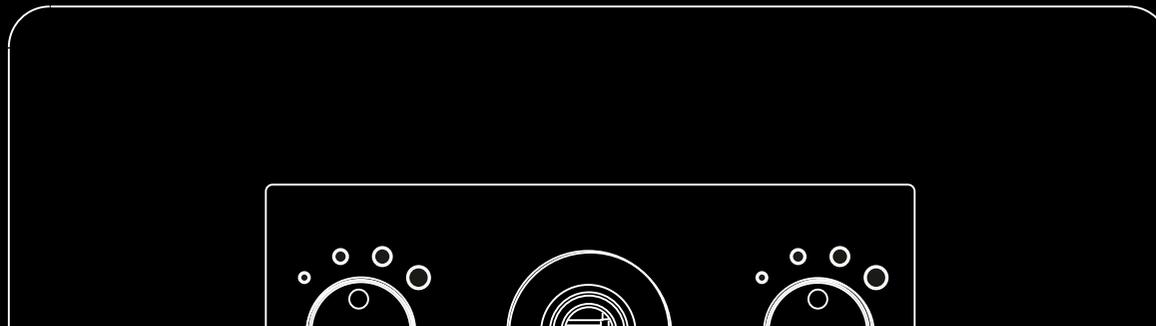
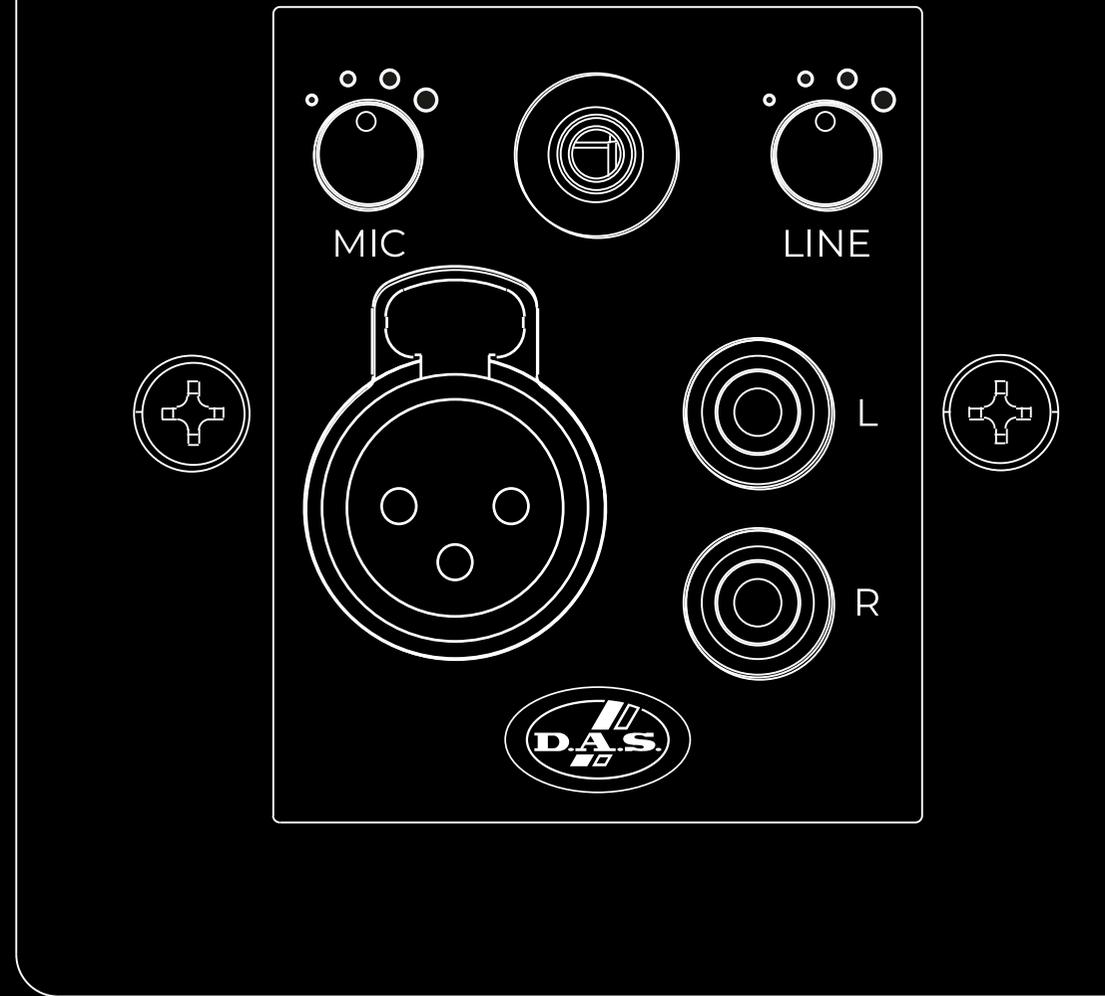


INTEGRAL-WPM1

User manual



DAS Audio is a unique brand. We create sound solutions for businesses, always adapted to the different needs of our clients.

The Integral Series is the heart and brain of our installation solutions. It comprises of a series of devices that in addition to feeding and processing the signal of our speakers, allow an absolute control to our users, guaranteeing the protection and quality of the equipment.

You are about to discover what it means to work with our brand, and this is just the beginning. You will have access to quality training materials on our website, where you will discover specific business solutions and learn how to use them: dasaudio.com/en/training/

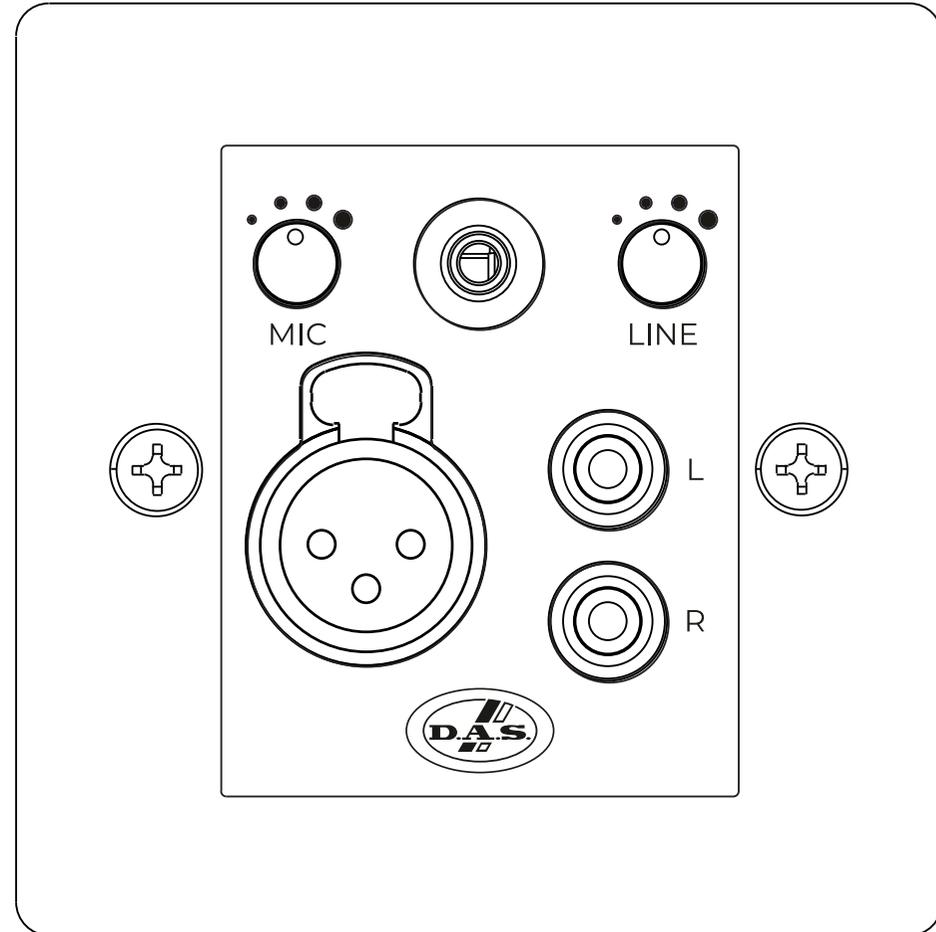
This user manual is designed to guide you, swiftly and smoothly, during the installation of our equipment, but in case you have any questions or doubts, do not hesitate to contact our technical support team by writing directly to support@dasaudio.com or, if you prefer, through our website, contacting your nearest office at dasaudio.com/contact

INTEGRAL

Description and features

INTEGRAL-WPM1 is a 2-channel wall-panel format audio mixer. It includes one balanced XLR microphone input (Phantom 12V can be activated with internal jumper) and an unbalanced Stereo Line input (2 x RCA or 1x1/8" jack). Each channel (mic and line) has its own independent level control. The microphone's signal can be prioritized over the line signal by engaging the talk-over functionality (internal jumper). It allows mixing these two signals getting a balanced mono output that can be sent to Matrix amplifiers, matrix or amplifiers.

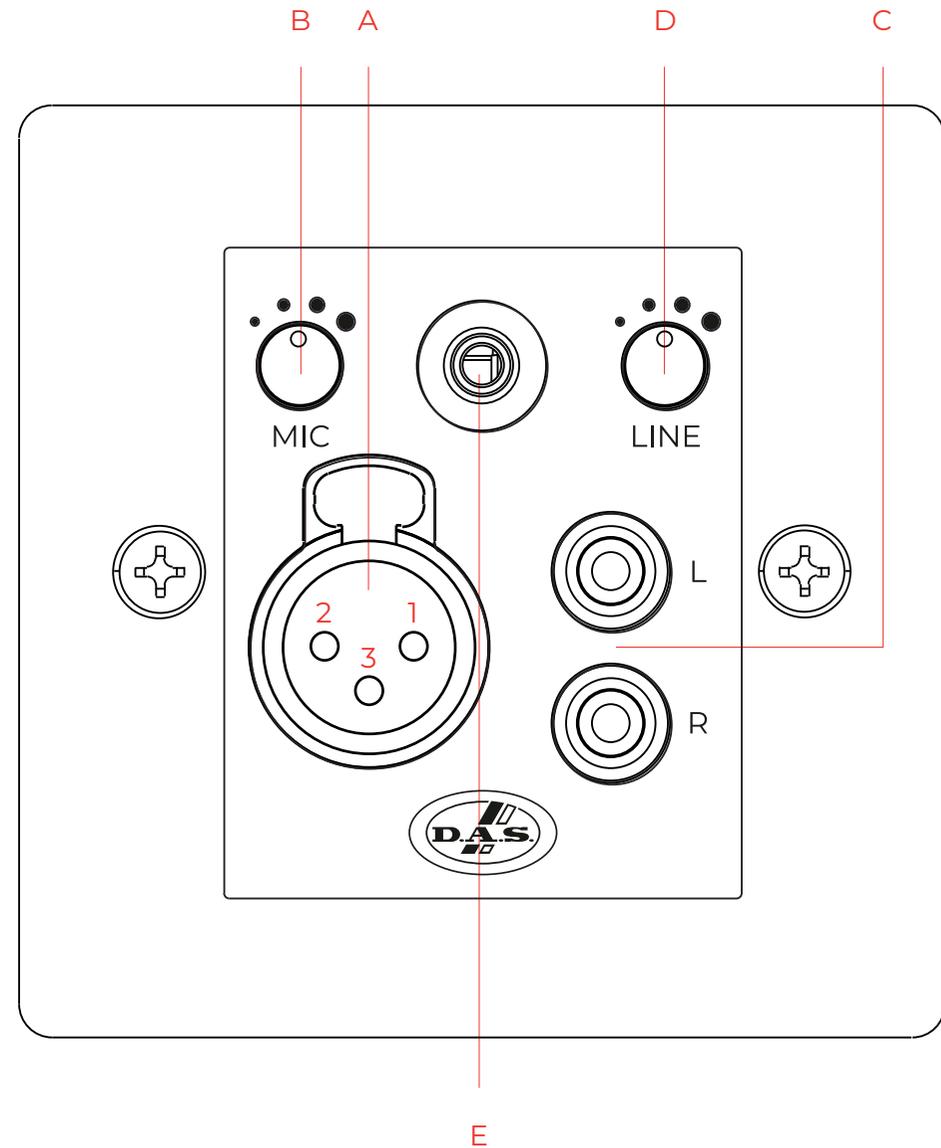
- 2 channel mixer, wall-panel format
- Unbalanced Stereo Line input (2xRCA, 1x1/8" jack)
- Balanced Microphone input (XLR) with integrated High Pass Filter
- Balanced mono signal output
- Independent volume control for MIC and Line channels
- Priority (Talk-over) function available (MIC over Line)
- Phantom power available for MIC channel
- External 12-24Vdc External PSU required, INTEGRAL-PS12
- 86 x 86 mm electrical box included



INTEGRAL

Front panel

- A Balanced Microphone input XLR connector. Pin assignments:
 - 1 or S = GND (Ground)
 - 2 or T = (+) Non inverted input
 - 3 or R = (-) Inverted input
- B Microphone´s level control. For minimum level rotate completely to the left
- C Unbalanced Stereo Line input RCA connectors
- D Line´s level control. For minimum level rotate completely to the left
- E 3.5mm audio mini-jack input for connecting external audio sources as tablets, phones, PCs etc. The mini-jack input would be added to the unbalanced RCA inputs



INTEGRAL

Rear panel

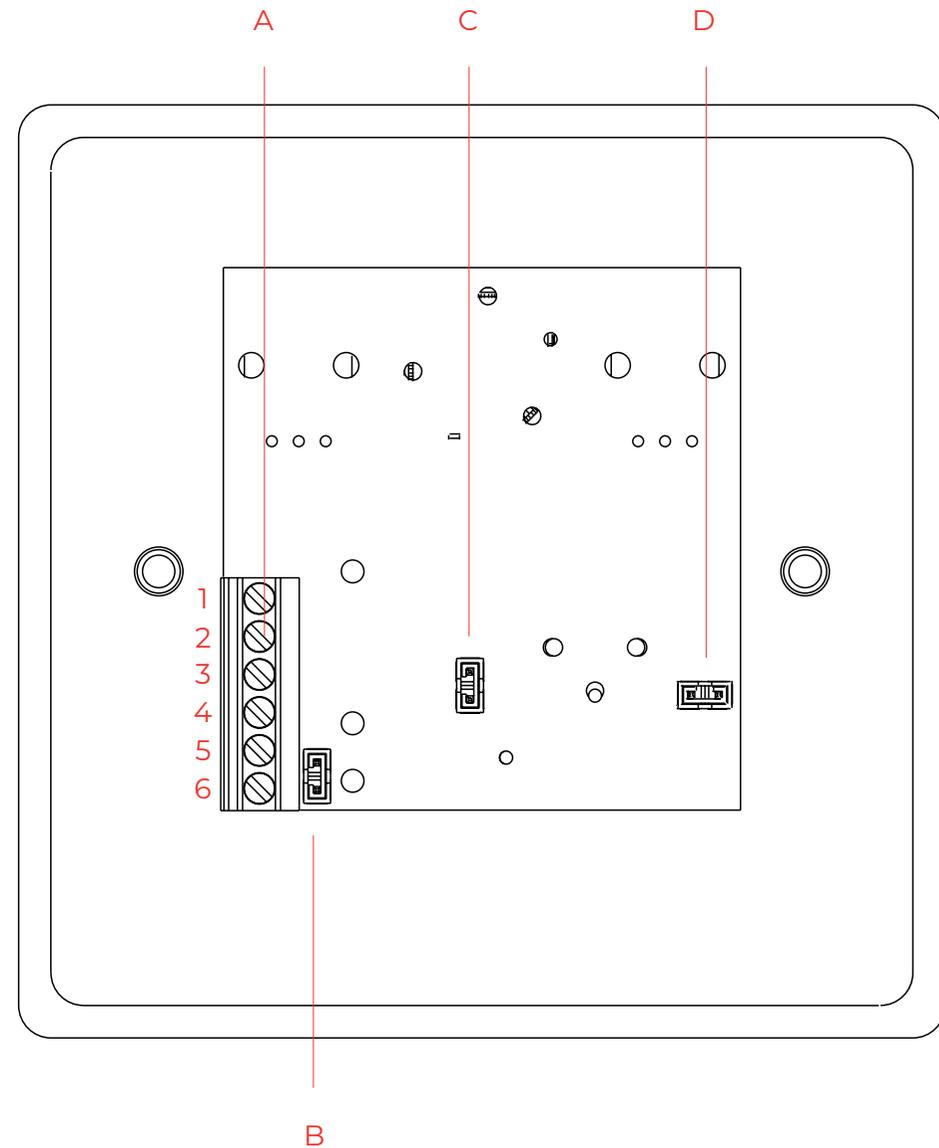
A Audio Output Connector and Vdc in. The 6 pin Euroblock type connector is used to connect the analog audio cables and the Vdc voltage from the external power supply. Pin assignments:

- 1 V+ from the power supply
- 2 V- from the power supply
- 3 OUT + , Audio Signal, Pin 2 of an XLR connector
- 4 OUT- , Audio Signal, Pin 3 of an XLR connector
- 5 not used
- 6 Earth

B Link Jumper: used to connect EARTH and V- of the Power Supply. Normally has to be connected to avoid noise or hum.

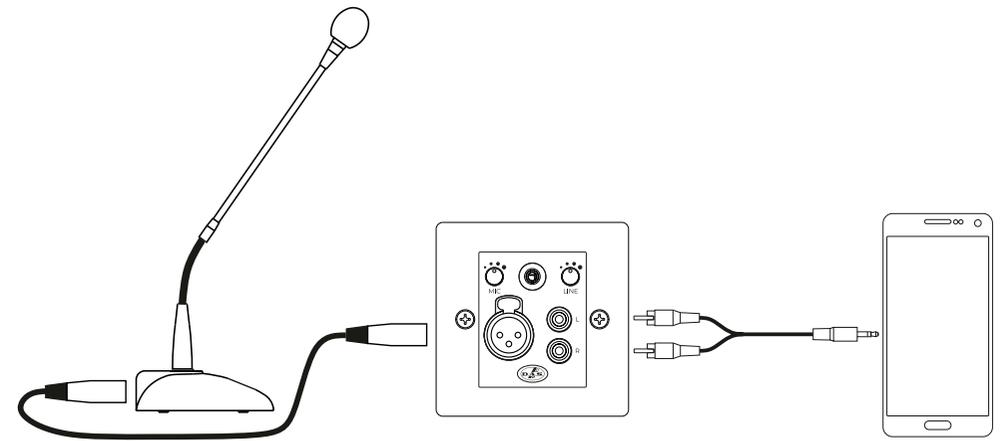
C PHT Jumper: When inserted the Phantom power will be available at the XLR connector

D TKO Jumper: Remove it to activate Talk Over functionality of the Microphone ´s signal over the line signal



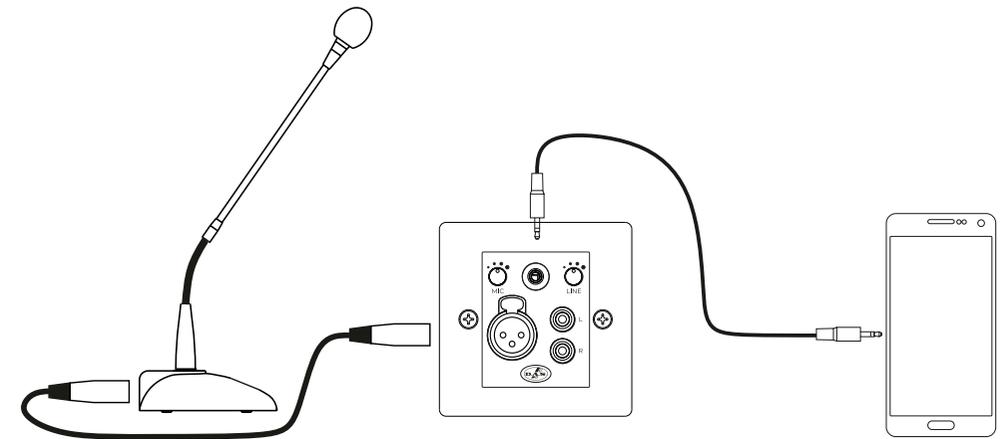
INTEGRAL Connections

The image on the right shows INTEGRAL-WPM1 panel connected to a paging MC01 microphone using the input XLR connector. A stereo line signal has been injected using the two RCA connectors with a minijack cable connected to the mobile phone (or computer).



Other possibility would be using the minijack input connector for the line input.

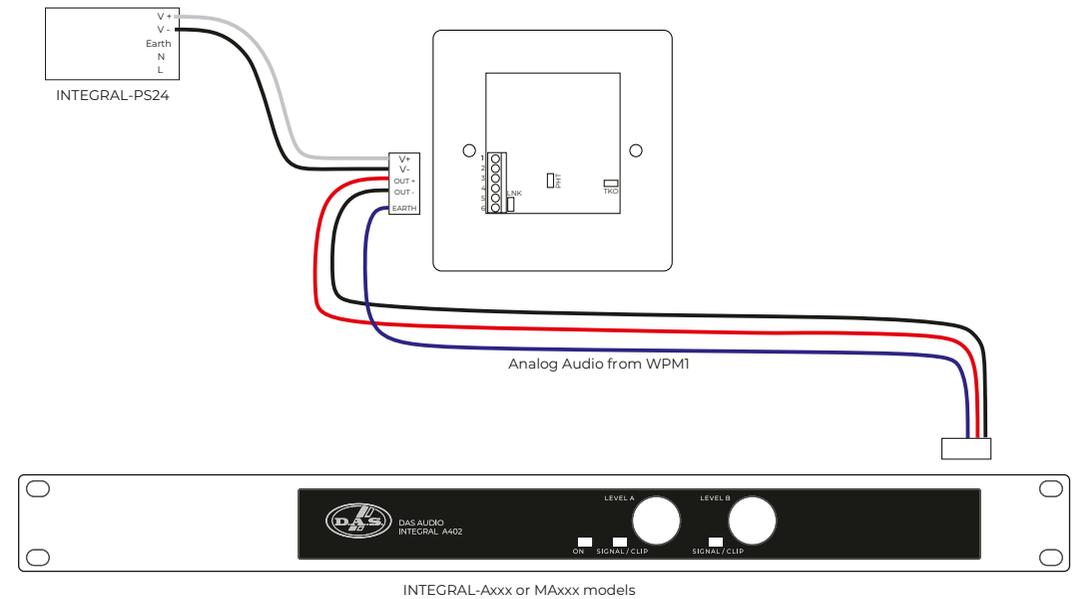
Use the level knobs at the front panel for each input channel to define your mix of the two signals (line and mic).



INTEGRAL Connections

Remember that Phantom power for the microphone can be activated at the rear panel of the WPM1 before installation by connecting the dedicated PHT jumper (see image on page 5). As well, the talk-over functionality (priority) of the microphone signal over the line input can be activated by removing the TKO jumper located at the rear panel as shown in the figure below.

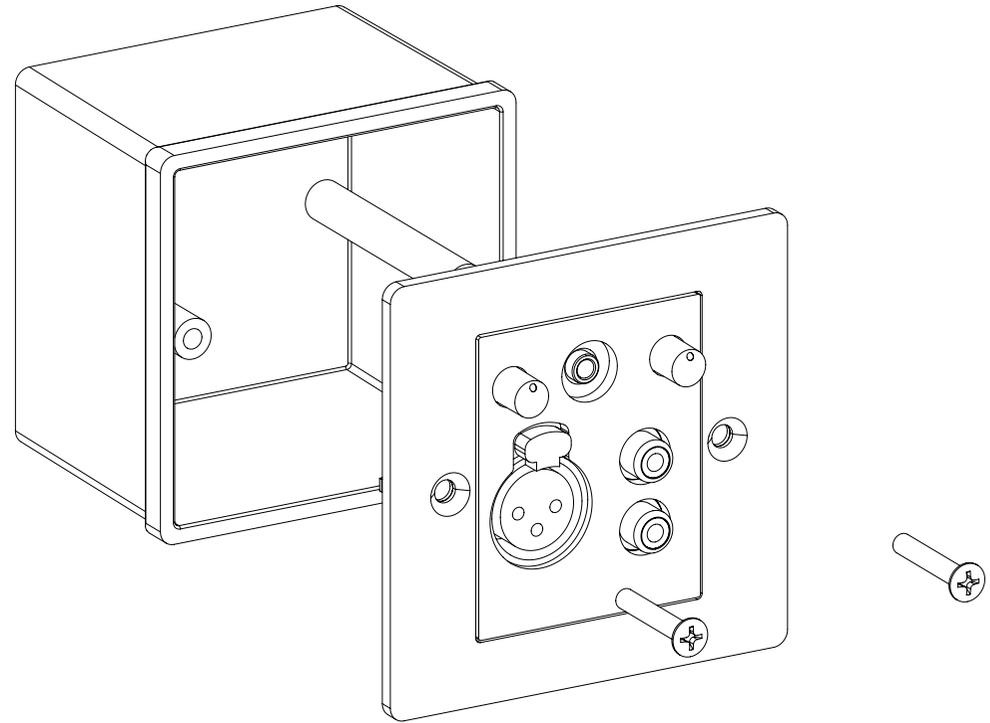
The INTEGRAL-WPM1 needs to be connected to an external 12-24Vdc power supply. DAS Audio's INTEGRAL-PS24 with uni-versal mains is ideal to be installed inside walls and construction structures.



INTEGRAL Installation

With each unit an electrical 86 x 86 mm box is included. Contact a professional installer or authorized dealer for the mounting process.

- Cut a squared hole in the wall to place the electrical box.
- Place the electrical box and fix it to the wall. Previously all cabling (speaker outputs, AC power and signal input) has been installed in the wall with sufficient length to provide proper stress relief.
- Run the cables out of the wall through the electrical box.
- Attach the metal mounting ring to the electrical box with the provided screws.
- Mount the connectors on the extremes of the installed cabling.
- Connect the unit (speaker outputs, AC power etc.) and secure it to the mounting ring.



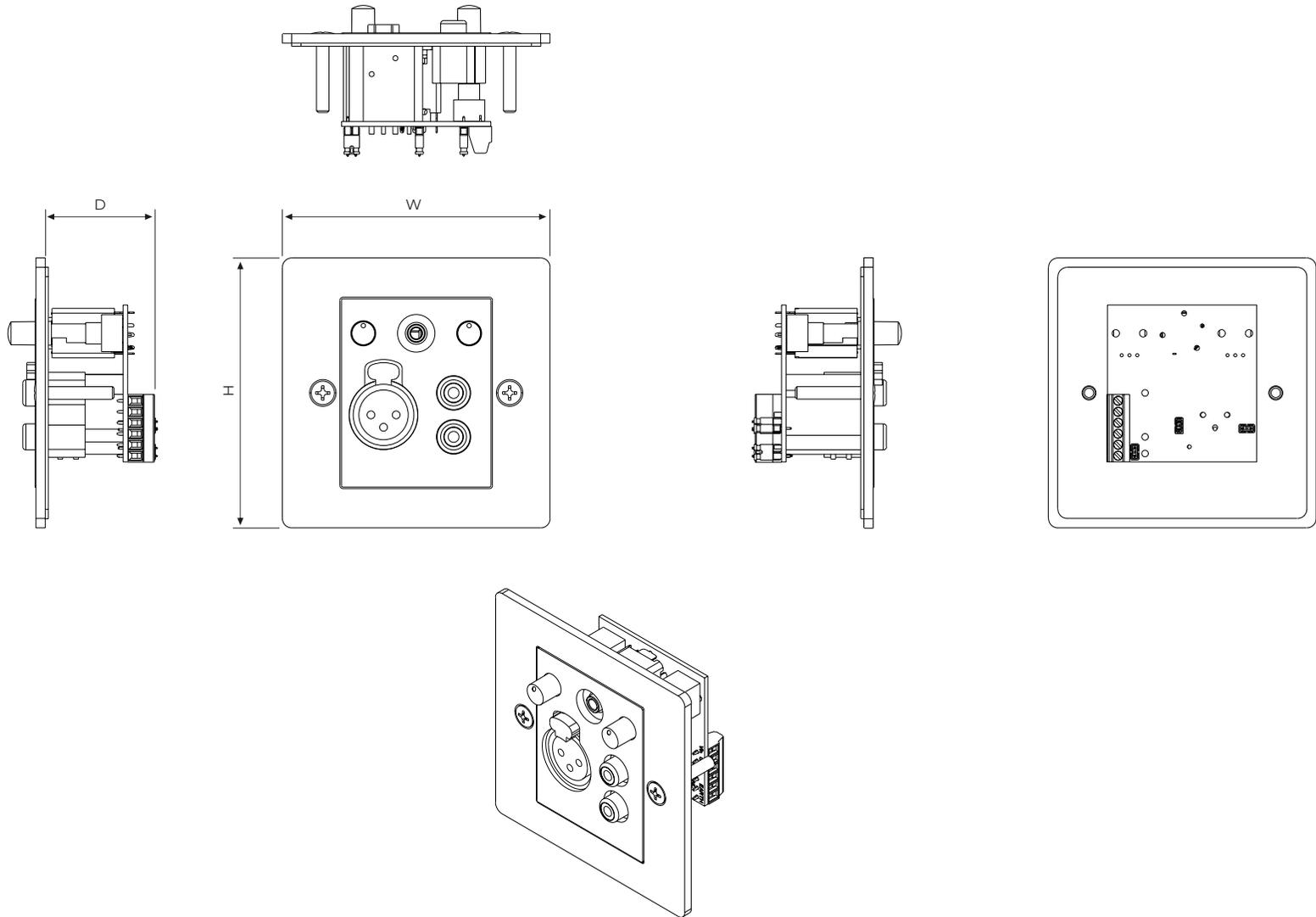
INTEGRAL

Specifications

Input Sensitivity / Impedance	Line: -10dBV / 10Kohm MIC: -40 or -20dBV / >1kohm
Output Level / Minimum Load	0dBV / 600ohm (max. + 17dBV)
Frequency Response	Line: 20Hz – 20kHz MIC: 120Hz – 20kHz
THD	Line: <0.005% MIC: <0.01%
Signal Noise Ratio	Line: >105dB MIC: >90dB
Talk-Over	-30dB/ 2s
Phantom Voltage	12Vdc
External Power Supply	12-24Vdc, recommended INTEGRAL-PS12
Power Consumption	25mA
Dimensions (H x W x D)	86 x 86 x 34mm (3.38 x 3.38 x 1.34 in)
Weight	250g

INTEGRAL

Line drawings



INTEGRAL
Notes



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