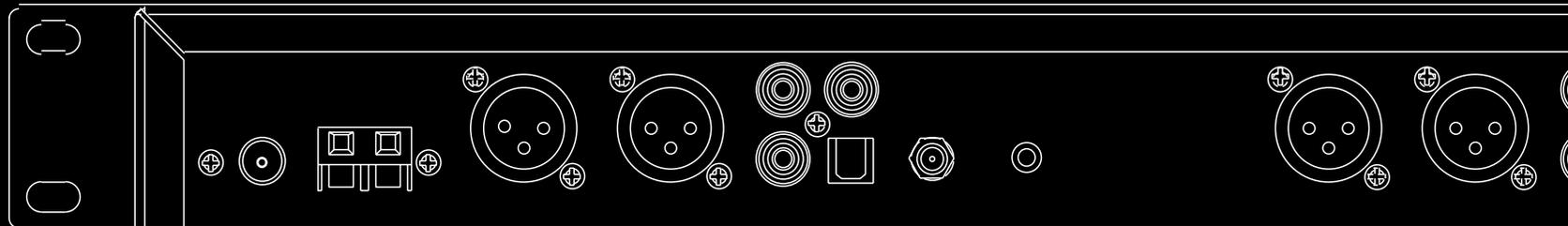
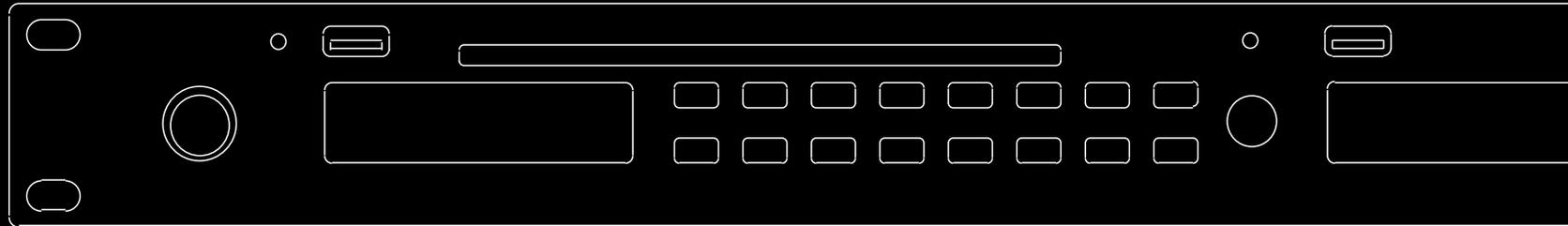


# INTEGRAL-AS2

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/](https://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](mailto:support@dasaudio.com) or, if you prefer, through our website, contacting your nearest office at [dasaudio.com/contact](https://dasaudio.com/contact)

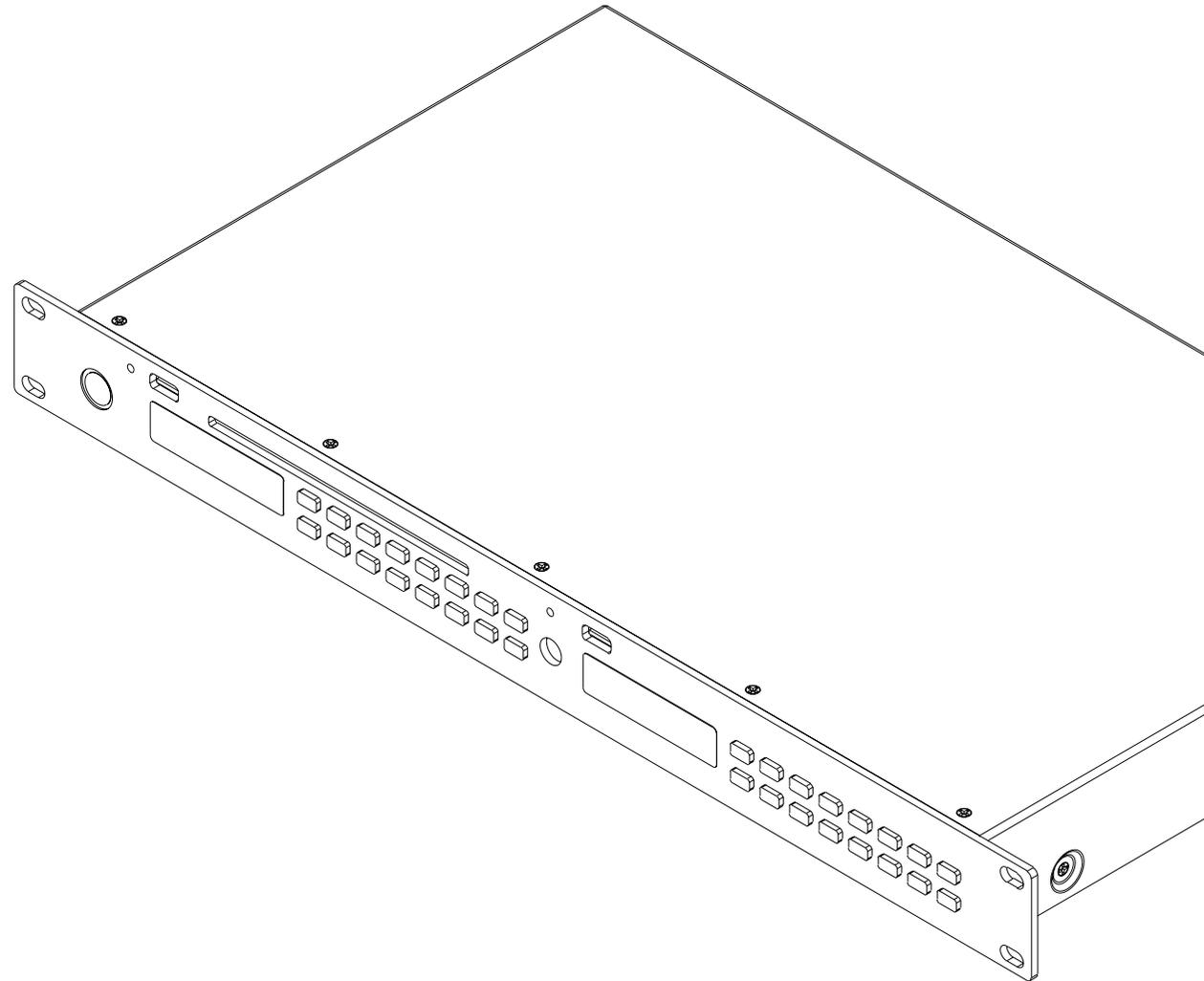
# INTEGRAL

## Description and features

INTEGRAL-AS2 is an stereo rack mount audio source with two independent channels. It is equipped with CD player, FM/AM tuner, two USB slots and two BT channels for wireless connectivity. It performs 2x unbalanced and 2x balanced stereo audio outputs.

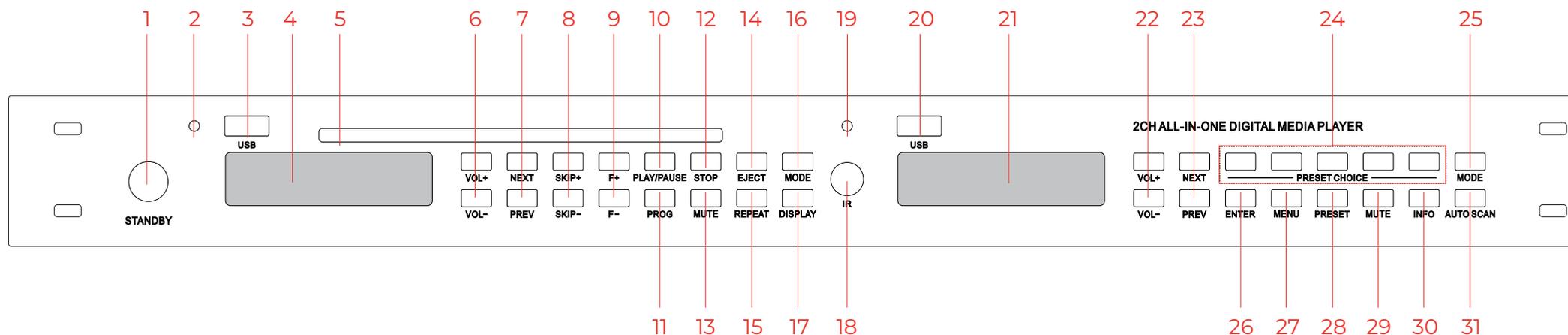
The front panel integrates two screens to display the information of each channel and a collection of buttons to navigate and activate the different features available. IR remote control, FM/AM antennas and 2x RCA cables are included.

- Dual channel stereo professional audio source
- FM tuner, USB slots, BT wireless and CD
- 2 x Stereo balanced audio outputs (XLR)
- 2 x Stereo unbalanced audio outputs (RCA)
- Accessories included: FM, AM antenna, IR remote control, 2 x RCA cable



# INTEGRAL

## Front panel



- 1 **STANDBY:** push this button to activate and deactivate the unit.
- 2 **LED INDICATOR:** this indicator flashes when the left channel is being controlled.
- 3 **USB PORT:** allows to play USB memory stick on the left channel.
- 4 **SCREEN:** shows information related to the active source on the left channel.
- 5 **DISC SLOT:** dedicated slot for CDs. The unit will automatically start reproducing it.
- 6 **VOL + / VOL -:** turns up and down the volume of the left channel.

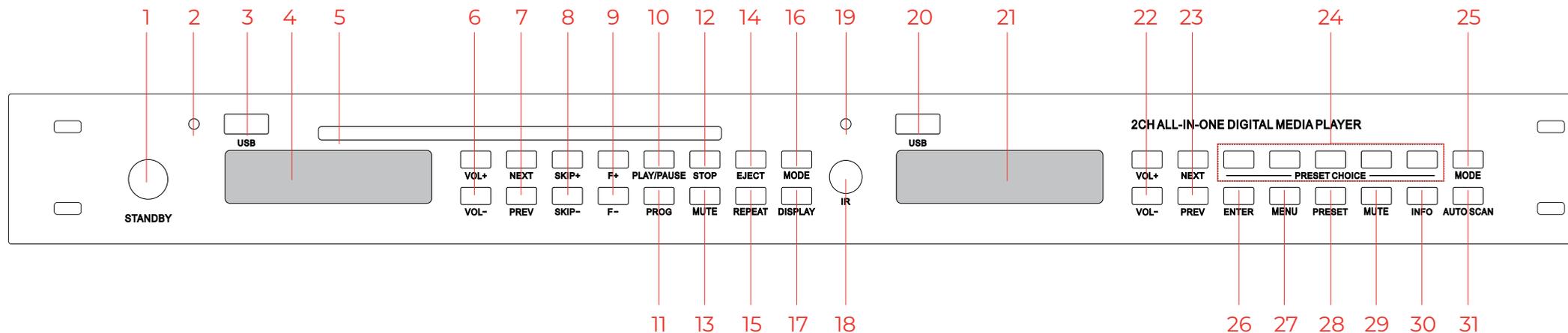
- 7 **NEXT / PREV:** these buttons are used to skip to next or previous track.
- 8 **SKIP + / SKIP - :** press these buttons when skipping groups of tracks (+10 or -10).
- 9 **F + (File +) / F- (File -):** use these buttons to select the folder when using a CD or an USB memory stick.
- 10 **PLAY / PAUSE:** press to start or pause the reproduction.
- 11 **PROG:** allows to play favorite songs when working on CD or USB mode. Make sure to Stop playing before enter PROG, you could select your favourite tracks by pressing PREV/NEXT,

then press PROG button to confirm selection and press Play. To exist PROG the user needs to press twice STOP and the Play again to reproduce normally.

- 12 **STOP:** press to Stop reproduction.
- 13 **MUTE:** press to mute the audio of the left channel. Press it again to reactivate audio.
- 14 **EJECT:** allows to eject the compact Disc.  
*Note: disc holder won't open unless stop or pause button has been pressed before.*
- 15 **REPEAT:** press this button to repeat track or All CD.

# INTEGRAL

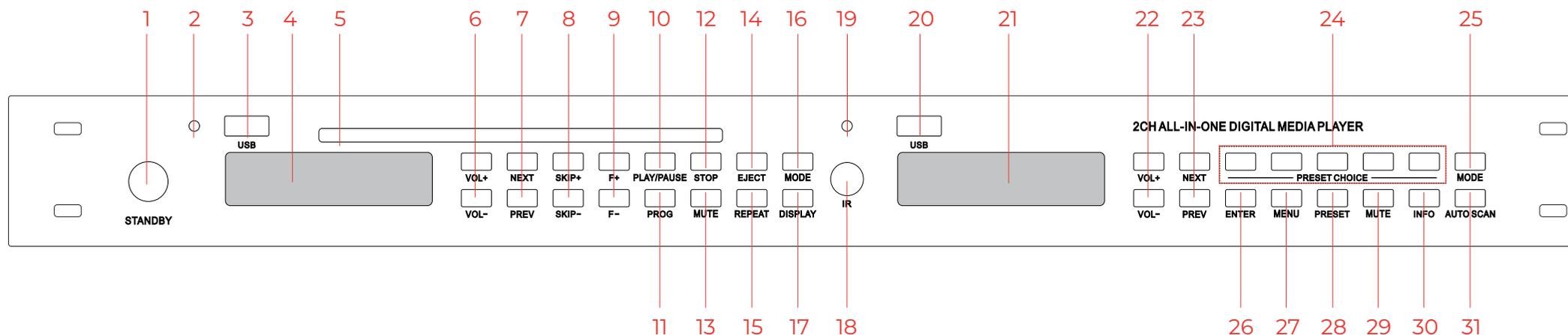
## Front panel



- 16 MODE:** press this button to select active audio source between USB, CD and Bluetooth of the left side media.
- 17 DISPLAY:** push this button to activate or deactivate the screen.
- 18 IR SENSOR:** this sensor receives signal from remote control.
- 19 LED INDICATOR:** this indicator flashes when the right channel is being controlled.
- 20 USB PORT:** allows to play USB memory stick on the right channel.
- 21 SCREEN:** shows information related to the active source on the right channel
- 22 VOL + / VOL - :** turns up and down the volume of the right channel.
- 23 NEXT / PREV:**  
**When USB or BT mode active:** Press these buttons to skip to next or previous track  
**When FM(RDS) and DAB+ mode active:** Press these buttons to skip frequency by +0.05 or -0.05 MHz. Press and hold these buttons to scan through the frequency range in semi-automatic way.
- 24 PRESET CHOICE (1, 2, 3, 4, 5):** Keep pressing for several seconds to store the favorite stations. And press them to choose to play the stored stations (1 to 5). Through Remote Control that total 9 favorite stations can be stored
- 25 MODE:** press this button to select active audio source between SB, DAB+, FM, AM and Bluetooth of the right side media.
- 26 ENTER:** press this button to confirm a selection.
- 27 MENU (works with buttons "PREV" / "NEXT" (23) and "ENTER" (26)):**  
**When FM mode active:**  
**(Scan setting):** To select scan mode: All stations or Strong stations.  
**(System):**
- Language selection: English, Portugués, Español, Française, Italiano, Deutsch.
  - Factory reset: Clears the memory completely and scans again available stations.
  - SW version: Shows the firmware version.

# INTEGRAL

## Front panel



- **(Audio setting):** Allows to select Stereo or Mono mode.

### When in DAB + mode:

**(Full scan):** Allows to scan through all stations.

### (System):

- Language selection: English, Portugués, Español, Française, Italiano, Deutsch.
- SW version: shows the firmware version.
- Factory reset: clears the memory completely and scans again available stations.

**(Prune):** deletes (or not) stations that are either no longer transmitting or have moved frequency

**(DRC):** Dynamic Range Compression provides a feature that reduces the volume of louder sounds and boosts the volume of quieter sounds. It can be a handy feature when

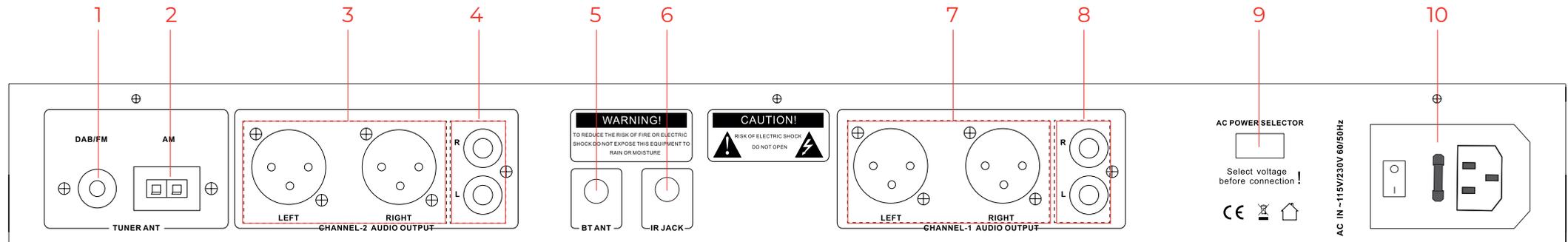
listening to audio at lower volumes.

**(Manual tune):** allows to scan through the frequencies manually.

- 28 **PRESET:** press this button to review the 60 stored stations, press 'NEXT' or 'PREV' to choose a desired station then press 'ENTER' to play this station.
- 29 **MUTE:** press to mute the audio of the left channel. Press it again to reactivate audio.
- 30 **INFO:** allows to show the related information for the FM(RDS) and DAB+ mode.
- 31 **AUTO SCAN:** press this to scan through and store the stations automatically. The stored stations can be review in the PRESET list. Press it again to stop scanning.

# INTEGRAL

## Rear panel



**1 ANTENNA DAB+/FM CONNECTOR:** connect the included DAB+/FM antenna here.

**2 ANTENNA AM CONNECTOR:** connect the included AM antenna here.

**3 XLR OUT JACKS:** these XLR pin output jacks (balanced) always output the sound from the right side media.

**4 RCA OUT JACKS:** these RCA pin output jacks (unbalanced) always output the sound from the right side media.

**5 BT ANT JACK:** connect the included bluetooth antenna here.

**6 IR JACK:** connect additional I R receiver and attach to other surface where it provides the best reception from the remote control.

**7 XLR OUT JACKS:** these XLR pin output jacks (balanced) always output the sound from the left side media.

**8 RCA OUT JACKS:** these RCA pin output jacks (unbalanced) always output the sound from the left side media.

**9 POWER SELECTOR:** this selector allows to switch between 115V and 230V. Double check the voltage selected before switching on the unit.

**10 AC IN SYSTEM:** connect the included power cord here, and power on/off this unit.

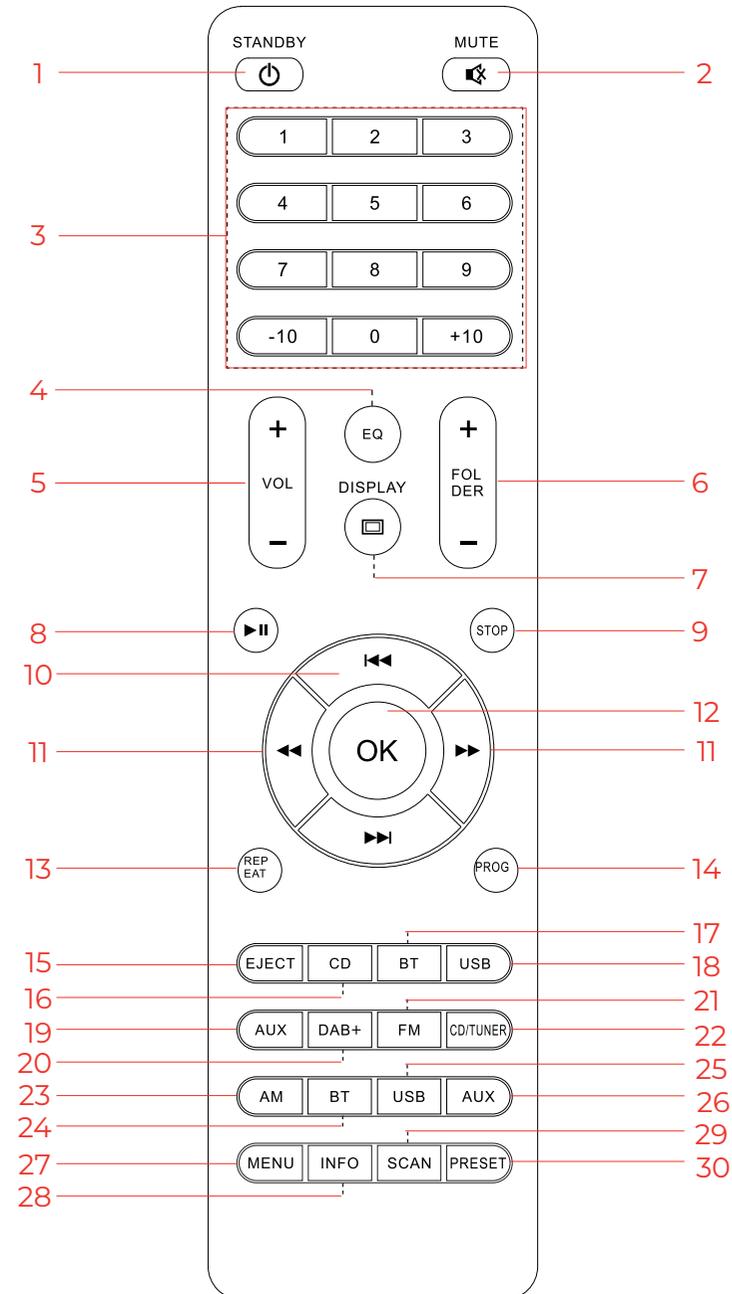
# INTEGRAL

## Remote control

- 1 **STANDBY:** press this button to activate and deactivate this unit.
- 2 **MUTE:** press this button to mute this unit's audio.
- 3 **NUMBER BUTTONS:** use these number buttons to select tracks or preset stations.
- 4 **EQ SELECTION:** press this to select the EQ mode among Classic, Rock, Pop, Jazz and Flat.
- 5 **VOL +/- BUTTONS:** press this to adjust the output audio level.
- 6 **FOLDER:** press this to select the folder when use CD and USB media.
- 7 **DISPLAY:** push this button to make the screen light on/off.
- 8 **PLAY/PAUSE:** press this to start, resume, or pause the playback.
- 9 **STOP:** press this to stop playback.
- 10 **SKIP (PREV. & NEXT) button:**

**When in the CD, USB and Bluetooth mode:**  
Press these buttons to skip to previous or next track.

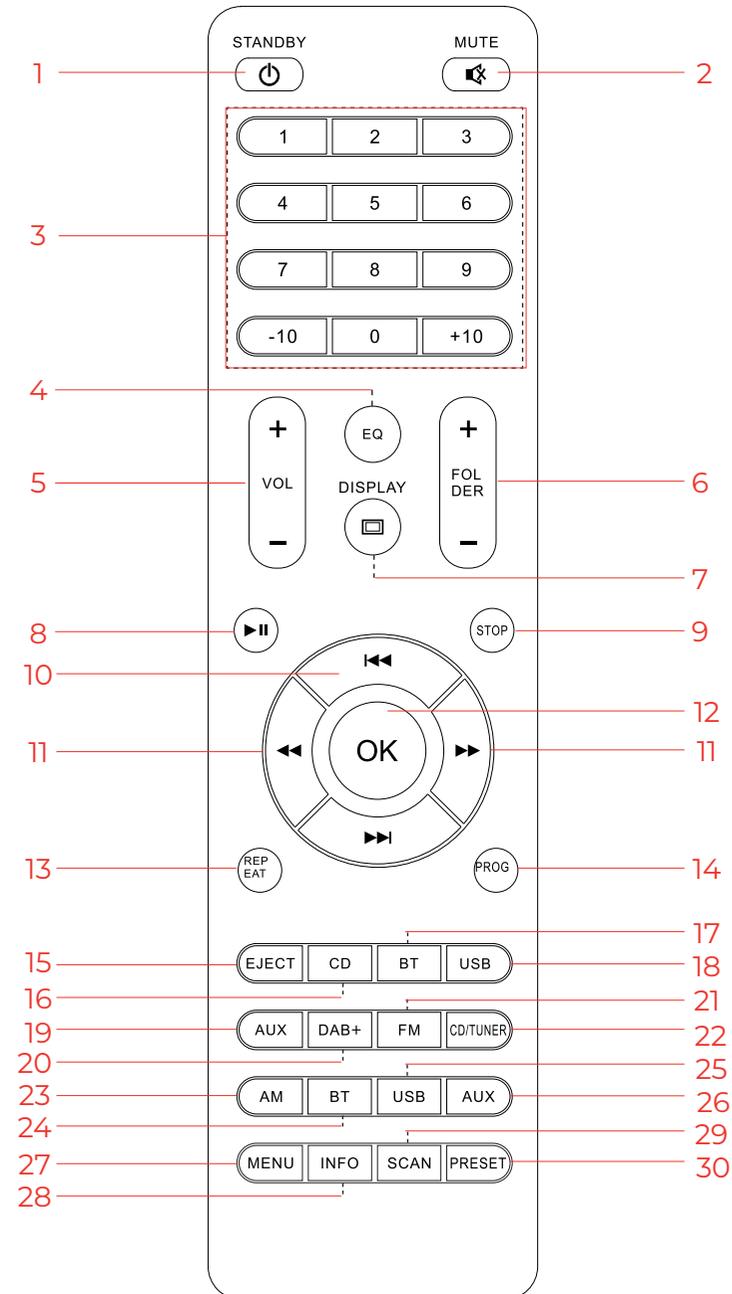
**When in the FM(RDS) and DAB+ mode:**  
Press these buttons to skip the frequency backward or forward by 0.05 MHz.  
Press and hold these buttons to scan through the frequencies in a semi-automatic way.



# INTEGRAL

## Remote control

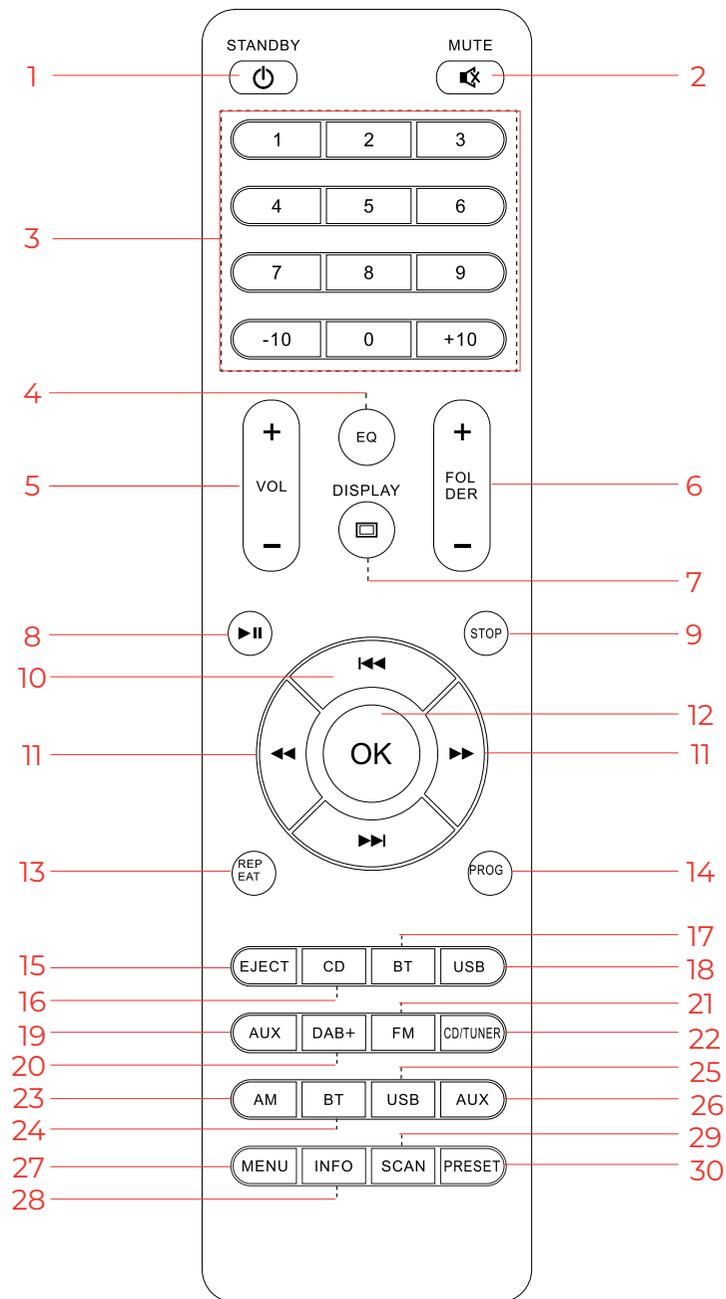
- 11 **Fast-reverse & Fast-forward button:** press and hold these buttons to scan at fast reverse or fast forward playback for CD mode.
- 12 **OK BUTTON:** press this to confirm a selection.
- 13 **REPEAT:** press this turn the repeat playback function on/off.
- 14 **PROGRAM:** please refer to the operation of the front panel's PROG.
- 15 **EJECT:** press this to eject the CD in the CD slot.
- 16 **CD:** press this to switch the input source of left side to "CD Mode".
- 17 **BT(L-BLUETOOTH):** press this to switch the input source of left side to "BT Mode", its name "L-BLUETOOTH" shall appear on your mobile device for pairing.
- 18 **USB(left side):** press this to switch the input source of left side to "USB Mode".
- 19 **AUX:** this button is only available for another model of CD player.
- 20 **DAB+ :** press this to switch the input source of right side to "DAB+ Mode".
- 21 **FM(containing RDS):** press this to switch to the input of source of right side to "FM Mode".



# INTEGRAL

## Remote control

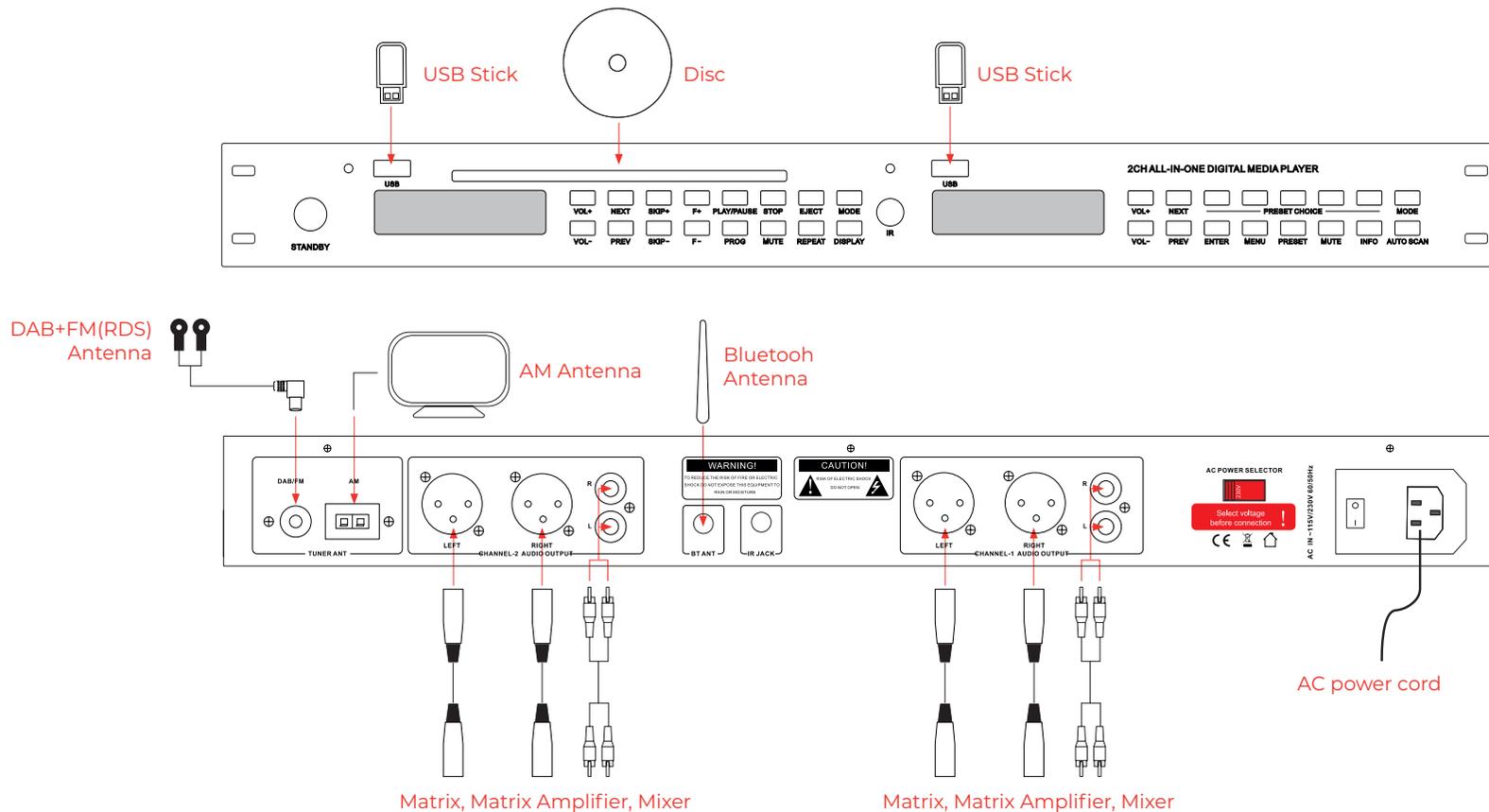
- 22 **CD/TUNER:** press this button to switch between controlling left and right side media when use additional function buttons (3 - 14). The corresponding indicator on the unit will flash to show which side is being controlled.
- 23 **AM:** press this to switch to the input of source of right side to “AM Mode”.
- 24 **BT(R-BLUETOOTH):** press this to switch the input source of right side to “Blueetooth Mode”,its name “R-BLUETOOTH” shall appear on your mobile device for pairing.
- 25 **USB(right side):** press this to switch the input source of right side to “USB Mode”.
- 26 **AUX:** this button is only available for another model of tuner.
- 27 **MENU:** please refer to the operations of front panel “MENU”.
- 28 **INFO:** allows to show the related information for the FM(RDS) and DAB+ mode.
- 29 **SCAN:** press this to scan through and store the stations automatically.
- 30 **PRESET:** press this button to review the 60 stored stations,press ‘NEXT’ or ‘PREV’ to choose a desired station then press ‘ENTER’ to play this station.



# INTEGRAL Connections

The INTEGRAL-AS2 transmits analog balanced audio signal by the use of standard microphone cabling with XLR connectors. Each of the two channels is equipped with this type of connectors. Connect the outputs to any audio receiver such as a mixing console, audio matrix (M models) or Matrix amplifiers (MA models). For permanent installation is highly recommendable to use this option. Besides XLR outputs, RCA connectors are also provided for either HIFI, or non-standard applications.

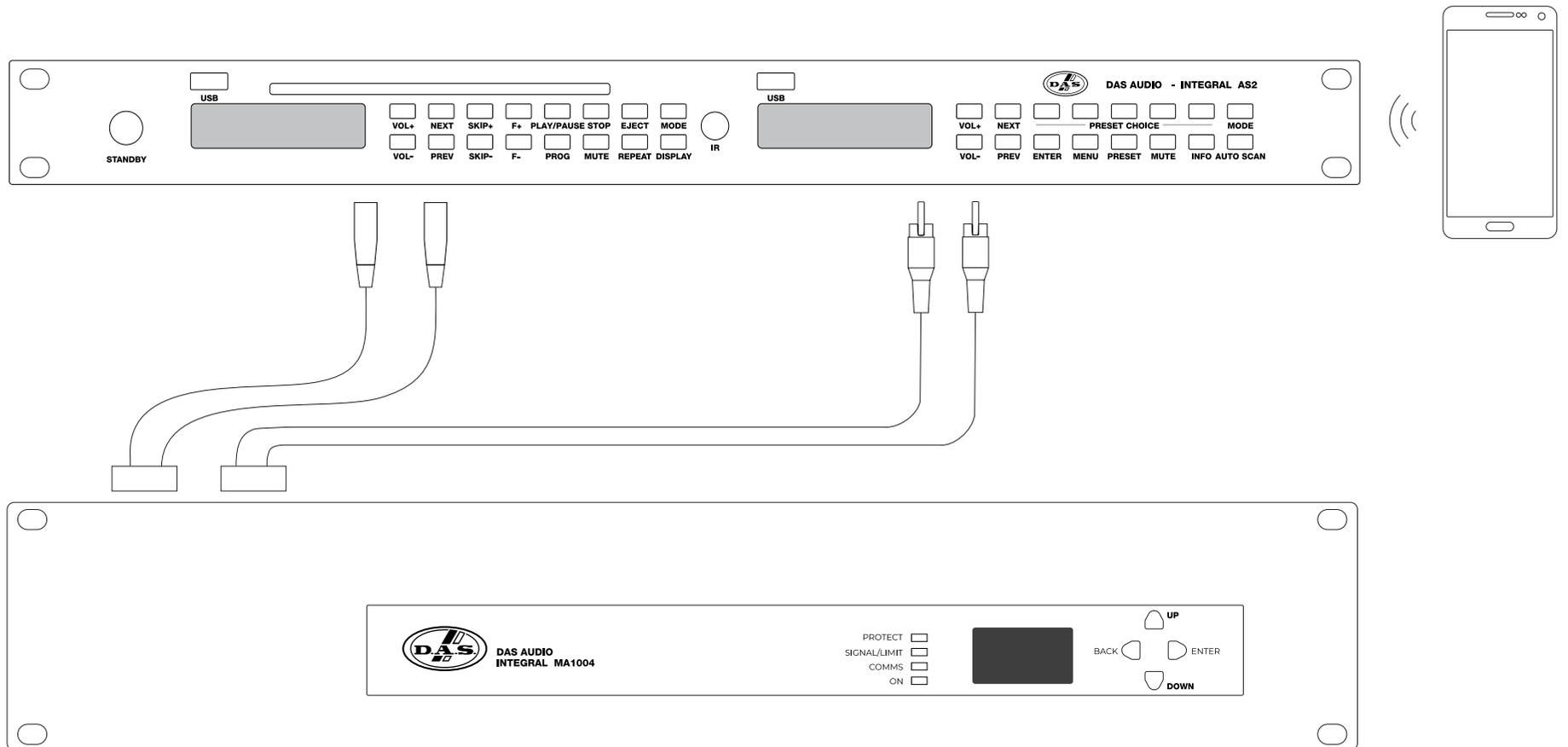
The connections of the different accessories/cabling as the antennas and USB sticks are shown in the figure below. The Bluetooth channels would be displayed in the smart phones or tablets as L-BLUETOOTH and R-BLUETOOTH.



# INTEGRAL

## Connections

As a dual channel sound source, two independent stereo signals can be routed to an INTEGRAL-M88 matrix or MA1004/1604 Matrix amplifiers as shown in the figure:



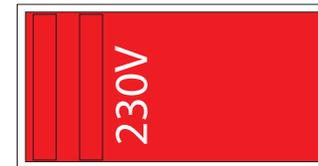
## INTEGRAL

### Player placement and electrical safety

INTEGRAL-AS2 has 4 rubber pads for standing the device on top of a surface, as well as drilled wings with standard 1 U height holes in order to mount the unit on a portable, or installation rack. The remote control allows mounting the unit relatively far away from the user. However we suggest ensuring the device is easily reachable.

The device has a switch on the rear panel to choose between 115V and 230V. Please, make sure you chose the right voltage mains BEFORE switching on the audio source.

## AC POWER SELECTOR



Select voltage  
before connection



AC IN ~115V/230V 60/50Hz

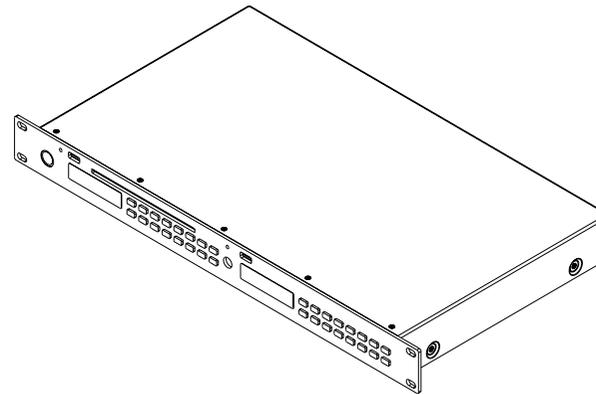
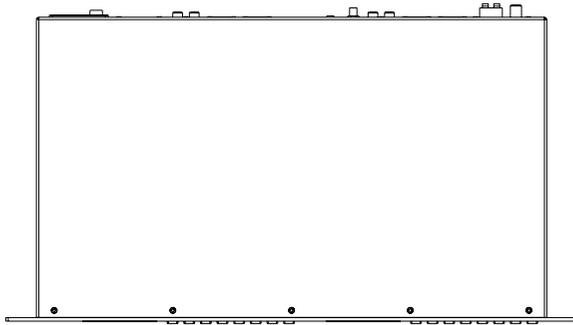
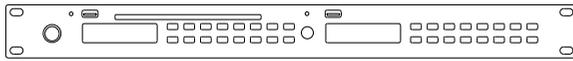
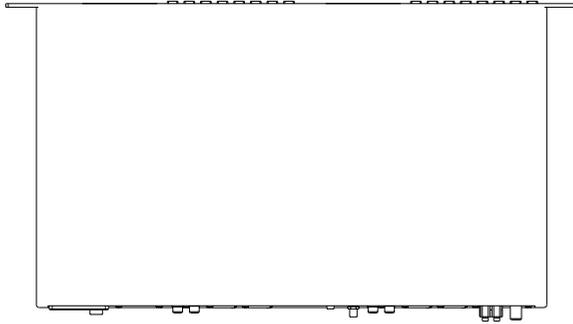
# INTEGRAL

## Specifications

|                               |   |                            |                              |
|-------------------------------|---|----------------------------|------------------------------|
| <b>System</b>                 | 2 channel multi media audio Source  | <b>Power Consumption</b>   | 30 W (0,5 W on standby mode) |
| <b>Compatible media</b>       | Left Channel: CD, USB, Bluetooth<br>Right Channel: USB, Bluetooth, FM (RDS), DAB + (DAB), AM  | <b>Dimensions</b>          | 372x267x49 (en mm)           |
| <b>Playable formats</b>       | CD: CD, CD-R, CD-RW<br>USB: MP3, WAV, WMA, FLAC, APE  | <b>Shipping Dimensions</b> | 520x355x117 (en mm)          |
| <b>Bluetooth version</b>      | Version 5.0   | <b>Net Weight</b>          | 3,40 kg (7.5 lb)             |
| <b>Frequency Range</b>        | FM (RDS): 87,50 - 108,00 MHz<br>DAB + (DAB): 168,00 - 240,00 MHz<br>AM: 522 - 1620 kHz  | <b>Shipping Weight</b>     | 4,10 kg (9 lb)               |
| <b>Frequency Response</b>     | 20 Hz - 20 kHz ( $\pm$ 0,5 dB)  |                            |                              |
| <b>S / N ratio</b>            | > 105 dB)   |                            |                              |
| <b>T.H.D.</b>                 | < 0,005%  |                            |                              |
| <b>Unbalanced L/R outputs</b> | RCA terminal x 2<br>Load impedance: Over 10 k $\Omega$ /kohms<br>Output level: 2 Vrms (Max. 10 dBu) at 10 k $\Omega$ /kohms load                          |                            |                              |
| <b>Balanced L/R outputs</b>   | XLR terminal x 2 (1: GND, 2: Hot, 3: Cold)<br>Load impedance: Over 600 $\Omega$ /ohms<br>Output level: 8. 23 dBu (Max. 24 dBu) at 600 $\Omega$ /ohms load |                            |                              |
| <b>Power Supply</b>           | AC 115/230V 60/50 Hz with selector  |                            |                              |

# INTEGRAL

## Line drawings





SOUND WITH SOUL