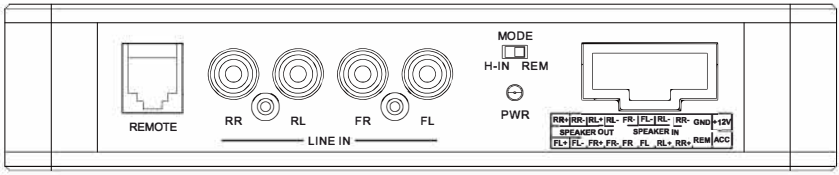
FUNCTIONAL DESCRIPTION

DSPA 406



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

POWER
+12V
Connect the +12V terminal with the positive pole of the vehicle's battery.
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.
REM
This terminal can be connected with the REM terminal of another device (e.g.an amplifier) to provide a turn-on signal.

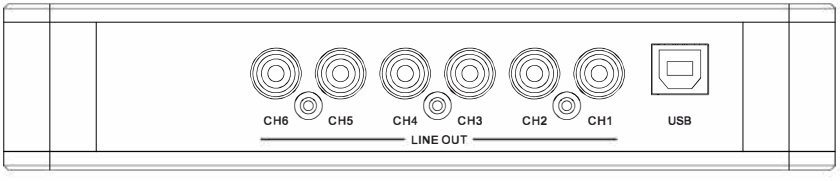
SPEAKER IN (FL/FR/RL/RR)
Connect the four high level inputs with suitable loudspeaker cables.

SPEAKER OUT (FL/FR/RL/RR)
Connect the four high level outputs with suitable loudspeaker cables.

Mode for Power Selection
REM
Select this method if you have connected a turn-on signal at the ACC terminal.
H-IN
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.
Note: Power on by ACC is recommended. In case there is no ACC signal on the vehicle, choose H-IN as an alternative solution.

FL/FR/RL/RR LINE IN
Connect the four RCA inputs with the preamp outputs of the headunit or an aftermarket source unit accordingly by using appropriate audio signal cables.
Note: The four RCA inputs and the four high level inputs cannot be used at the same time.

REMOTE
Connect this terminal with cables for the remote controller.



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

CH 1 ~ CH 6
The six RCA outputs provide other devices with the modified output signals.

Technical Specifications

	DSPA 206	DSPA 406
DSP chip	ADAU1701 Analog Devices™	ADAU1450 Analog Devices™
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	—	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°)
	EQ Band : 15-band EQ for A/B channels; 10-band EQ for C/D channels; 5-band EQ for E/F channels	31-Band Parametrical Equalizer : ±15 dB, 0. 1 dB Steps
	Crossover Filter Type and Slope : Bessel / Butterworth @ -6 /-12 dB Linkwitz @ -12 dB	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 : 0~5 ms/0.02 ms Steps	Time Alignment Delay : 0~20 ms/0.02 ms Steps
Signal Converters	Ti ADC/DAC	
Frequency Response	20Hz~40KHz	
USB	1 x USB Type B for PC Software	
Remote Control	1 x Remote	
Bluetooth® Receiver	APTX/AAC/SBC	APTX HD/APTX/AAC/SBC
Other Features	Error Protection System 8 Presets for Sound Setups	
Color	Black	
Dimensions (L×W×H)	180 x 130 x 41 mm	180 x 129 x 36 mm

Technical Specifications

	DSPA 206	DSPA 406
Voltage	10V-16V	
Turn-On	ACC/ high level inputs(IN 1+/IN 1-)	
High Level Inputs	4 x High Level Inputs	
High Level Inputs Sensitivity	10V Max	12V Max
RCA Inputs	2 x RCA Inputs	4 x RCA Inputs
Low Level Inputs Sensitivity	2.3V Max	2.8V Max
Digital Inputs	—	
Input Impedance	6Ω	
High Level Outputs	4 x High Level Outputs	
High Level Outputs Voltage	50W/4Ω Max.	30W/4Ω/ch RMS 65W/4Ω/ch Max. THD+N : <-70 dB S/N : >100 dB
RCA Outputs	6 x RCA Outputs	
RCA Outputs Voltage	—	Voltage : 6V THD+N : <-95 dB S/N : >105 dB