Connect the terminal with suitable cables to control external amplifiers.

IN 1 ~ IN 8
Connect the eight high level inputs with suitable loudspeaker cables.

IN 7 & IN 8
The RCA inputs capture audio signals from other aftermarket source units (e.g. CD players).

OPTICAL
The input accepts PCM stereo signals up to a sampling rate of 192KHz/24 bit.

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

EXTEND
Connect this terminal with cables for the remote controller.

BT ANT
This port is for the Bluetooth® antenna.

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

DSPA 810 Pro	DSPA 816 Pro
ADAU1450 Analog Devices™	ADAU1452 Analog Devices™
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	
Equalizer Filter Type : PE/LS/HS/AP 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 Q : 0.5~15 0.1	
Variable Phase Rotation from 0° to 360° (step : 1°)	
31-Band Parametrical Equalizer : ±15 dB, 0. 1 dB Steps	
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 : 0~15 ms/0.02 ms Steps	Time Alignment Delay : 0~20 ms/0.02 ms Steps
Ti ADC/DAC	
20Hz~40KHz	
1 x USB Type B for PC Software	
1 x Remote	
APTX HD/APTX/AAC/SBC	
Error Protection System 8 Presets for Sound Setups	
Black	
193 x 145.6 x 40.5 mm	217 x 170 x 43 mm

DSPA 810 Pro	DSPA 816 Pro
10V-16V	
ACC/ high level inputs(IN 1+/IN 1-)	
8 x High Level Inputs	
12V Max	16V Max
2 x RCA Inputs	
3V Max	
1 x Optical Input (up to192KHz/24bit)	1 x Optical Input/1 x Coaxial Input (up to192KHz/24bit)
6Ω	
8 x High Level Outputs	
30W/4Ω/ch RMS 65W/4Ω/ch Max. THD+N : <-70 dB S/N : >100 dB	50W/4Ω/ch RMS 80W/4Ω/ch Max. THD+N : <-70 dB S/N : >100 dB
10 x RCA Outputs	8 x RCA Outputs
Voltage : 5.6V THD+N : <-95 dB S/N : >108 dB	