



COM12 MK2

Public address mixing amplifier

► Features

- 120 Watt RMS output power
- 5-Zone output selector
- Low impedance & constant voltage output
- Variety of line & microphone inputs
- Phantom power (4x) & priority (2x) on Mic
- Remote microphone & telephone paging
- Individual input level control
- Priority mute contact
- Table top or 19" rack installation

► Applications

- Small to medium commercial installations
- Retail & warehouses
- Bars & restaurants
- Schools & public buildings
- Office buildings
- ...



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 an enormous flexibility for numerous applications.

The COM12 is capable of delivering an output power of 120 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 (15 V) and two priority allow connection for almost any (dynamic or condenser) microphone. Two inputs selectable between stereo unbalanced line (RCA) and microphone (6.3 mm 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 a n integrated 5-zone speaker switcher.

Both table-top installation or 19" (2HE) equipment rack mounting is made possible using the included adapters.

► Specifications

| SYSTEM SPECIFICATIONS | | | |
|---|-----------------------------|-------------------|---|
| RMS Output power | 120 Watt | | |
| Frequency response | 20 Hz - 20 kHz | | |
| Signal to noise ratio | > 90 dB | | |
| THD+N by 1 kHz (1/2 Rated Power) | < 0.5 % | | |
| Crosstalk | > 70 dB | | |
| Technology | Class A/B | | |
| Power supply | Transformer | | |
| Power supply range | 230 ~ 240 V AC / 50 ~ 60 Hz | | |
| Common mode rejection ratio | 70 dB | | |
| Inputs | 1~4 | Type | Balanced mic/line (-6 dB / -50 dB) |
| | | Connectors | 2 x XLR/Jack Combo & 2 x XLR |
| | | Other | 15 V DC Phantom (4x) & Priority (2x) |
| | 5~6 | Type | Stereo unbal. line (+14 dB / -30 dB) (1) Balanced mic/line (-6 dB / -50 dB) (2) |
| | | Connectors | RCA (1) & 6.3 mm Jack (2) |
| Outputs | Connectors | Extra | Remote mic (Priority mic + chime) Tele-paging (Priority line) Priority mute contact |
| | | | Terminal block 5.08 mm (2-pin+10-pin) |
| | | Voltage/Impedance | 4Ω / 100V (70V & 25V by internal adjustment) |
| Protection | Amplifier | | DC Short-circuit |
| | | | Over heating |
| | | | Over load |
| | | | Signal limiting |
| Cooling system | Convection cooled | | |
| Operating temperature | 0° ~ 40° at 95% Humidity | | |
| PRODUCT FEATURES | | | |
| Dimensions (Width x Height x Depth) | 420 x 88 x 320 mm | | |
| Weight net | 9.7 Kg | | |
| Mounting | 19" / 2 HE or tabletop | | |
| Construction | Steel | | |
| Colour | Black | | |
| SHIPPING & ORDERING | | | |
| Packaging | Carton box | | |
| Shipping weight and volume | 11 Kg - 0.042 Cbm | | |
| Accessories included | 19" Rackmount adapter | | |
| *AUDAC reserves the right to change specifications without notice: this is part of our policy to continually improve our products | | | |

► Architects' and Engineers' Specifications

The amplifier shall be a public address mixing amplifier capable of delivering an output power of 120 Watt to both 100 Volt constant voltage and 4 Ohm low impedance systems. The construction shall be made using Class-AB 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 9.7 Kg.

► Block diagram

