

MPC-M50

MPC Media Presentation Controller M50

- > Wall mount 2-Series control system
- > Programmable LCD graphic display
- > Volume control and menu navigation knob
- > 7 programmable buttons with LED feedback
- > Customizable backlit button labels
- > Built-in IR receiver and light sensor
- > 2 RS-232, 2 IR, 4 input, & 6 relay control ports
- > Cresnet® and 10/100 Ethernet communications
- > Onboard e-Control® Web server
- > RoomView® and SNMP remote management
- > SSL (Secure Sockets Layer) network protection
- > Astronomical time clock
- > Rugged construction
- > 3-gang wall-mountable
- > Available in white or black
- > Includes external Cresnet power supply

Crestron® MPC is a family of 2-Series control systems designed for installation in a wall or podium, delivering the industry's best multimedia room control technology in a convenient, space-saving design. Perfect for classrooms, meeting rooms, lecture halls, and training facilities, the MPC-M50 provides a fully-programmable user interface featuring illuminated LCD display, pushbuttons with customizable backlit labeling, volume control, and wireless remote capability.

Available in white or black, the MPC-M50 is constructed to handle the rigors of everyday use in a corporate or educational environment. Numerous programmable control ports afford plentiful connectivity for a roomful of audio, video, and lighting equipment. The onboard e-Control® Web server provides for complete integration as part of a facility-wide managed control network.

Control...Simplified

The MPC-M50 is engineered to be easy to integrate and use, yet versatile enough to suit each application perfectly. Its front panel features a large LCD display with 4 "soft keys," plus 7 "hard key" buttons with LED feedback, and a volume control knob, all which can be freely programmed for controlling system functions like power, source selection, transport control, audio settings, lighting, and much more. The continuous-turn "volume" knob provides quick access for adjusting audio volume and setting values on the LCD display. The soft keys are used to actuate menu functions that appear on the display, while the hard keys and LEDs provide immediate access to the most commonly used functions. Custom backlit labeling of the hard keys is facilitated using an assortment of pre-printed labels or Crestron Engraver software.



Wireless Remote

A range of options is available for adding wireless remote control to the MPC system. Its built-in IR receiver allows use of any Crestron IR wireless touch screen or handheld remote without requiring a separate receiver or gateway. For greater range and freedom of movement, MPC also supports the full line of Crestron RF wireless and WiFi based products.

Wired Expansion

With Cresnet® and Ethernet built-in, the MPC-M50 works seamlessly with the entire Crestron line of keypads and touch screens, lighting dimmers and shade controllers, signal processors and switchers, and much more.

Built-in Control Ports

Through a host of onboard control ports, the MPC-M50 interfaces directly with video displays and projectors, DVD players, TV receivers, projection screens, lifts, occupancy sensors, and other devices in the room. In addition to Cresnet and high-speed Ethernet, there are two bidirectional RS-232 COM ports, two IR/serial ports, six isolated relays, and four input ports right on the rear panel.

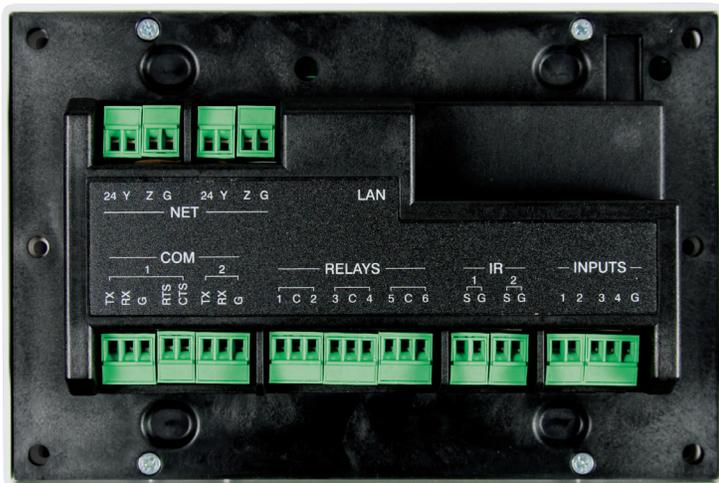
Audio and Video Control

The MPC-M50 is ideal for all kinds of small to medium sized room systems. Like any 2-Series control system, MPC is fully scalable to suit applications with numerous program sources, microphones, and multiple displays. Use it to control any Crestron AV switcher or signal processor, or as the front end for a complete [DigitalMedia™](#) or [QuickMedia®](#) system for a total signal routing, processing, and amplification solution.

Ethernet and e-Control®

Built-in 10/100 Ethernet facilitates secure high-speed network connectivity, enabling extensive capabilities for remote system maintenance and control, and providing an interface to other Crestron control systems. The onboard Web server provides the foundation for Crestron exclusive [e-Control Xpanel](#) technology, providing secure IP-based remote control. SSL encryption prevents hackers from breaching the system and accessing its controls.

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MPC-M50 – Rear View

RoomView® and SNMP

The MPC-M50 communicates directly with Crestron RoomView® help desk software, the industry's most comprehensive facility-wide solution for remote monitoring and asset management. Built-in SNMP support also enables integration with third-party network management software, allowing full control and monitoring from the IT Help Desk or NOC in a format that's familiar to IT personnel.

Cresnet® Slave Mode

Selectable Cresnet Slave Mode enables the MPC-M50 to become a Cresnet controller and expansion module as part of a larger Crestron system, providing a deluxe user-interface with local control ports built in for interfacing to nearby devices.

Ambient Light Sensor

The MPC-M50's built-in light sensor has a range of uses, from controlling its own backlight intensity, to providing ambient lighting level data to a central building management system.

SPECIFICATIONS

Memory

SDRAM: 32 MB

NVRAM: 256 KB

Flash: 8 MB

Time Clock

Accuracy: ±1 minute per year

Operating System

Real-time, preemptive multi-threaded/multitasking kernel; FAT32 file system with long names; supports SIMPL Windows and SIMPL+®

Ethernet

10/100BaseT, auto-negotiating, full/half duplex, static IP or DHCP, DNS,

SSL, TCP/IP, UDP/IP, CIP, SMTP, SNMP, built-in Web server and e-mail client; supports Crestron e-Control® XPanel and RoomView® applications

Connectors

NET: (2) sets of (4) captive screw terminals; Cresnet port and 24 Volt DC power input with parallel pass-thru; Master/Slave selectable

LAN: (1) 8-wire RJ45 with 2 LED indicators; 10/100BaseT Ethernet port; Green LED indicates link status; Yellow LED indicates Ethernet activity

COM 1: (5) captive screw terminals; Bidirectional RS-232 port; Up to 115.2k baud; hardware and software handshaking support

COM 2: (3) captive screw terminals; Bidirectional RS-232 port; Up to 115.2k baud; software handshaking only

RELAYS 1 – 6: (9) captive screw terminals comprising (6) normally open, isolated relays (every two share a common); Rated 1 Amp, 30 Volts AC/DC; MOV arc suppression across contacts

IR 1 – 2: (4) captive screw terminals comprising (2) IR/Serial output ports; IR output up to 1.2 MHz; 1-way serial TTL/RS-232 (0-5 Volts) up to 115.2k baud

INPUTS 1 – 4: (5) captive screw terminals comprising (4) digital or analog input ports (referenced to GND); Digital Input: Rated for 0-24 Volts DC, input impedance 20k ohms, logic threshold 1.25 Volts DC; Analog Input: Rated for 0-10 Volts DC, protected to 24 Volts DC maximum, input impedance 20k ohms; Programmable 5 Volts, 2k ohms pull-up resistor per pin

Computer: (1) USB Type B female (behind front cover); USB 1.1 computer console port

Ground: (1) flying lead, chassis ground wire

LCD Display

Green LCD dot matrix, 128 x 64 resolution, adjustable LED backlight; Supports dynamic text and icon graphics, scrolling text, and scrolling lists

Controls and Indicators

VOLUME: (1) Programmable continuous turn rotary encoder for volume adjustment, navigating menu, scrolling lists, and adjusting values

MUTE: (1) Programmable pushbutton

HOME: (1) Pushbutton, returns to the home page

▲, ▼: (2) Pushbuttons, scroll up or down through menu and adjust menu parameters

ENTER: (1) Pushbutton, executes highlighted menu or value

Soft Keys: (4) pushbuttons for activation of LCD driven functions

Hard Keys: (7) Programmable pushbuttons with backlit labeling

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Feedback Indicators: (7) Programmable red LEDs (1 per hard key)
HW-R: (1) Recessed miniature pushbutton for hardware reset (reboots the processor)
SW-R: (1) Recessed miniature pushbutton (behind front cover) for software reset (restarts the SIMPL program)

Light Sensor

Photosensor, programmable for auto-dimming of front panel labeling and other functions

IR Receiver

Reception Frequency: 36 to 38 kHz IR
Formats: Crestron format, RC5
Range: Up to 50 ft line of sight (typical), dependent upon angle, obstructions, IR interference, and IR remote signal strength

Power Requirements

Cresnet Power Usage: 10 Watts (0.42 Amps @ 24 Volts DC) ; PW-2407RU power supply included

Available Cresnet Power: 8 Watts using PW-2407RU (included)

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 20 BTU/hr

Enclosure

Faceplate: High-impact plastic, black or white, with polycarbonate label overlay
Chassis: Injection-molded plastic with steel mounting plate
Mounting: Requires 3-gang plaster ring or electrical box (≥2.5 inch deep recommended)

Dimensions

Height: 4.50 in (11.43 cm)
Width: 6.70 in (17.02 cm)
Depth: 2.23 in (5.67 cm)

Weight

1.33 lb (0.61 kg)

MODELS & ACCESSORIES

Available Models

MPC-M50-B-T: Media Presentation Controller M50, Black
MPC-M50-W: Media Presentation Controller M50, White

Included Accessories

PW-2407RU: 18 Watt Cresnet® Power Supply, US/International (Qty. 1 included)

Available Accessories

MP/MPC/IPAC_FRONT_LABEL_ENGRAVED-B-T: Custom Engravable Backlit Labels, Black
MP/MPC/IPAC_FRONT_LABEL_ENGRAVED-W: Custom Engravable Backlit Labels, White
TTK-MP/MPC/IPAC: Table Top Kit
SMK-MP/MPC/IPAC: Swivel Mount Kit
CNSP-XX: Custom Serial Interface Cable
IRP2: IR Emitter Probe
MP-B10: Media Presentation Button Panel B10
MP-B20: Media Presentation Button Panel B20
MP-WP Series: Media Presentation Wall Plates
MP-AMP30: Media Presentation Audio Amplifier
SW-ROOMVW-ENT: RoomView® Express - Remote Help Desk and Resource Management Software
SW-ROOMVW-SERVER: RoomView® Server Edition - Enterprise Management and Scheduling Software
SW-FUSION-RV: Fusion RV™ Enterprise AV and Technology Management Software

Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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