

10-CHANNEL MIXER PREAMPLIFIER



Description

The MA-1410 is a professional 10-channel mixer preamplifier for general sound reinforcement applications. It has 10 audio inputs with level control and output selector switches for master 1, master 2, master 1 + 2 outputs. Additionally, all 10 input channels have a MIC-LINE selector switch.

The device operates both on 230 V AC mains power and on 24 V DC power (e. g. emergency power supply).

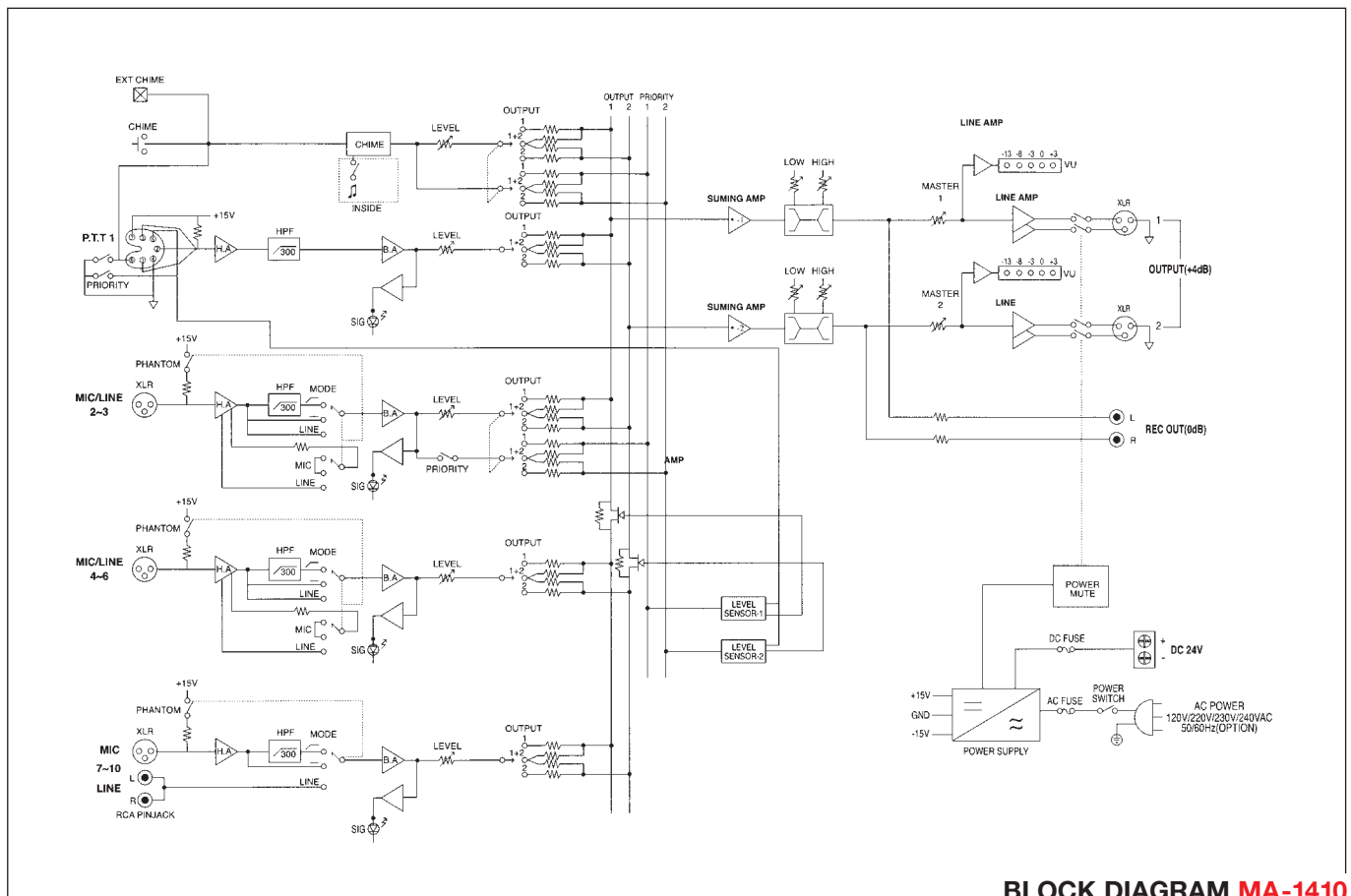
Please consider the following features:

- The unit includes an electronic 2-tone chime (selection can be made on the device). The chime can be activated manually on the front panel or automatically as pre-announcement chime via the VLM-100 desktop microphone station (P.T.T. DIN socket input).
- The chime type is switchable with jumper to 4 chime tone inside the device.
- The chime volume can be adjusted on the front panel. Additionally, there is another contact terminal on the rear which permits chime remote control.
- All input channels (10 + chime) have a selector switch on the front panel for switching the signal to master output 1, 1 + 2 or 2.
- The input channels 1 (P.T.T.), 2 and 3 (2 and 3 switchable) as well as the electronic chime automatically have priority (voice recognition) over input channels 4 - 10, which then are attenuated.
- Input channels 2 - 10 have a 3-position switch on the front panel which serves for the signal routing to LINE-MIC and the low-cut filter (300 Hz).
- Each input channel has a separate signal LED indicator.
- All input channels have XLR sockets. Inputs 7 - 10 are additionally equipped with RCA sockets for line signals.

- All MIC inputs have phantom power (+15 V DC). This means that both electret condenser microphones and balanced dynamic microphones can be connected to the XLR MIC inputs.
- Both master output channels have a dual-band equalizer and can be controlled separately on the front panel. Additionally, there is another output (REC-OUT) with RCA sockets.
- Multicoloured 5-segment master output level LED chains indicate the level for each channel.
- Apart from the numerous features such as balanced inputs and outputs, the 10-channel mixer preamplifier offers excellent sound characteristics, ease of installation and operation.

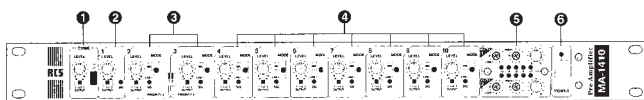
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Technical data	MA-1410
Inputs	MIC: -50 dBu (2.45 mV)/ 5 kohms, balanced, phant. power
	LINE: -10 dBu (245 mV)/ 5 kohms, balanced
	LINE IN RCA: -10 dBu (245 mV)/ 10 kohms, unbalanced
Outputs	MASTER 1 + 2: NOR +4 dBu (1.23 V)/200 ohms, balanced
	REC: NOR 0 dBu (0.775 V)/10 kohms, unbalanced
Frequency response	20 -20000 Hz, better than -0.5 dB
Signal-to-noise ratio	MIC: better than 60 dB, LINE: better than 75 dB
Crosstalk	MIC: better than 60 dB, LINE: better than 75 dB
THD	MIC: better than 0.05 %, LINE: better than 0.03 %
Power supply	230 V AC (50/-60 Hz), 24 V DC
Power consumption	9.9 W
Dimensions (W x H x D)	483 x 44 x 200 mm, (19," 1 RU)
Weight	approx. 3.9 kg



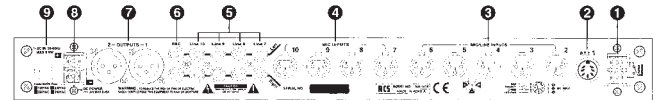
BLOCK DIAGRAM MA-1410

Front view



- 1 Chime section with button for 2-tone chime (switchable to 4-tone chime), volume control and sliding switch for master output 1, 1 + 2, 2.
- 2 P.T.T. input section with volume control and selector switch for master output 1, 1 + 2, 2.
- 3 Input 2 – 3 section with priority switch, volume control, selector switch for master output 1, 1 + 2, 2 and selector switch for Mic/Line low-cut filter.
- 4 Input 4 -10 section with volume control, selector switch for master output 1, 1 + 2, 2 and selector switch for Mic/Line low-cut filter.
- 5 Master output section with output volume controls, dual-band equalizer and multicoloured 5-segment LED chains for output level.
- 6 Power switch with power LED.

Rear view



- 1 Remote control connection for two-tone chime signal.
- 2 7-pin. DIN P.T.T. socket for connecting the VLM-100 microphone station with pre-announcement chime and priority.
- 3 Balanced XLR input sockets 2 to 6 with signal assignment for mic or line level.
- 4 Balanced XLR input sockets 7 to 10 for mic signal.
- 5 Unbalanced RCA sockets 7 to 10 for line signal.
- 6 REC output to RCA sockets.
- 7 Balanced XLR outputs for master output 1 and 2.
- 8 Terminal for 24 V DC power supply
- 9 Power cord for 230 V AC.