CD-USB/MP3 DIGITAL RECEIVER AMPLIFIER



DESCRIPTION

ES 3160 is a mixer-amplifier with 4 mic-line audio inputs on removable connectors (the first input also has an XLR socket), CD/USB — MP3 player and tuner and an aux input for an additional external music source.

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

Input 1 has a signal detection circuit ('VOX') providing automatic priority operation.

All inputs 1, 2, 3 and 4 can access the priority through an external command (connected to the removable connector). Inputs 2 and 3 also have an RJ 45 socket for quick connection of an RCF BM 3001 paging microphone (through CAT5 cable).

A USB port (on the front panel) allows connection of a USB flash drive containing MP3 files.

Aux outputs are available to send the internal / external music source signals to additional amplifiers, mixers, phone systems ('music on hold' function), etc. The 4 mic.-line inputs have a common 'presence' control and separate high-pass filters that are useful for improving speech intelligibility.

Both the internal music source (CD/USB - MP3 player and tuner) and the AUX INPUT have separate tone controls.

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

CERTIFICATIONS AND APPROVALS

- CE: it complies with European Community 2006/95/CE LVD and 2004/108/CE EMC
- Electromagnetic immunity according to IEC EN 55013+A1+A2, IEC EN 55020+A2+EC, EN 61000-3-2, EN 61000-3-3+A1
- Electronic apparatus safety requirements according to IEC EN 60065:2002

INSTALLATION NOTES

ES 3160 has 4 footpads for desk-top positioning.

It can be mounted into a 19" rack cabinet (3 units) through the optional AR 3000 accessory. In this case, it is necessary to add 2 P/AER-1V (1 unit) panels (one above and one below the amplifier) to ensure proper air circulation and heat dissipation.

MAIN FEATURES

- Mixer amplifier, CD-USB/MP3 player FM tuner
- IR remote control for CD USB/MP3 player and tuner functions
- Full digital technology 160 W RMS amplifier, 70 100 V / 4 Ω outputs
- 4 universal inputs for removable screw-terminals and with phantom power supply, high-pass filters facility and a common presence control
- RJ45 ports on inputs 2 and 3 for connections of BM 3001 paging microphones
- Configurable priority settings, VOX facility on input 1
- Aux input with volume and tone controls for an external music source
- USB port on front panel allows reproduction of MP3 files from a flash-drive
- Music On Hold and PRE outputs
- · Chime and siren internal generator, activation through dry contacts
- Status / Priority / Audio Level LED indications

MAIN APPLICATIONS

- Restaurants
- Boutique
- Pub
- Beauty Centre
- Market
- Hotels
- Office building
- Medical centres

ACCESSORIES (included)

- 4 Male Audio Input connector 4 pole
- 1 Male Command Input connector 2 pole
- 1 Male Relay Input connector 3 pole
- 1 Male output connector 4 pole
- Safety protection cover for 100 V output connector
- Remote control unit
- 1 FM indoor antenna
- CR 2025 (3 V) lithium battery
- AC Power cord
- User's Guide
- Quick Start Instruction
- Warranty Card

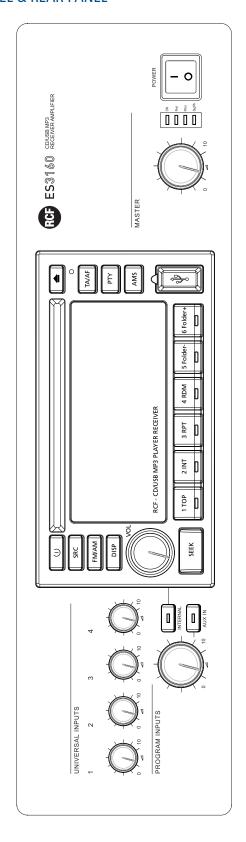
ACCESSORIES (not included)

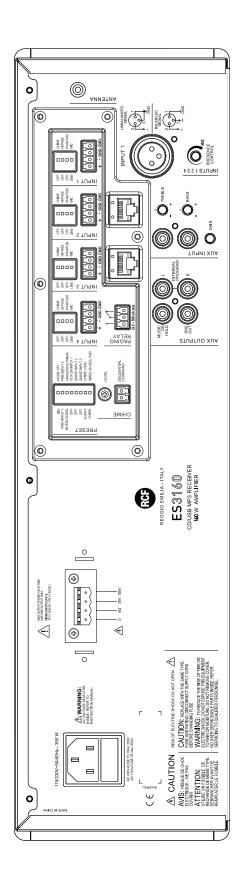
- AR 3000 rack mounting support 3 units (code 133 60 101 Optional)
- BM 3001 microphone console with CAT5 cable and RJ 45 connector (code 143 22 008 Optional)



ES 3160

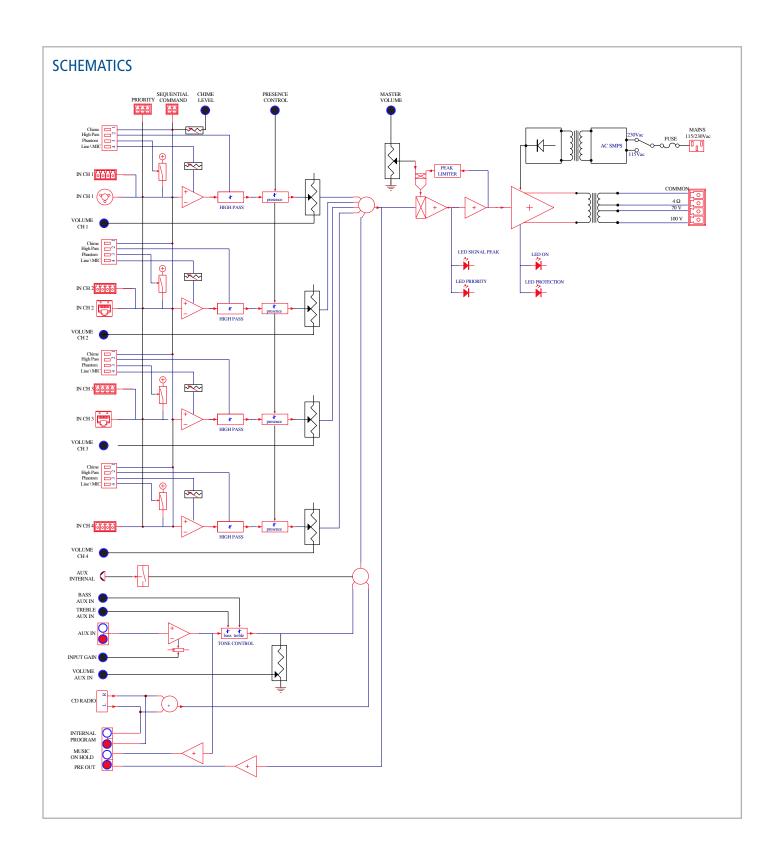
FRONT PANEL & REAR PANEL







ES 3160

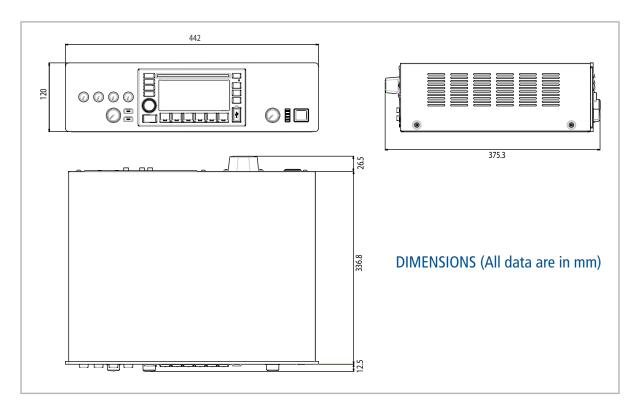




ES 3160

PART NUMBERS

12135057



SPECIFICATIONS

ΑN	1PI	IF	IFR

Output power	160 W RMS	
Frequency response (± 3 dB)	70 Hz ÷ 13.5 kHz	
Frequency response (± 6 dB)	30 Hz ÷ 20 kHz	
Signal / noise ratio Mic (1 \div 4)	65 dB (mic.), 80 dB (line)	
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 - 28 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	
AUX Output level	– 1 dBu / 600 Ω	
Loudspeaker Outputs min.	4 Ω (Low impedance) 70 V (31 Ω)/100 V (62 Ω) (Cv)	
Protections Amplifier	Overload, Short circuit, Thermal	
Protections Power supply	Fuses (T3.15AL - 250 V ;T6.3AL - 250 V)	
Operating voltage	220÷240 / 110÷120 V ~ 50 / 60 Hz	
Power (consumption)	350 W	
Dimensions (WxHxD)	444 x 127 x 345 mm	
Net weight	8 kg	
Operating temperature	-25° to +55°	
Relative humidity	90% non condensing	

RADIO TUNER

FM range	87.5 ÷ 108 MHz
FM frequency response	30 Hz ÷ 15 kHz
FM channel separation (1 kHz)	≥ 30 dB
FM Intermediate rejection	≥ 70 dB
FM Image rejection	≥ 50 dB
FM signal / noise ratio	≥ 55 dB
Antenna input	75 Ω – Coaxial

AUDIO CD PLAYER

Frequency response	20 Hz ÷ 20 kHz
Signal / noise ratio	≥ 86 dB
Total harmonic distortion (1 kHz)	< 0.2 %
Channel separation	≥ 60 dB



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