POWER AMPLIFIER



CERTIFICATIONS AND APPROVALS

- CE comply with European Community 2006/95/CE LVD Directive and 2004/108/CE EMC
- Directive Immunity according to IEC EN 55013+A1+A2, IEC EN 55020+A2+EC, EN 61000-3-2, EN 61000-3-3+A1
- Safety according to IEC EN 60065:2002

DESCRIPTION

UP 2081, UP 2161 and UP 2321 are power amplifiers with 1 mic-line audio input on removable connectors or XLR socket or RJ 45 socket and an aux input for an additional external music source.

The amplifier nominal power is 80 W for the UP 2081, 160 W for the UP 2161 and 320 W for the UP 2321, available on either a low impedance output (min. 4 Ω) or 100 – 70 V constant voltage output (for loudspeakers having 100 – 70 V transformers).

The mic-line input can access the priority through an external command (connected to the removable connector). The RJ 45 socket is used for quick connection of an RCF BM 3001 paging microphone (through CAT5 cable). The mic-line input have a common 'presence' control and separate high-pass filters that are useful for improving speech intelligibility.

The AUX input have separate tone and gain controls.

The mic-line input could have priority over the AUX input or mixed with the AUX input.

Front panel LED's indicate the device state (ON, PROT), the priority activation (PRIOR) and the signal level (SIG/PK).

INSTALLATION NOTES

The UP 2081, UP 2161 and UP 2321 are supply with 4 footpad that allow to place the unit on a table.

To ensure proper heat dissipation, install the player while leaving clearances of 0,1 m between the player and wall or other components.

In case the UP 2081, UP 2161 and UP 2321 will be assemble in a cabinet use the ear rack brackets included.

The power amplifiers have forced ventilation controlled by a thermostat. Air ventilation is horizontally (looking at the front panel: from left to right), so it is necessary to keep open the lateral sides. The power amplifiers can be stacked without spaces or ventilation panels

MAIN FEATURES

- Full digital technology amplifier, 100V-70V and 4 Ohm outputs
- 1 universal inputs with phantom facility, Presence Control and per-channel High-Pass filters
- Screw terminal connections, additional XLR and RJ45 input connections available
- RJ45 connectors for connection to BM3001 microphone
- Configurable Priority settings
- One aux input for music source with volume and tone controls
- Status / Priority / Audio Level LED indications

ACCESSORIES (included)

- 1 Male Audio Input connector 4 pole
- 1 Male output connector 4 pole
- Safety protection cover for 100 V output connector
- Rack ears with screw
- AC Power cord
- User's Guide
- Quick Start Instruction
- Warranty Card

MAIN APPLICATIONS

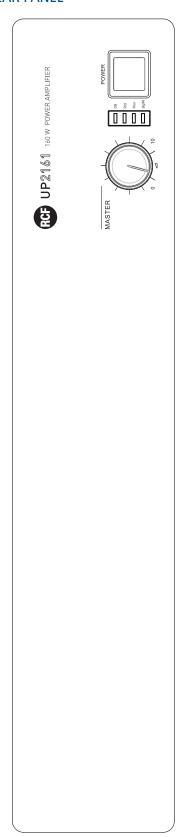
- Restaurants
- BoutiquePub
- Beauty Centre
- Market
- Hotels
- Office building
- Medical centres

ACCESSORIES (not included)

 BM 3001 microphone console with CAT5 cable and RJ 45 connector (code 143 22 008 Optional)



FRONT PANEL & REAR PANEL





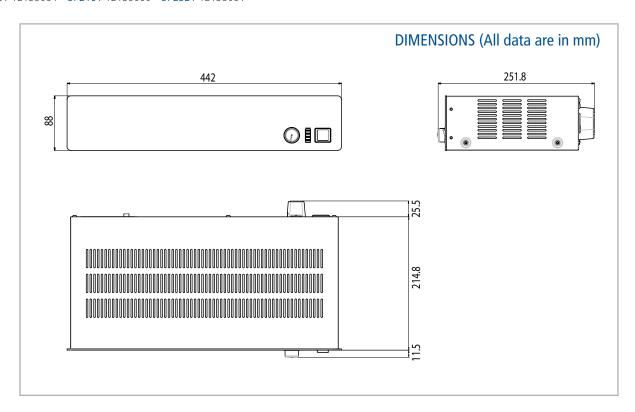


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PART NUMBERS

UP 2081 12135064 - UP2161 12135060 - UP2321 12135061



SPECIFICATIONS

AMPLIFIER

| Output power | 80 W RMS (UP 2081); 160 W RMS (UP 2161); 320 W RMS (UP 2321) |
|---------------------------------------|--|
| Frequency response (± 3 dB) | 50 Hz ÷ 13.5 kHz |
| Frequency response (± 6 dB) | 30 Hz ÷ 20 kHz |
| Signal / noise ratio Mic (1 \div 4) | 60 dB |
| Signal / noise ratio Aux | < 0,3 % (at 1 kHz, nominal power) |
| AUX Input tone controls | ± 8 dB @ 80 Hz (bass); ± 8 dB @ 13 kHz |
| Main Input presence control | + 10 dB @ 2,15 kHz |
| Main input High-pass filter | 150 Hz |
| Input Sensitivity (balanced) | - 56 dBu (max - 25 dBu) Low level Micro - 26 dBu (max 0 dBu) Low level Line - 7 dBu (max + 19 dBu) High level |
| AUX Input Sensitivity | Adjustable $-4 \div + 15$ dBu (max +22 dBu) |
| Input Impedance | 10 k Ω (Main Input); 20 k Ω (Aux Input); |
| Phantom power | 32 V / 18 mA |
| Loudspeaker Outputs min. | 4Ω (Low impedance) $70 \text{ V } (31\Omega)/100 \text{ V } (62\Omega)$ (Constant voltage UP 2081) $70 \text{ V } (31\Omega)/100 \text{ V } (62\Omega)$ (Constant voltage UP 2161) $70 \text{ V } (16\Omega)/100 \text{ V } (31\Omega)$ (Constant voltage UP 2321) |

| Protections Amplifier | Overload, Short circuit, Thermal |
|--------------------------|--|
| Protections Power supply | Fuses UP 2081 (T1.6AL - 250 V ;T3.15AL - 250 V) Fuses UP 2161 (T3.15AL - 250 V ;T6.3AL - 250 V) Fuses UP 2321 (T5AL - 250 V ;T10AL - 250 V) |
| Operating voltage | 220÷240 / 110÷120 V ~ 50 / 60 Hz |
| Power (consumption) | 160 W (UP 2081); 350 W (UP 2161); 600 W (UP 2321) |
| Dimensions (WxHxD) | 444 x 127 x 345 mm |
| Net weight | 3.8 kg (UP 2161); 4.8 kg (UP 2161); 6.2 kg (UP 2321) |
| Operating temperature | -25° to +55° |
| Relative humidity | 90% non condensing |

