



PROJECT 4i
4in-6out DSP AMPLIFIER



MANUAL BOOK

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Main Features

- Double layer circuit board design, Built-in 6 channel professional digital audio signal processor.
- Support 4-Channel high level signal input; 4-Channel RCA input; Bluetooth 5.0: digital input; USB input.
- ADI High performance audio processor: Up to 294.912MHz, 32-Bit sigma DSP core, 48 Channel, 32-Bit digital input/output, Sampling rate up to 192KHz.
- Analog to digital converter sampling rate up to 96KHz/24Bit; Digital to Analog converter sampling rate up to 192KHz/24Bit.
- 31 Band EQ; Windows PC software tuning; Smartphone APP wireless tuning.
- 2 turn ON/OFF control mode: HIGH/ACC.
- Intelligent protection circuit design: Short-circuit protection; Overload protection; Overheat protection.
- Equipped with dedicated wire harness interface to ensure high power output; Support specific wiring harness connection for fast and simple plug and play installation.
- High quality class AB circuit design ensures lower distortion and higher signal-to-noise ratio.
- Professional tuning software with full function. Support 5 presets data stored in the DSP.

ATTENTION

The product can ensure personal safety in design and production, But incorrect use will cause an accidents such as damage the machine or cause a fire. In order to ensure safety, The above precautions must be observed during installation, Operation and maintenance.

Technical Specification

Power Supply

| | |
|----------------------|-------------------|
| Working voltage : | DC 6.5 -18V 0.35A |
| Idling current : | <0.26mA 7.2-18V |
| Standby current : | DC12.8V (380mA) |
| Remote IN voltage : | 7.2-18V |
| Remote OUT voltage : | DC12.8V (380mA) |

Signal Processor

| | |
|--|-------------|
| Distortion - THD @ 1 KHz, 1 Vrms Output : | 0.05 % |
| Bandwidth@ -3 dB : | 20 - 22K Hz |
| S/N ratio@ A weighted (High level input) : | 85dB |
| Channel Separation@ 1KHz : | 100 dB |
| Input sensitivity (High Level) : | 500mV - 11V |
| Input sensitivity (Low Level) : | 500mV - 4V |
| Input impedance (High Level) : | 100Ct |
| Max Output Level(RMS) @ 0.1% THD : | 2.0V |

Input/output

| | |
|-----------------------|------------------------|
| High level : | 4 Channel Max |
| Low level : | 4 Channel Max |
| USB input : | Stereo |
| Line Output : | 6 CHANNEL Max |
| 4 Ohm(Stereo) Power : | 4x25W(RMS), 4x50W(MAX) |

Crossover

| | |
|---------------|------------------------|
| Filter Type : | Full / HPF / LPF / BPF |
|---------------|------------------------|

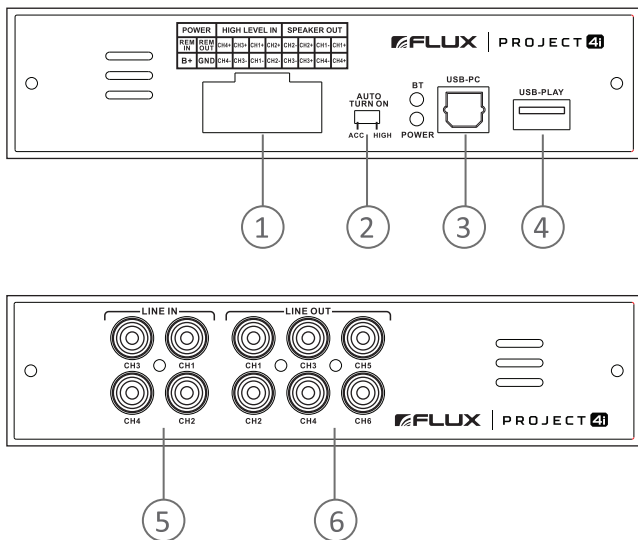
Filter mode and slope

| | |
|-----------------|--------------------|
| Linkwitz : | 6/12/24/36/48dB |
| Butterworth: | 6/12/18/24/36/48dB |
| Bessel : | 6/12/18/24/36/48dB |
| Phase control : | 0° / 180° |

Size

| | |
|-----------|--------------|
| L x W x H | 165x120x43mm |
| Weight | 0.75KG |

Panel Description



1 PLUG & PLAY CONNECTION,

Matching dedicated plug and play harness for different cars.

It make sure that you can connect G8 directly to your factory car radio he ad unit without damaging the original line.

Caution: When connecting the dedicate harness, Please check whether the line sequence of the wire harness is consistent with the original line sequence in order to avoid damage to the other equipment because inconsistent line sequence.

2 Auto Turn On switch:

For auto turn ON/OFF mode, It offers two options: HIGH/ACC.

ACC: When the switch is switched to ACC, use the dedicated wiring harness attached to the power amplifier to connects the Rem In line with the ACC of the car. Then the on/off switch can be controlled by the head unit or the car key; This is the preferred mode.

HIGH: This mode can turn ON/OFF amplifier by detecting the 6V DC Offset from the OEM source unit speaker output terminal. Then the on/off switch can be controlled by controlling the on/off of the OEM source unit.

3 USB-PC port.

USB connection port. Use the USB cable from the accessory to connect PC to amplifier, then the DSP can be adjusted by using the PC tuning software.

4 External USB flash disk port:

It can read audio files from USB flash disk. It supports five formats of audia files APE / WAV / WMA / FLAC / MP3. If USB flash disk can't be read, please format the USB flash disk as FAT32 or exFAT. The external USB flash disk can support up to 64 G.

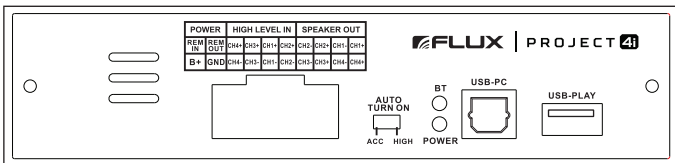
5 LINE IN:

Low-level input port can receive the low-level signal output from RCA such as head unit.

6 LINE OUT:

RCA output high fidelity low-level signal, used to connect external ampjifier.

Installation



SPEAKER OUT:

CH1+: Positive pole of amplifier front left channel output
 CH2+: Positive pole of amplifier front right channel output
 CH3+: Positive pole of amplifier rear left channel output
 CH4+: Positive pole of amplifier rear right channel output

CH1-: Cathode of amplifier front left channel output
 CH2-: Cathode of amplifier front right channel output
 CH3-: Cathode of amplifier rear left channel output
 CH4-: Cathode of amplifier rear right channel output

HIGH LEVEL IN:

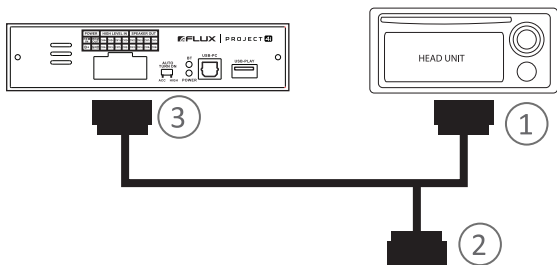
CH1+: Positive pole of Car CD front left channel high level input
 CH2+: Positive pole of Car CD front right channel high level input
 CH3+: Positive pole of Car CD rear left channel high level input
 CH4+: Positive pole of Car CD rear right channel high level input

CH1-: Cathode of Car CD front left channel high level input
 CH2-: Cathode of Car CD front right channel high level input
 CH3-: Cathode of Car CD rear left channel high level input
 CH4-: Cathode of Car CD rear right channel high level input

POWER:

REM IN: Input interface for car ACC start control
 REM OUT: Output interface of start control
 B+: Power Supply +12V
 GND: Ground

DSP Amp to car factory head unit connection instruction



- 1 This Plug is used to connect the OEM car speaker wire & other control wire socket
- 2 The female plug is inserted into the corresponding jack of the car head unit.
- 3 The 20P plug is inserted into the corresponding jack of the Project-4i.



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