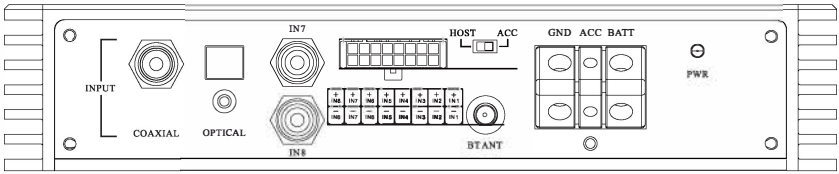
FUNCTIONAL DESCRIPTION

DSPA 816 Pro



PWR
If the LED lights up in blue, the player is ready for operation.If the blue color turns into flashing red, the temperature for the amplifier inside becomes too high. When the red color continues to exist, the amplifier is automatically turned off to protect the device. Please note that users can only turn on the player again when it is totally cooled down.

POWER
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.
BATT
Connect the BATT terminal with the positive pole of the vehicle's battery.

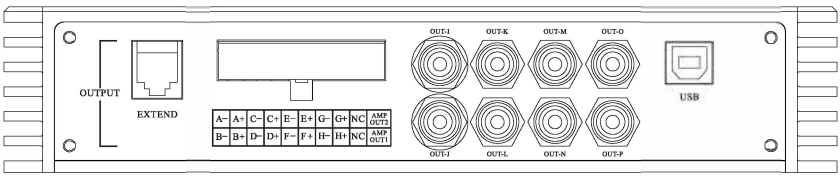
ACC / HOST(Mode for Power Selection)
ACC
Select this method if you have connected a turn-on signal at the REM IN terminal.
HOST
This method only works if you use the device's high level inputs. The device is activated by connecting an amplified headunit output to the (IN 1+/IN 1-) input channel.

BT ANT
This port is for the Bluetooth® antenna.

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).
Note: The RCA inputs IN 7 & IN 8 and the high level inputs IN 7 & IN 8 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.



EXTEND
Connect this terminal with cables for the remote controller.

OUT A ~ OUT H
The eight high level outputs provide speakers and subwoofers with amplified audio signals. (UNBRIDGEABLE!)
AMP OUT 1 & AMP OUT 2
Connect the two terminals with suitable cables to control external amplifiers.

OUT I ~ OUT P
The eight RCA outputs provide other devices with the modified output signals.

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	