



## COMMERCIAL AUDIO SERIES

# 28M

## Architectural & Engineering Specifications

### 28M

The Crown® 28M shall be a mixer for commercial and industrial audio. It has 8 inputs and 2 output channels for two-zone systems.

### Specifications

The 28M shall have the following specifications:

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 (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"): -70dB 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 degrees C to 40 degrees C at 95% relative humidity (non-condensing). Storage Temperature: -20 degrees C to 85 degrees C.

### Front Panel Controls and Indicators

Front panel controls and indicators shall include the following:

Power Switch: Pushbutton on-off switch. The power switch shall not affect the 24V DC auxiliary power input. Input Volume Controls: eight microphone/line, detented potentiometers with knobs. Output Volume Controls: One per output channel, detented potentiometer with knob. Tone Controls: Bass and Treble non-detented recessed 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 input channel, illuminates when input signal exceeds 100 mV. Clip Indicators: Red LED, one per output channel, illuminates at threshold of audible distortion.

### Rear Panel Controls and Connectors

Rear panel controls and connectors shall include the following:

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 14 AWG terminal forks. Mixer Config Switch: A DIP switch with two functions which shall be 1. Assign 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, shall not affect RCA inputs. Priority Connector: 3-pin Phoenix-type connector shall allow Input 1 or Input 5 to mute other input signals by contact closure. Input Routing Switch: DIP switches shall 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 shall include a Mic/Line Connector of 3-pin Phoenix-type, balanced, one per input channel, and a dual RCA Input Connector for stereo music signals, unbalanced, summed together, two connectors per input channel. Mic/line Switch: Selects mic-level or line-level signals, one switch for each balanced input.

### Miscellaneous

Included accessories shall be a power cord, detachable rack ears, Phoenix-type connectors, and spade lugs.

The dimensions of the mixer shall allow for 19 inch (48.3 cm) EIA standard (RS-310-B) rack mounting. The mixer shall be 1.7 inches (4.3 cm) high, and 14 inches (35.6 cm) deep behind the rack-mounting surface.

The mixer shall weigh 8.7 lb (3.9 kg).

The mixer shall be designated the Crown 28M.



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