



COMMERCIAL AUDIO SERIES

140MPA

Architectural & Engineering Specifications

140MPA

The Crown® 140MPA shall be a mixer-amplifier for commercial audio. It shall provide 4-ohm and constant-voltage outputs (25V and 70V).

The 140MPA shall have 4 inputs (each with a volume control) and one 40W power amplifier.

Specifications

The 140MPA shall have the following specifications:

Frequency Response (at 1 watt from 4-ohm tap): 50 Hz to 15 kHz +/- 1 dB.
Frequency Response (at line out): 50 Hz to 15 kHz +/- 1 dB. Power Bandwidth (at 4-ohm tap, 2 dB below maximum 1 kHz power): 50 Hz to 20 kHz with < 0.5% THD. Signal to Noise Ratio (ref. to rated power, master volume at minimum): >90 dB. DC Output Offset: < +/- 5 mV. THD: < 0.5% at rated power at 1 kHz. 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: -70dB at 1kHz. Line Output Level (nominal): 1V into 10 kilohms. Phantom Power: 15 VDC. AC Line Voltages Available: 120V/60Hz. Line voltage tolerance +15%, -20%. Operating Temperature/Humidity: 0° C to 40° C at 95% relative humidity (non-condensing). Storage Temperature: -20° C to 85° C.

Front Panel Controls and Indicators

Front panel controls and indicators shall include the following:

Power Switch: Pushbutton on-off switch. Input Level Controls: Four controls, one per input, detented potentiometers with knobs. Tone Controls: Bass and Treble non-detented recessed potentiometer on each input channel. Bass +/- 10 dB at 100 Hz, Treble +/- 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 -40 dBu. Output Signal Presence Indicator: Green LED illuminates when output signal level exceeds 100 mV (45 dB below full power) from the 4-ohm tap. Clip Indicator: Red LED on output illuminates at threshold of audible distortion. Master Output Volume Control: Detented potentiometer with knob.

Back Panel Controls, Connectors and Indicators

Back panel controls, connectors and indicators shall include the following:

Reset Switch: Resets the circuit breaker that protects the power supply. AC Power Inlet: Detachable IEC. Amplifier Output Connector: 4-position terminal strip with COM (Common), 4 ohms, 25V and 70V terminals, accepts up to 10 AWG terminal forks, non-touch cover included. Output VCA Connector: 4-pin Phoenix-type connector for two VCA control lines of +10 VDC and ground, compatible with Crown 1-VCAP module. Priority Connector: 3-pin Phoenix-type connector for push-to-talk mic contact closure. Preamp Line Out Connector: 3-pin balanced Phoenix-type connector, post master, pre-VCA, level controlled by master volume control. MOH 1V Level Control: Trim pot adjusts level for Music-On-Hold 1V output. MOH 1W Level Control: Trim pot adjusts level for Music-On-Hold 1W output. MOH SPI Indicator: Flashes when MOH signal is present. MOH 1V Phoenix Connector: 3-pin Phoenix connector for 1V, 600-ohm transformer-isolated output. MOH 1W Phoenix Connector: 3-pin Phoenix connector for 1W output. MOH 1V RCA Connector: Two mono RCA connectors for 1V output (in parallel with 600-ohm connections so they are isolated). Balanced Input Connector: Detachable 3-pin Phoenix style connector for balanced line-level signals, one each for input channels 2-4. Balanced Input Connector: Detachable 3-pin Phoenix style connector for balanced mic-level line-level signals, for input channel 1. Tel Connector: Transformer-isolated 600-ohm input, summed into Input 1 for paging from a telephone system. Dual RCA Input Connector: For stereo music signals, unbalanced, summed

together, two connectors per input channel. Amp Input Connector: 3-pin Phoenix-type, high-impedance balanced, used to link an additional mixer to the mixer-amplifier, can be used to connect an external processor. Mic/line Switch: Selects mic-level or line-level signal for Input 1. Phantom Power Switch: Turns phantom power on or off for Input 1. VOX Threshold: Trim pot controls how loud the voice must be before ducking occurs; can be set for no ducking. Link In/Out Switch: Slide switch. When set to IN, any signal applied to the Amp Input connector will be mixed with the input signal(s). When set to OUT, only the signal from the Amp Input Connector will appear at the amplifier output. Priority Connector: 3-pin Phoenix-type connector for push-to-talk mic contact closure. Input 1 is the priority input for the amplified output, so Input 1 ducks the other inputs. Threshold of activation depends on input voltage. Ducking does not affect MOH outputs. Active Indicator: Illuminates when VOX ducking is active.

Miscellaneous

Cooling: Convection cooled. Current Limit Protection: Included. Thermal Limit Protection: Over-temperature thermal cutout. DC-Fault Load Protection: Included. Turn On/Turn Off: No thumps or pops. Included accessories: power cord, detachable rack ears, screws for rack ears, non-touch cover for output connectors, Phoenix-type connectors, spade lugs.

The dimensions of the 140MPA shall be as follows:

Width (without rack ears): 17.3 in. (43.8 cm).

Width (with rack ears): EIA Standard 19 in. W (EIA RS-310-B).

Height (front panel): 3.5 in. (8.9 cm).

Height (including feet): 4.1 in. (10.5 cm).

Depth (front panel to back panel): 12.2 in. (31.0 cm).

Depth (front of knobs to back of non-touch cover): 13.9 in. (35.2 cm).

The mixer-amplifier shall weigh 17 lb (7.7 kg).

The mixer-amplifier shall be designated the Crown 140MPA.



A Harman International Company

Crown International
1718 W. Mishawaka Rd.
Elkhart, IN 46517-9439
TEL: 574-294-8200
FAX: 574-294-8FAX
www.crownaudio.com

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