MPC4-302

4-Series® Media Presentation Controller 302



- *Crestron 4-Series® Control System automated processor and control panel*
- *Mounts flush on a wall or lectern and fits in a 3-gang U.S. electrical box*
- *Features ten customizable buttons, rotary volume control, and power/mute buttons*
- *Fully-programmable functionality*
- *Built-in .AV Framework™ software*
- *High-speed Ethernet LAN port*
- *Onboard Cresnet® network, RS-232, IR, relay, and Versiport control ports*
- *iPhone®, iPad®, and Android™ device control app support*
- *XPanel computer and web based control*
- *XiO Cloud® service provisioning and management support*
- *SNMP remote IT management support*
- *Native BACnet™ network/IP support*
- *Installer setup via software, web browser, or cloud*
- *Drag-and-drop, C#, and symbol based programming environments with full Unicode (multilanguage) support*
- *Enterprise-grade security and authentication*
- *IPv6 ready*
- *PoE+ network powered*

The MPC4-302 is a wall-mounted, PoE-powered 4-Series® Control System automated processor and control panel in one. Its customizable backlit capacitive buttons provide an ideal user interface for controlling AV and other functions. It offers fully-programmable functionality, supports web and cloud-based configuration and management, and integrates with XiO Cloud® software as part of a complete managed enterprise solution.

Crestron® MPC4 series controllers are perfect for classrooms, meeting rooms, lecture halls, and training facilities. Use the MPC4-302 to control a video display or AV system, adjust lighting and window shades, or perform a custom function via programming.

Customizable Backlit Buttons

The MPC4-302 features ten backlit buttons, which can each be labeled using the icon chips provided, or custom labeled using laser-engravable chips. Each button is backlit blue when active and white when inactive to provide clear indication of what media source or lighting scene is currently selected. A volume knob is included, encircled by a blue volume gauge to indicate the audio volume setting. Additional buttons are provided for power and mute control.

All buttons on the MPC4-302 are custom programmable to control any device or function. Built-in autobrightness control maintains optimal visibility of the buttons under varying lighting conditions.

> **NOTE**: For information about ordering custom button labels, refer to the MPB4/MPC4-BTN5-B ENGRAVED (black) or MPB4/MPC4-BTN5-W ENGRAVED (white) web pages. Refer to the PDF version of the MPC4-302 spec sheet for a list of supplied labels.

4-Series Control Engine

4-Series control systems come equipped with an upgraded multicore CPU, delivering a sizable speed and performance increase compared to all Crestron 3-Series® control processors. The improved performance allows 4-Series control systems to handle the increasing demands of an advanced automated system. Crestron 4-Series delivers a dynamic and secure control system platform capable of managing a room full of disparate technologies. Reliable networking and IP control afford seamless integration with other systems and devices, with add-on control capability using Crestron touch screens, wireless remotes, and mobile device apps, as well as remote management through Crestron Fusion® software and the XiO Cloud® service.

No Programming Required

Built-in .AV Framework™ software technology delivers a fully functional AV presentation system with simplified web-based configuration and a choice of control options and add-ons. For complete details on the capabilities supported by .AV Framework, visit www.crestron.com/avframework.

XiO Cloud Provisioning and Management

4-Series control systems leverage the power and flexibility of XiO Cloud services, enabling users to remotely provision, monitor, and manage Crestron devices across an enterprise network. XiO Cloud can be used to configure and load programs to the control system before it is received, making the control system fully functional as soon as it is connected to the network. XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit www.crestron.com/xiocloud.

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Enterprise-Grade Security

The MPC4-302 is an enterprise-class control processor that can be deployed across hundreds of spaces and set up easily using a web browser, Crestron Toolbox™ software, Crestron Fusion, or XiO Cloud. It employs standard network security protocols, including 802.1X network access control, Active Directory® software authentication, SSH, TLS, and HTTPS, to ensure reliability and compliance with your organization's IT policies.

SNMP V3 Support

Built-in SNMP V3 support enables integration with third-party IT management software, allowing network administrators to manage and control Crestron systems on the network in an IT-friendly format.

Power over Ethernet

Using PoE+ technology, the MPC4-302 gets its operating power directly through the LAN wiring. PoE+ (Power over Ethernet Plus) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches (CEN-SWPOE-10 or CEN-SWPOE-26) may also be used to provide a total networking solution with built-in PoE+. All PoE+ switches are sold separately.

Cresnet Network

Cresnet provides a simple four-wire network wiring solution for Crestron keypads, lighting controls, shade motors, thermostats, occupancy sensors, and other devices that don't require the higher speed of Ethernet. The MPC4-302 includes a Cresnet server port capable of supporting approximately 20 Cresnet devices. Systems with more than 20 devices can be handled by adding a Cresnet hub (DIN-HUB or CNXHUB) or Ethernet to Cresnet bridge (DIN-CENCN-2-POE).

> **NOTE**: The MPC4-302 supplies a maximum of 2.5 W to power Cresnet devices. For applications requiring more than 2.5 W, an external Cresnet power supply must be added.

Onboard Control Ports

In addition to Ethernet, the MPC4-302 includes a variety of control ports for interfacing with third-party equipment. Its bidirectional COM port and IR port (one of each) allow for control of a video display, document camera, and other devices. Two programmable relay ports are provided for controlling a projection screen, lift, or other low-voltage contact-closure actuated equipment. Two Versiport I/O ports enable the integration of various types of sensors or anything else that provides a dry contact closure, low-voltage logic, or provides 0–10 VDC signal.

Flush Mount Installation

The MPC4-302 is designed to be flush-mounted in a wall using a 3-gang U.S. electrical box (not included), and made to easily replace an existing MPC3 Series Media Presentation Controller. It can also be installed in a lectern or podium with no back box. Once installed, the button labels can be changed at any time by simply removing the front cover. A security screw is included to prevent unauthorized removal.

Tabletop Option

Using the optional tabletop kit (TTK-MP/MPC/IPAC-B-T or TTK-MP/MPC/IPAC-W), the MPC4-302 becomes a stylish, freestanding controller that fits perfectly on a table, desk, or countertop. All tabletop options are sold separately.

Specifications

Control Engine

Crestron 4-Series® control processor; real-time, preemptive multithreaded/multitasking kernel; Transaction-Safe Extended FAT file system; battery-backed nonvolatile real-time clock; supports up to 10 simultaneously-running programs, native .AV Framework™ software program

Communications

Ethernet	1000 Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet/IP2, IPv4 or IPv6, Active Directory authentication, SMTP email client, HTTPS web server, HTTPS web browser setup and XiO Cloud® client, I802.3at Type 2 PoE+ compliant
Cresnet® Network	Cresnet server mode
RS-232	For 2-way device control and monitoring, supports RS-232 up to 115.2k baud with hardware and software handshaking
IR/Serial	Supports 1-way device control via infrared up to 1.2 MHz or serial TTL/RS-232 (0–5 V) up to 115.2k baud

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Connectors

NET	(1) 4-pin 3.5 mm detachable terminal block; Cresnet server port
LAN PoE	(1) 8-pin RJ-45 connector, female; 1000BASE-TX Ethernet port; PoE+ (Power over Ethernet Plus) PD (Powered Device) port
RELAY	(1) 4-pin detachable terminal block; Comprises (2) normally open, isolated relays; Rated 1A, 30VAC/VDC; MOV arc suppression across contacts
IR	(1) 2-pin 3.5 mm detachable terminal block; IR/Serial output port; IR output up to 1.2 MHz; 1-way serial TTL/RS-232 (0–5V) up to 115.2k baud; (IRP2 emitter sold separately)
COM	(1) 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Up to 115.2k baud; hardware and software handshaking support
I/O	(1) 3-pin 3.5 mm detachable terminal block; Comprises (2) Versiport digital input/output or analog input ports (referenced to GND); Digital Input: Rated for 0–24VDC, input impedance 20k Ω, logic threshold >3.125V low/0 and <1.875V high/1; Digital Output: 250 mA sink from maximum 24VDC, catch diodes for use with real world loads; Analog Input: Rated for 0–10VDC, protected to 24VDC maximum, input impedance 21k Ω with pull-up resistor disabled; Programmable 5V, 2k Ω pull-up resistor per pin
Ground	(1) 6-32 screw; Chassis ground lug (flying lead with ring terminal included)

Controls and Indicators

Assignable Buttons	(10) Push buttons, customizable via labels (25 predesignated labels and five blank included); Custom laser-etched labels available in black (MPB4/MPC4-BTN5-B ENGRAVED) or white(MPB4/MPC4-BTN5-W ENGRAVED), both sold separately
Mute	(1) Projected capacitive push button with mute icon
-/+	(2) Projected capacitive push buttons labeled with - (minus) and + (plus) icons for volume control
Volume	(1) Knob (continuous turn rotary encoder) for volume control
Volume Gauge	(1) Blue LED multisegment circular graph surrounding the volume knob for volume level indication
Power	(1) Projected capacitive push button labeled with power icon
HW-R	(1) Push button (behind front panel) for hardware reset (reboots the processor)
SW-R	(1) Push button (behind front panel) for software reset (restarts the software program)
LAN PoE	(2) LEDs (on rear panel LAN port), green LED indicates Ethernet link status, amber LED indicates Ethernet activity
Illumination	Each front panel button is individually backlit—white when inactive and blue when active; autobrightness control adjusts all backlighting in three levels according to the ambient light level; backlighting may be dimmed or extinguished when unit enters idle state

> **NOTE:** All front panel buttons and the volume knob are custom programmable.

Memory

SDRAM	2 GB

Light Sensor

Photosensor detects the ambient light level to enable autobrightness control

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Power

Power over Ethernet	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 15 W from an 802.3at Type 2 PSE with LLDP advanced power management; Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP
Available Cresnet Power	2.5 W (104mA @ 24VDC)
Power Consumption	8.5 W typical

Environmental

Temperature	41 to 95°F (5 to 35°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	23 BTU/hr

Construction

Housing	Plastic with metal mounting plate, removable front panel with optional security screw
Flush Wall Mount	Mounts in a 3-gang U.S. plaster ring or electrical box, ≥2-1/2 in. (64 mm) depth recommended (not included)
Lectern Mount	Mounts in a 2-11/16 x 5-13/32 in. (69 x 138 mm) cutout using bracket provided
Tabletop Mount	Sits on, or mounts to, a tabletop using optional tabletop kit (TTK-MP/MPC/IPAC series, sold separately)

Dimensions

Height	4.50 in. (114 mm)
Width	6.70 in. (170 mm)
Depth	2.40 in. (60 mm)

Weight

19.2 oz (544 g)

Compliance

Regulatory Model: M202246003
UL® Standards Listed, CE, IC, FCC Part 15 Class B digital device; Class 1M laser product, complies with safety regulations of IEC- 60825-1, FDA 21 CFR 1040.11, and FDA 21 CRF 1040.10

To search for product certificates, refer to support.crestron.com/app/certificates.

Models

MPC4-302-B
4-Series® Media Presentation Controller 302, Black

MPC4-302-W
4-Series® Media Presentation Controller 302, White

Available Accessories

For a list of available accessories, visit the MPC4-302 product page.

Notes:

1. Modular Programming Architecture (MPA) on the AV4 requires the purchase of one SW-RMC3-10PROG license. The license enables support for running up to 10 simultaneous programs on a single AV4. The license is not required if only one program is run on the AV4. To obtain a license for the AV4, complete the Request for SW-RMC3-10PROG License form. For questions, contact license@crestron.com.
2. A BACnet and IP license is required. A free license is available to support up to 50 BACnet objects on a single 4-Series control system. Support for more than 50 BACnet objects requires the purchase of one SW-3SERIES-BACNET-50+ license. The AV4 supports a maximum of 500 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity. To obtain the license, visit www.crestron.com/bacnetlicense.

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The original language version of this document is U.S. English.
All other languages are a translation of the original document.

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Specifications are subject to change without notice.

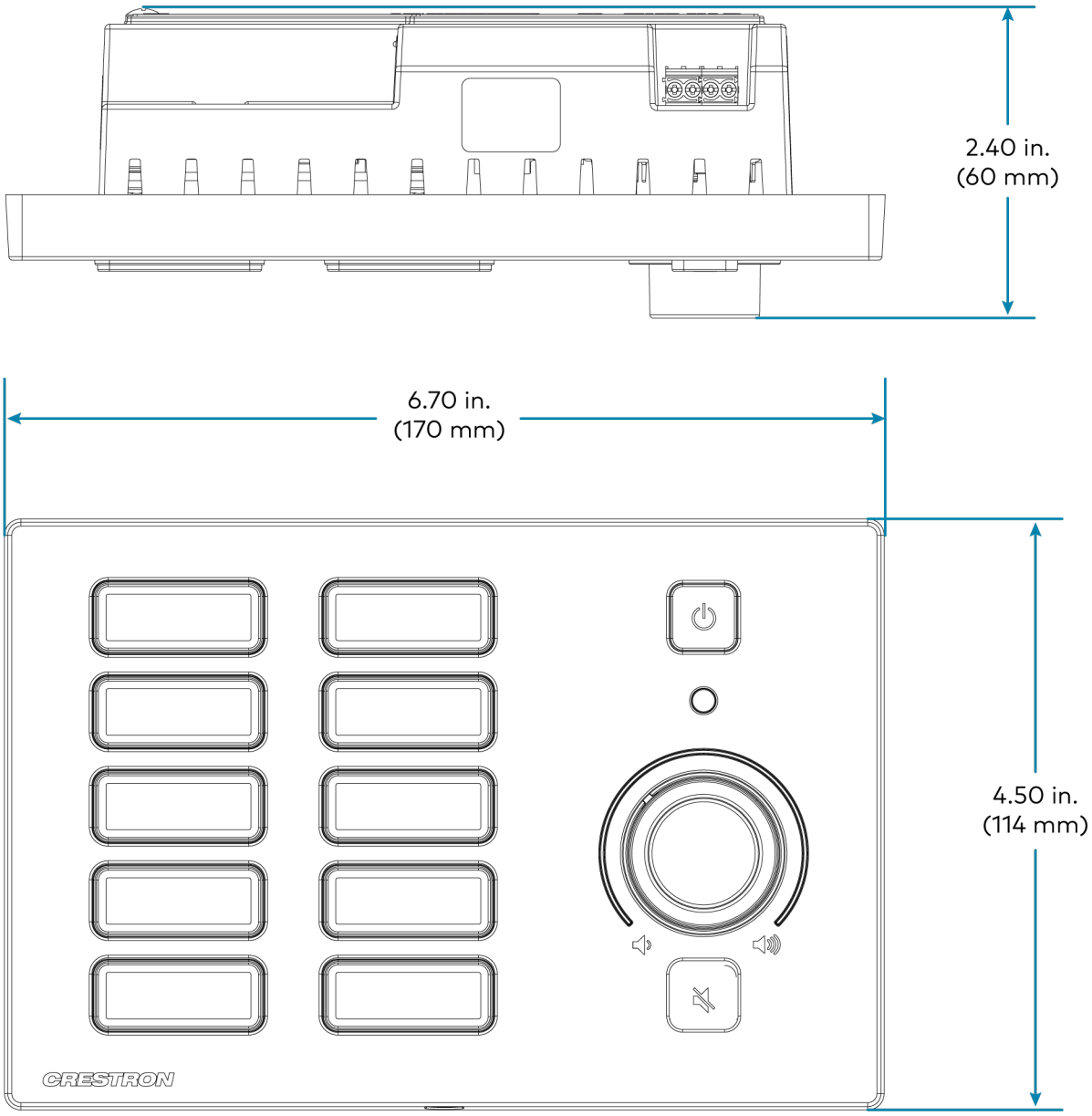
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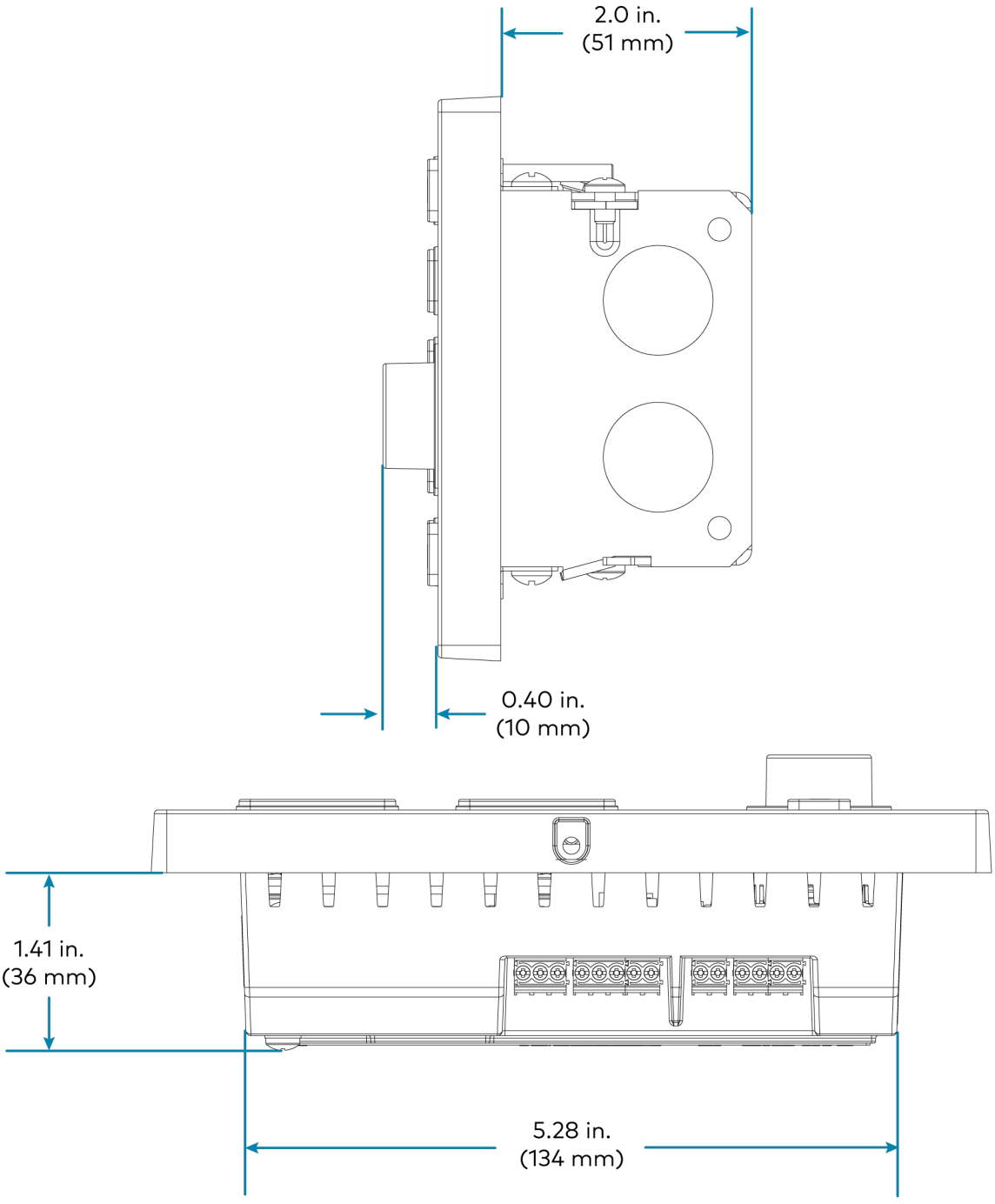
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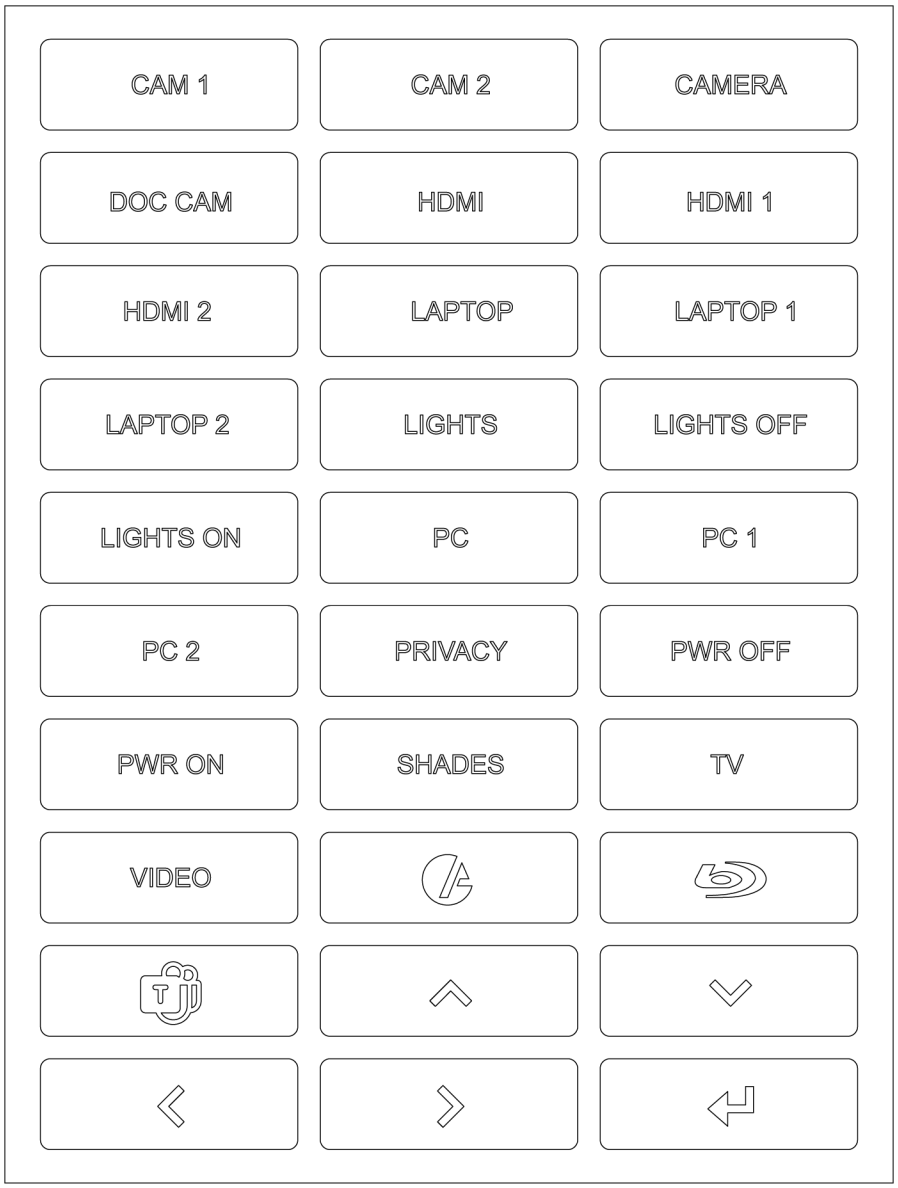


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Provided Icon Sheets (1 of 2)

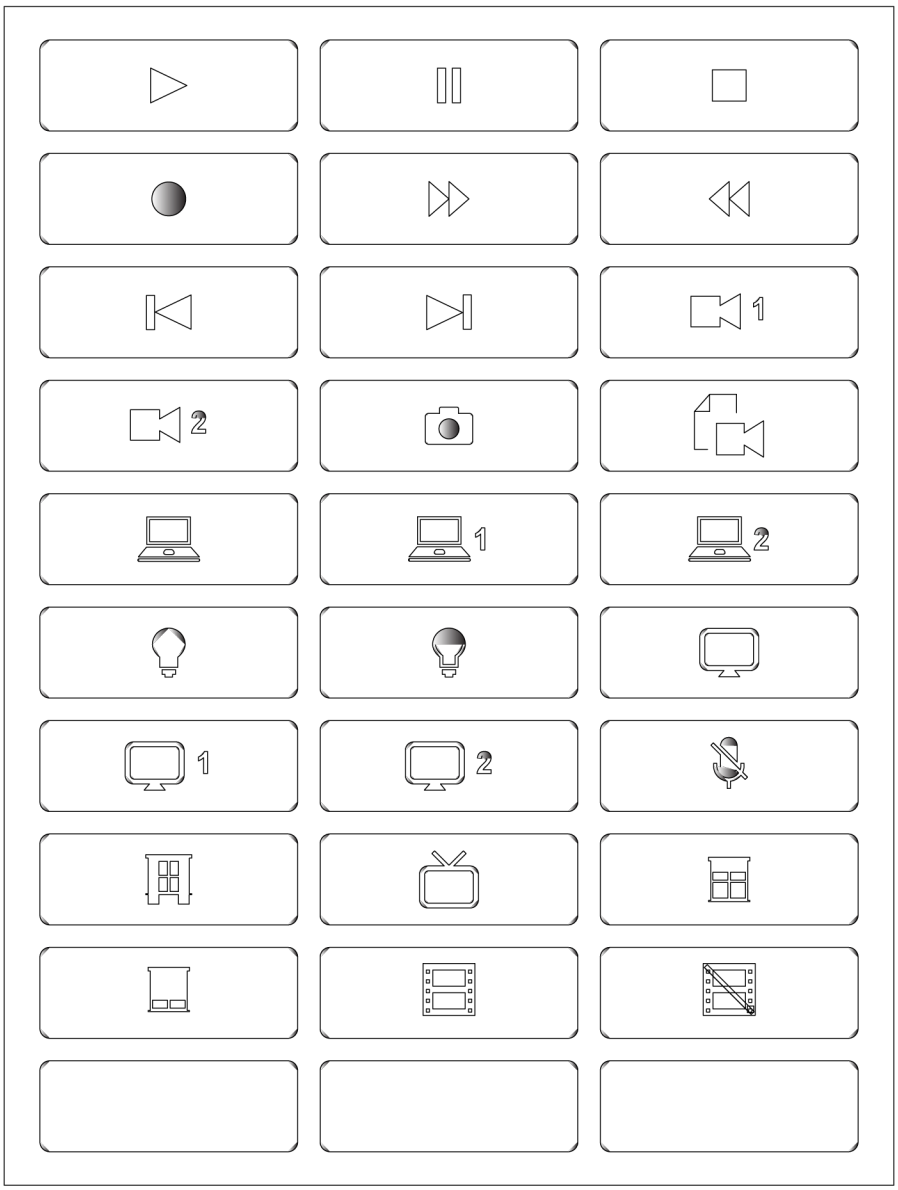


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