

# 14M 28M



The Crown® 14M and 28M are high-value mixers for commercial and industrial audio. The mixers are part of Crown's Commercial Audio Series, which also includes mixer-amplifiers and power amplifiers. These low-cost units provide all necessary features in a simple building-block format.

Some applications include schools, hospitals, factories, restaurant/retail, houses of worship, fitness facilities, A/V boardrooms, prisons, and small offices. Typical uses are paging, background music, security and evacuation instructions.

The 14M has 4 inputs and 1 output channel. The 28M has 8 inputs and 2 output channels.

Input routing allows each input to be assigned to any output.

The sound system can be upgraded as a facility expands. For example, you can add more mixers for more inputs, or add more power amps (or mixer-amps) to handle more zones.

Other features include priority muting and phantom power.

## Specifications

### Performance

**Frequency Response (at line out):** 20 Hz to 20 kHz +/- 1 dB.

**Signal to Noise Ratio (master volume at minimum):** 100 dB.

**THD:** 0.05% typical with 800 mV balanced input, 1V output.

**Input Sensitivity (volts RMS for full output at maximum gain):**

Balanced mic inputs: 3 mV.  
Balanced line inputs: 800 mV.  
RCA connectors: 400 mV.

**Input Impedance (nominal):**  
Mic: 400 ohms.  
Line: 100 kilohms.  
RCA: 50 kilohms.

**Crosstalk (all controls at "10"):** -50 dB at 1kHz.

**Line Output Level (nominal):** 1.2 V into 10 kilohms.

**Phantom Power:** 15 VDC.

### AC Line Voltages Available:

100V 50/60 Hz  
120V 60 Hz  
220V 50/60 Hz  
230V 50/60 Hz  
240V 50/60 Hz

**Operating Temperature/Humidity:** 0° C to 40° C at 95% relative humidity (non-condensing).

**Storage Temperature:** -20° C to 85° C.

## Features

- 4 or 8 inputs, 1 or 2 output channels
- Ideal for commercial and industrial use
- Balanced Phoenix-type mic/line inputs; RCA inputs
- Balanced Phoenix-type line outputs
- Any input can be sent to any output
- Priority muting
- Independent bass and treble controls for each input
- Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

### Front Panel Controls and Indicators

**Power Switch:** Pushbutton on-off switch. The power switch does not affect the 24V DC auxiliary power input.

**Input Volume Controls:** Microphone/line, four in 14M, eight in 28M. Detented potentiometers with knobs.

**Tone Controls:** Bass and Treble non-detented potentiometers on each input channel. Bass  $\pm 10$  dB at 100 Hz, Treble  $\pm 10$  dB at 10 kHz.

**Power Indicator:** Blue LED indicates power on.

**Input Signal Presence Indicator:** Green LED, one for each input channel, illuminates when input signal exceeds -24 dBu (line) or -70 dBu (mic).

**Output Signal Presence Indicator:** Green LED, one for each output channel, illuminates when output signal level exceeds 100 mV.

**Clip Indicators:** Red LED, one per output channel. Illuminates at threshold of audible distortion.

**Output Volume Controls:** One per output channel. Detented potentiometer with knob.

### Back Panel Controls and Connectors

**Fuse:** Protects the power supply.

**AC Power Inlet:** Detachable IEC.

**Auxiliary Power Input:** 2-position terminal strip for 24 VDC ( $\pm 10\%$ ) backup power. Accepts up to 10 AWG terminal forks.

**Mixer Config Switch:** A DIP switch with two functions:

1. Assigns an input as the priority input for each output, thereby temporarily muting the remaining inputs. Muting is activated by contact closure.
2. Global enable switch for phantom power. Does not affect RCA inputs. Default position is off.

**Priority Connector:** 3-pin Phoenix-type connector allows Input 1 or Input 5 (28M only) to mute other input signals by contact closure.

**Input Routing Switch (28M only):** DIP switches that assign each input signal to each output. Two switches per input.

**Line Out Connector:** One 3-pin balanced Phoenix-type connector per output channel. Level controlled by master volume control.

**Input Connectors:**  
Mic/Line Connector: 3-pin Phoenix-type, balanced, one per input channel.

Dual RCA Input Connector: For stereo music signals, unbalanced, summed together, two connectors per input channel.

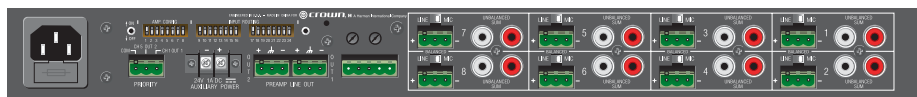
The tone generator has been omitted. Call Crown Tech Support if you have a tone generator question.

**Mic/line Switch:** Selects mic-level or line-level signals. One switch for each balanced input.



INSTALLED

14M  
28M



28M back panel shown

### Included Accessories

- Power cord
- Detachable rack ears
- Phoenix-type connectors
- Spade lugs

### Dimensions

EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B) with rack ears, 1.7-inch (4.3-cm) height and 10.7-inch (27.18-cm) depth behind the mounting surface.

### Weight

#### Net Weight:

- 14M: 8.7 lb (3.9 kg)
- 28M: 8.7 lb (3.9 kg)

#### Shipping Weight:

- 14M: 14 lb (6.4 kg)
- 28M: 14 lb (6.4 kg)

### Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown mixer—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown mixer is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your mixer fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your mixer.

See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 574-294-8200.



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