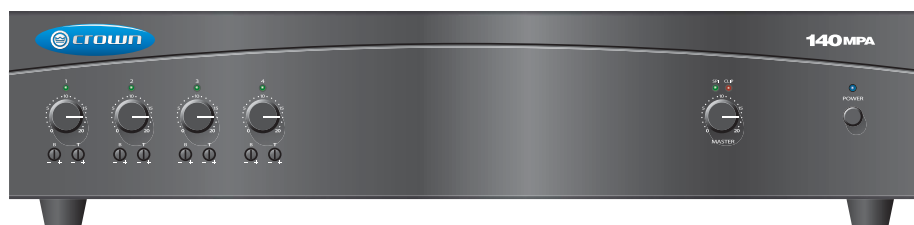


**COMMERCIAL AUDIO SERIES**

# 140MPA



The Crown® 140MPA is a high-value mixer-amplifier for commercial audio. It provides 4-ohm and constant-voltage outputs (25V and 70V). Typical uses are paging, background music, and music-on-hold.

The unit provides 4 inputs (each with a volume control) and a 40W amplifier output.

Other features include priority ducking, phantom power, and capability for remote volume control. Multiple units can be linked.

## Specifications

### Performance

**Frequency Response (at 1 watt from 4-ohm tap):** 50 Hz to 15 kHz  $\pm$  1 dB.

**Frequency Response (at line out):** 50 Hz to 15 kHz  $\pm$  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:**  $<$   $\pm$ 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:**  $-20^{\circ}$  C to 85° C.

## Features

- 4 inputs (each with a volume control), one 40W amplifier output channel
- Ideal for paging, background music, and music-on-hold
- Balanced Phoenix-type mic/line inputs, telephone input, dual RCA stereo music inputs, touch-proof screw-terminal speaker outputs
- Priority ducking
- 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.

**Input Volume Controls:** Four controls, one per input. Detented potentiometers with knobs.

**Tone Controls:** Bass and Treble non-detented recessed potentiometer 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  $-40$  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

**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.

## 140MPA

Minimum guaranteed power into 4 ohms or 25V/70V output

\*1 kHz Power

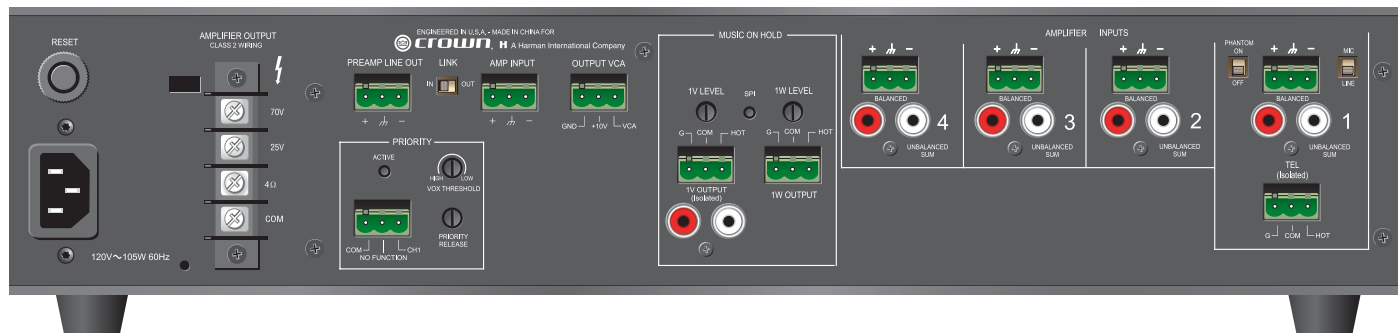
**40W**

\*1 kHz Power: refers to maximum power in watts at 1 kHz with 0.5% THD.



INSTALLED

# 140MPA



140MPA back panel

**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.

### Cooling

Convection cooled.

### Protection

**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

### Optional Accessories

- 1-VCAP remote volume control

### Dimensions

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).

### Weight

#### Net Weight:

17 lb (7.7 kg).

#### Shipping Weight:

22 lb (9.98 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-amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown mixer-amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your mixer-amplifier 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-amplifier.

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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