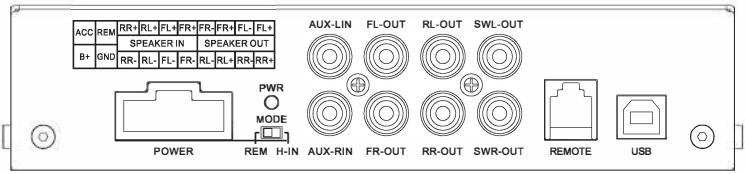
FUNCTIONAL DESCRIPTION

DSPA 206



POWER

B+

Connect the B+ 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.

PWR

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

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.

AUX L / R IN
Connect the two AUX inputs with the preamp outputs of the headunit or an aftermarket source unit accordingly by using appropriate audio signal cables.

FL/FR/RL/RR/SWL/SWR OUT
Connect the six high level outputs with suitable loudspeaker cables.

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.

Technical Specifications

<table>
<tr><th></th><th>DSPA 206</th><th>DSPA 406</th></tr>
<tr><td>DSP chip</td><td>ADAU1701
Analog Devices™</td><td>ADAU1450
Analog Devices™</td></tr>
<tr><td>Audio Input Features</td><td>—</td><td>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</td></tr>
<tr><td rowspan="6">Audio Output Features</td><td>—</td><td>Equalizer Filter Type : PE/LS/HS/AP</td></tr>
<tr><td colspan="2">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</td></tr>
<tr><td>—</td><td>Variable Phase Rotation
from 0° to 360° (step : 1°)</td></tr>
<tr><td>EQ Band :
15-band EQ for A/B channels;
10-band EQ for C/D channels;
5-band EQ for E/F channels</td><td>31-Band Parametrical Equalizer :
±15 dB, 0. 1 dB Steps</td></tr>
<tr><td>Crossover Filter Type and Slope :
Bessel / Butterworth @ -6 /-12 dB
Linkwitz @ -12 dB</td><td>Crossover Filter Type and Slope:
Bessel / Butterworth @ -6 /- 12/- 18/
-24/-30/-36/-42/-48 dB
Linkwitz @ - 12/-24/-36/-48 dB</td></tr>
<tr><td>Time Alignment Delay :
0~5 ms/0.02 ms Steps</td><td>Time Alignment Delay :
0~20 ms/0.02 ms Steps</td></tr>
<tr><td>Signal Converters</td><td colspan="2">Ti ADC/DAC</td></tr>
<tr><td>Frequency Response</td><td colspan="2">20Hz~40KHz</td></tr>
<tr><td>USB</td><td colspan="2">1 x USB Type B for PC Software</td></tr>
<tr><td>Remote Control</td><td colspan="2">1 x Remote</td></tr>
<tr><td>Bluetooth® Receiver</td><td>APTX/AAC/SBC</td><td>APTX HD/APTX/AAC/SBC</td></tr>
<tr><td>Other Features</td><td colspan="2">Error Protection System
8 Presets for Sound Setups</td></tr>
<tr><td>Color</td><td colspan="2">Black</td></tr>
<tr><td>Dimensions (L×W×H)</td><td>180 x 130 x 41 mm</td><td>180 x 129 x 36 mm</td></tr>
</table>

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