



# COM24

Public address amplifier 240W 100V

## Highlights:

- 2 unbalanced stereo line inputs
- 6 x Microphone input
- Priority audio inputs with phantom power
- Terminal block output connections
- Amplifier link in-& outputs
- Remote inputs, chime & mute contacts
- 5-zone output selector
- Low impedance & constant voltage output
- Table top or 19" rack installation

The COM series public address mixing amplifiers are providing an ideal solution for small to medium size commercial sound systems. Different configurations in terms of output power and connectivity provide enormous flexibility for numerous applications. The COM24 is capable of delivering an output power of 240 Watt to 100 Volt constant voltage systems or 4 Ohm low impedance loads. Six input channels with individual level control allow connectivity and mixing to a wide variation of music sources. Four balanced microphone inputs (XLR) containing phantom power (15V) and two priority allow connection for almost any (dynamic or condenser) microphone. Two inputs selectable between stereo unbalanced line (RCA) and microphone (6.3mm Jack) allow connection for any source such as CD-player, music computer or portable device, or enable to expand the total microphone count to 6. The remote microphone and tele-paging inputs allow expansion of the system with a paging station (with chime tones) or couple the system with your business telecom system (or any other priority line source). Using the priority mute contact, coupling and muting can be done through an external fire alarm system. The output level can be adjusted using a master volume control accompanied with 2-band tone regulation. The level is indicated with a 5-segment VU-bar while output selection is made possible using an integrated 5-zone speaker switcher. Both table-top installation or 19" (2HE) equipment rack mounting is made possible using the included adapters.



## System specifications:

RMS Power			240 W
Frequency	Response ( $\pm 3$ dB)		20 Hz - 20 kHz
Signal / Noise			> 90 dB
THD+N (@ 1 kHz)			< 0.5%
Crosstalk (@ 1 kHz)			> 70 dB
Technology			Class-D
Power	Supply		Transformer
	Source		230 ~ 240 V AC / 50 ~ 60 Hz
Common mode rejection ratio			70 dB
Inputs	Balanced Microphone 1 - 4	Type	4 x Balanced Mic./Line (-6 dB / -50 dB)
		Connector	2 x XLR/Jack Combo & 2 x XLR
		Other	4 x 15 V DC Phantom & 2 x Priority
	Balanced Microphone 5	Type	1 x Balanced Mic./Line (-6 dB / -50 dB)
		Connector	6.3 mm Jack
		Unbalanced Stereo	1 x Stereo Unbalanced Line (+14 dB / -30 dB)
	Other	Connector	RCA
			Remote mic (Priority mic + chime)
			Tele-paging (Priority line)
	Outputs	Connector	
			10-pin Euro Terminal Block (Pitch - 5.08 mm)
Voltage / Impedance			100 V / 4 $\Omega$
Protection			DC Short circuit
			Over heating
			Over load
			Signal limiting
Cooling			Convection cooled
Operating temperature			0° ~ 40° @ 95% Humidity

## Product Features:

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Dimensions		420 x 88 x 320 mm (W x H x D)
Weight		11 kg
Mounting		19" / 2 HE or tabletop
Construction		Steel
Colours		Black
Accessories	Included	19" Rackmount adapter

## Variants:

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- COM24MK2-UK - UK plug
- COM24MK2 - Mk2 version

## Shipping & Ordering:

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Packaging	Cardboard box
Shipping weight & volume	12.400 kg - 0.042 Cbm

## Architects' and Engineers' Specifications:

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The amplifier shall be a public address mixing amplifier capable of delivering an output power of 240 Watt to both 100 Volt constant voltage and 4 Ohm low impedance systems. The construction shall be made using Class-D amplifier technology with an 100 V output transformer. It shall contain integrated circuitry to protect against short-circuits or mismatched loads and over-heating. Additionally, the load shall be protected against DC faults and a clip limiter shall automatically reduce the input gain at onset of distortion. The front panel shall contain an AC power switch accompanied by a blue power indicator LED and 5-segment LED VU bar indicating the operation and output level of the amplifier. The output level is adjustable using a master volume control and shall be accompanied with 2-band tone regulation. Six input channels with individual level controls shall be provided, offering great input flexibility and source compatibility. Four balanced microphone inputs with balanced XLR connectors and phantom power allow the connection for almost any type of microphone, while two can be switched to priority. Two additional inputs are selectable between stereo line or microphone level. The gain for the microphone inputs allows adjustment within a range of -6 dB to -50 dB, while the line inputs can be regulated over +14 to -30 dB. Other connections and functions such as remote microphone, tele-paging, announcement chime shall be implemented too. Output selection shall be possible using a 5-zone speaker switcher on the front, while connections are performed on the back using a 10-pin terminal block connector for constant voltage integration and 2-pin for low impedance connections. The amplifier shall operate on a 230~240 V AC / 50~60 Hz mains network and shall be equipped with a fixed power cord having a standard shuko (CEE 7/7) AC plug with fused power inlet. The chassis shall be steel constructed table-top housing with included rackmount adapters for 19" equipment rack installation (2HE). Depth from front panel / mounting surface to rear panel shall be 320 mm and the weight shall not exceed 11.0 Kg.