# Extron

# RCP 101 EU and RCP 101 MK • Setup Guide

## Overview

> **NOTE:** This product is for use only with Extron UL Listed Streaming Media Processor products.

The RCP 101 EU and RCP 101 MK are remote control panels with backlit transport controls for SMP series products. They carry out the same functions as the SMP front panel transport controls and the USB type A port supports USB flash drives and external USB portable drives.

The RCP 101 EU fits the opening in a 1-gang EU, Jung AS 500 wallplate, Extron Flex55 mounting system, or other European frame that accepts 55 mm x 55 mm modules. The RCP 101 MK fits  in a standard MK Wall Frame for United Kingdom junction boxes. The units ship with a metal bracket that enable them to be mounted in the appropriate junction box. The RCP 101 EU also ships with a metal spacer that can be used for **Mounting the RCP 101 EU in a cable raceway** (see page 5).

This guide provides basic instructions for an experienced installer to install either of these remote control panels and contains the following sections:

- **RCP 101 Front Panel Features**
- **RCP 101 Rear Panel Features**
- **Installation**
- **Configuration**
- **Making a Recording**
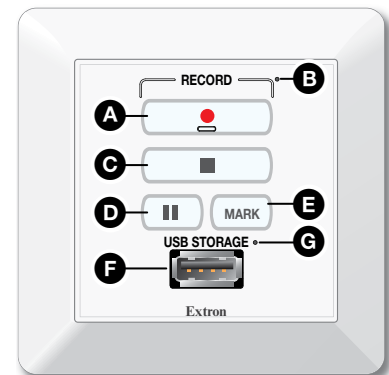
## RCP 101 Front Panel Features

The front panel features of the RCP 101 EU and RCP 101 MK are identical apart from the wallplate.

The recording controls have backlit buttons that indicate the current state of the recording operation. Inactive buttons are backlit dimly to help identify them in low ambient lighting.
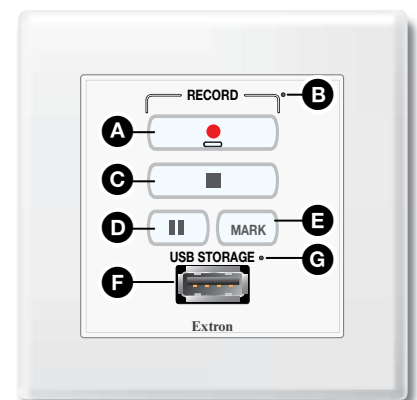
**A** **Record button** — Press this button to record one or more of the selected inputs. The button lights red and remains lit during active recording. The button has a nub that can be felt with the fingertips.

**B** **Activity LED** — This LED blinks green once when a button press is detected. It blinks red when a display or notify alarm on the attached SMP is triggered.

**C** **Stop button** — Press this button to stop the active recording. As the recorded file is finalized, the button blinks. Once the file is finalized, the button lights solidly.

**D** **Pause button** — Press this button to pause the active recording. While the recording is paused, this button blinks.

Press **Record** or **Pause** to resume recording. Press **Stop** to end the recording.

**E** **Mark button** — Press this button to place a chapter marking in the recorded file. When pressed during active recording, the button momentarily blinks.

The button also lights when JPG thumbnails are created. By default, thumbnails are created automatically and the interval between the creation of each thumbnail can be changed by the user on the SMP embedded webpage.

**F** **USB storage port** — Connect a USB compatible media storage device to this port. This storage device can be any standard external hard drive or USB flash drive formatted with a compatible file system.

> **NOTE:** SMP models can detect and record to USB storage devices that use FAT32, VFAT long file name extensions, EXT2, EXT3, EXT4 file system, or NTFS-formatted storage volumes.

**G** **USB Storage LED** — This LED indicates the status of the storage port:

- It lights green solidly when the recording destination is set to **RCP USB** or **Auto** and the attached storage device is ready for the next recording. The LED does not turn on if less than 10 minutes of recording space remain on the storage device.
- It blinks green during a recording to indicate data transfer activity.
- It turns off when no USB storage device is detected or the attached storage is disconnected.



**RCP 101 EU**



**RCP 101 MK**

**Figure 1.** **RCP 101 EU (top) and MK (bottom) Front Panels**

## Front Panel Lockout (Executive Mode)

When front panel lockout is on, all the buttons on the RCP 101 are disabled. To toggle between enabling or disabling front panel lockout, press and hold the **Pause** and **Mark** buttons simultaneously for three seconds.

As front panel lockout is enabled, all buttons and the red activity LED (**B**) blink three times. As front panel lockout is disabled, all the buttons and the green activity LED (**B**) blink three times. If a button is pressed while front panel lockout is enabled, all buttons blink three times.

## RCP 101 Rear Panel Features

The back panel features of the RCP 101 EU and RCP 101 MK are identical (see figure 2).

**A** **Power input** — The RCP 101 can be powered with the provided 12 VDC, 1.5 A power supply or by connecting it to the SMP unit.

- To power the unit with a power supply, connect the power supply to this input. Ensure that the polarity of the wires is correct (figure 3, **1**) and the wires are stripped correctly (**2**).

- To power the unit by connecting it to the SMP, use the provided cable to connect this input to the 2-pin power connector on the rear panel of the SMP.
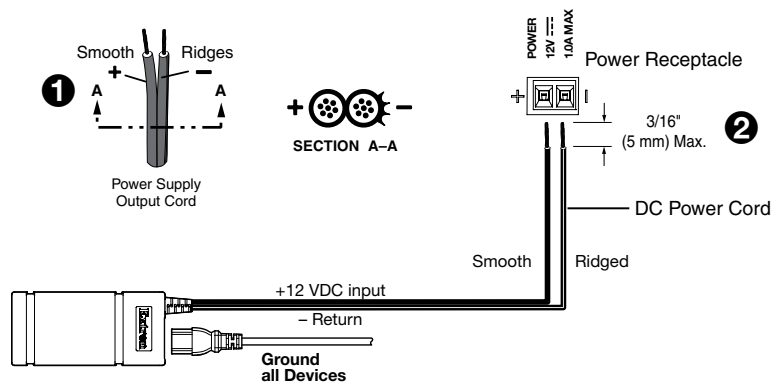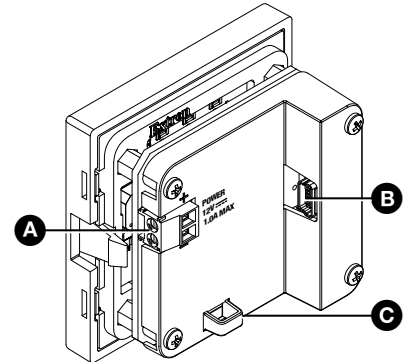


**Figure 2.** RCP 101 Rear Panel (Shown without Wallplate)



**Figure 3.** Connecting Power to the RCP 101

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**ATTENTION:**

- Always use a power supply supplied or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the unit.

- Utilisez toujours une source d'alimentation fournie par Extron. L'utilisation d'une source d'alimentation non autorisée annule toute conformité réglementaire et peut endommager la source d'alimentation ainsi que l'unité.

- If not provided with a power supply, this product is intended to be supplied by a UL Listed power source marked "Class 2" or "LPS" and rated output 12 VDC, minimum 1.0 A.

- Si ce produit ne dispose pas de sa propre source d'alimentation électrique, il doit être alimenté par une source d'alimentation certifiée UL de classe 2 ou LPS et paramétré à 12 VDC et 1,0 A minimum.

- Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities.

- Sauf mention contraire, les adaptateurs AC/DC ne sont pas appropriés pour une utilisation dans les espaces d'aération ou dans les cavités murales.

- The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 725 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to building structure or similar structure.

- Cette installation doit toujours être en accord avec les mesures qui s'applique au National Electrical Code ANSI/NFPA 70, article 725, et au Canadian Electrical Code, partie 1, section 16. La source d'alimentation ne devra pas être fixée de façon permanente à une structure de bâtiment ou à une structure similaire.

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**B** **USB connector** — Connect the RCP 101 to the SMP using the provided 15 foot (4.5 meter) USB mini B to USB type A cable. Insert the USB mini B connector into the USB port on the RCP 101 rear panel. Connect the other end of the cable to the control USB A port on the rear panel of the SMP. To increase the distance up to 300 feet (100 m), use an Extron Extender Plus Series twisted pair extender (see **www.extron.com**).

**C** **Cable anchor** — Use a zip tie to secure the USB cable to this anchor.

# Installation

> **ATTENTION:**
> - Installation and service must be performed by authorized personnel only.
> - L'installation et l'entretien doivent être effectués par le personnel autorisé uniquement.
> - If the RCP 101 will be installed into fine furniture, it is best to hire a licenced, bonded craftsperson to cut the access hole and perform the physical installation so the surface will not be damaged.
> - S'il est prévu d'installer le RCP 101 dans du beau mobilier, il est préférable de faire appel à un artisan autorisé et qualifié pour couper le trou d'accès et réaliser l'installation de telle façon que la surface ne soit pas endommagée.
> - Follow all national and local building and electrical codes that apply to the installation site.
> - Respectez tous les codes électriques et du bâtiment, nationaux et locaux, qui s'appliquent au site de l'installation.
> - All electrical installation should be performed by qualified personnel in accordance with local and national building codes, fire and safety codes, and local and national electrical codes.
> - Toute installation électrique devrait être effectuée par un personnel qualifié, conformément aux codes du bâtiment, aux codes incendie et sécurité, et aux codes électriques locaux et nationaux.

## Step 1: Prepare the Installation Site

### Americans with Disabilities Act (ADA) compliance

When planning where to install these devices, you may need to consider factors affecting accessibility of the button panel such as height from the floor, distance from obstructions, and how far a user must reach to press the buttons. For guidelines, see sections 307 ("Protruding Objects") and 308 ("Reach Ranges") of the *2010 ADA Standards for Accessible Design* available at **http://www.ada.gov/regs2010/2010ADAStandards/2010ADAStandards.pdf**.

### Site preparation

The RCP 101 EU fits the opening in a 1-gang EU, Jung AS 500 wallplate, Extron Flex55 mounting system, or other European frame that accepts 55 mm x 55 mm modules. The RCP 101 MK fits  in a standard MK wall frame for United Kingdom junction boxes. The units are shipped with a metal bracket and metal spacer that enable them to be mounted in the appropriate junction box. Extron offers optional UL Listed in-wall junction boxes, external wall boxes (EWBs), and surface or tabletop mounting boxes (see **www.extron.com**). To use these optional mounting accessories, follow the instructions provided with the mounting kit.

## Step 2: Cable All Devices

Run the power and USB cables to the required destination but do not connect them until you have mounted the unit.

> **ATTENTION:**
> - Do not connect a power supply before reading the Attention notifications in the "Power connector" section on **page 2**.
> - Ne branchez pas une source d'alimentation externe avant d'avoir lu les mises en garde dans la section « Power connector » sur **page 2**.

## Step 3: Mount the Remote Control Plate

These button plates can be installed directly into the wall using a standard 1-gang European junction box (RCP 101 EU) or MK wall frame for United Kingdom junction boxes (RCP 101 MK). The RCP 101 EU can also be mounted in a **cable raceway** (see next page).

> **NOTES:**
> - The electrical wall box is not provided and must be purchased separately.
> - Install the electrical wall box by following the instructions provided by the manufacturer.
> - Use the metal bracket provided with RCP 101 unit.

The RCP 101 EU (see figure 4) and RCP 101 MK (see figure 5) are mounted as follows:

1. Decide where the panel will be located. Take into consideration the position of wall studs and windows that could obstruct cable runs.
2. Install the electrical wall box (❶) by following the instructions provided by the manufacturer.
3. Attach the provided metal mounting bracket (❷) using the two provided screws.

> **NOTES:**
> - The metal brackets provided with the EU and MK models are different and are not interchangeable.
> - Ensure the bracket is in the correct orientation (with the side marked "Front" facing away from the wall).
> - The EU model is attached with screws at the top and bottom.
> - The MK model is attached with screws on both the sides.

4. Disconnect power from all devices at the source and run cables through the hole in the wall. Pass them through the metal mounting bracket and wallplate and connect them to the rear panel captive screw connectors (see **RCP 101 Rear Panel Features** on page 2).
5. Insert the RCP 101 into the wallplate (❸) and press the entire assembly into the metal mounting bracket (❷). The RCP 101 is secured to the metal bracket by two catches (one on each side) and holds the wallplate in place.

## Removing the RCP 101

To remove the RCP 101 EU or MK from the wall, follow these steps:

1. Disconnect the RCP 101 from the power source.
2. Use the Extron removal tool to release the catches on either side of the control plate (see figure 6, on the right).

   You may need to release both catches individually.

   When the control plate is released, the wallplate comes away at the same time.
3. Remove the power cable (**figure 2**, Ⓐ, on page 2) and the USB cable (Ⓑ). If necessary, cut the zip tie securing the USB cable to the cable anchor (Ⓒ).
4. If required, undo the two screws securing the metal mounting bracket to the wall box (figure 4, ❷, above).
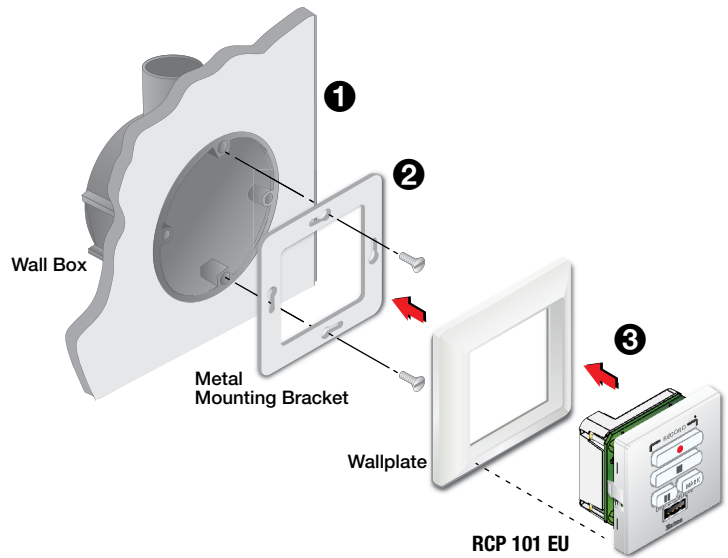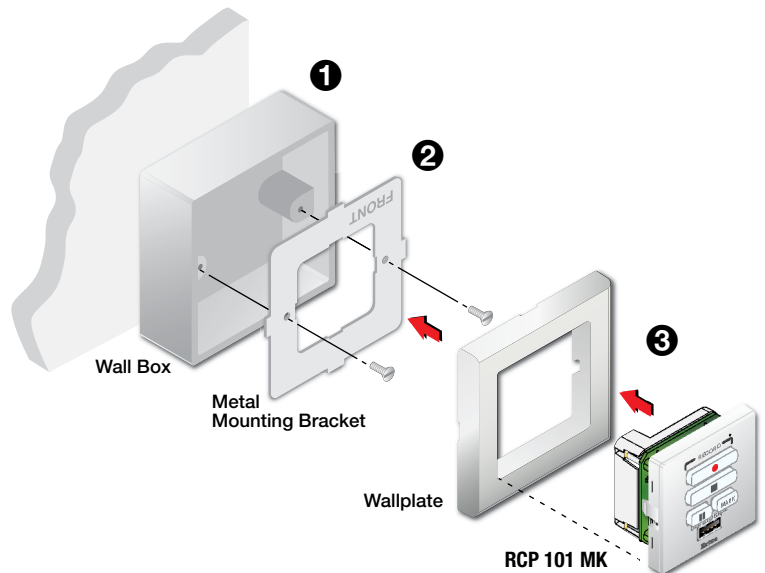


**Figure 4. Mounting the RCP 101 EU**



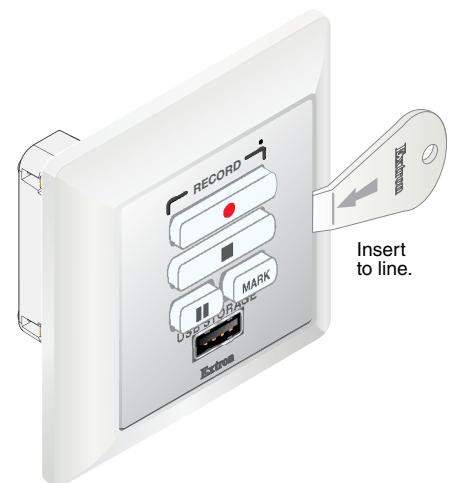**Figure 5. Mounting the RCP 101 MK**



Insert to line.

**Figure 6. Removing the RCP 101**

### Mounting the RCP 101 EU in a cable raceway

The RCP 101 EU can be mounted in a cable raceway. Extron provides a metal spacer that can be used if there is a gap between the metal mounting bracket and the wallplate.

The spacer looks very similar to the metal mounting bracket, but has a slightly larger center opening, has holes instead of slots for the mounting screws, and is engraved with the words "Optional Spacer" and "Place behind bracket." Do not use the spacer instead of the metal mounting bracket. The spacer has a larger opening and does not hold the RCP securely in the wallplate.

To mount the RCP 101 EU to a raceway using the spacer:

1.  Mount an electrical box in the raceway (figure 7, ❶). Follow the instructions provided by the manufacturer.
2.  If required, align the screw holes of the provided spacer with the holes in the electrical box (❷).
3.  Align the screw holes in the metal bracket with the holes in the spacer and electrical box (❸).

> **NOTE:** Ensure that the front surface of the mounting bracket is facing out (away from the wall).

4.  Secure the metal bracket and spacer to the junction box, using the two provided screws (❹). Leave the screw heads protruding approximately 1/8 inch (3.18 mm) from the surface of the spacer.
5.  Rotate the metal bracket as necessary to ensure that the RCP 101 EU is aligned correctly on the mounting surface.
6.  Tighten the screws to secure the bracket to the spacer.
7.  Disconnect power from all devices at the source and run cables through the raceway, junction box, spacer, metal mounting bracket and wallplate. Connect them to the rear panel (see **Step 2: Cable All Devices** on page 3).
8.  Insert the RCP 101 into the wallplate (❺) and press the entire assembly into the metal bracket (❻). The RCP 101 is secured to the metal bracket by two catches (one on each side) and holds the wallplate in place.
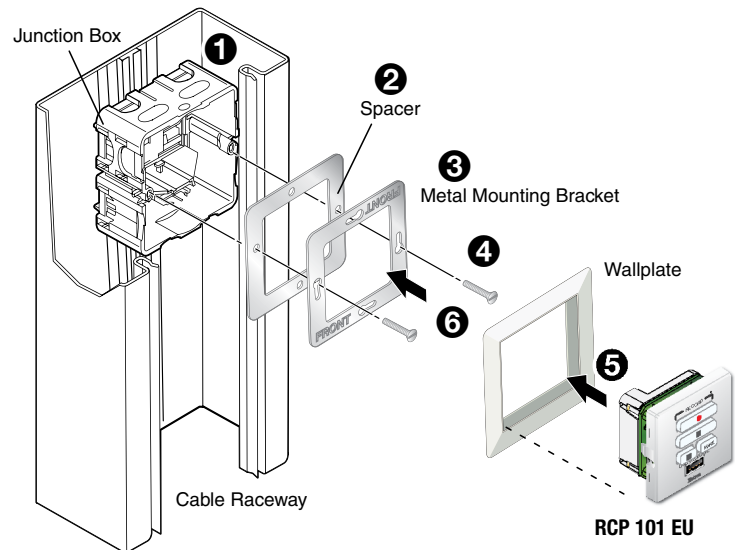
**Figure 7.  Mounting in a Cable Raceway**

## Configuration

### SMP Web Page

The RCP 101 can be configured from the SMP web page. Use a PC connected to the same subnet as the SMP.

1.  Open a Web browser and enter the IP address of the SMP (see the User Guide for your SMP model).

    You may need to log on as `admin`.

    The SMP web page opens.
2.  To confirm that the RCP 101 is connected to the SMP, click **Configuration** (figure 10, ❶, on the following page), **System Settings** (❷), and **Unit Identification** (❸).

    When the RCP 101 is not connected, or not detected by the SMP, the following information is displayed:

| Remote Panel Connected: | Not connected |
| Remote Panel Firmware: | Not connected |

**Figure 8.  RCP 101 Not Detected**

When the neither the RCP 101 EU nor RCP 101 MK is detected by the SMP, the following information is displayed:

| Remote Panel Connected: | RCP 101 Flex55, 60-1598-xx |
| Remote Panel Firmware: | 1.11 |

**Figure 9.  RCP 101 Detected**

3.  To save a recording to the USB device inserted into the RCP 101, click **Configuration** (❶), **System Settings** (❷), and **Recording Media Selection** (❹).

    From the **Recording Destination** drop-down menu, or the **Secondary Recording Destination** drop-down menu, as appropriate, select **RCP USB**.
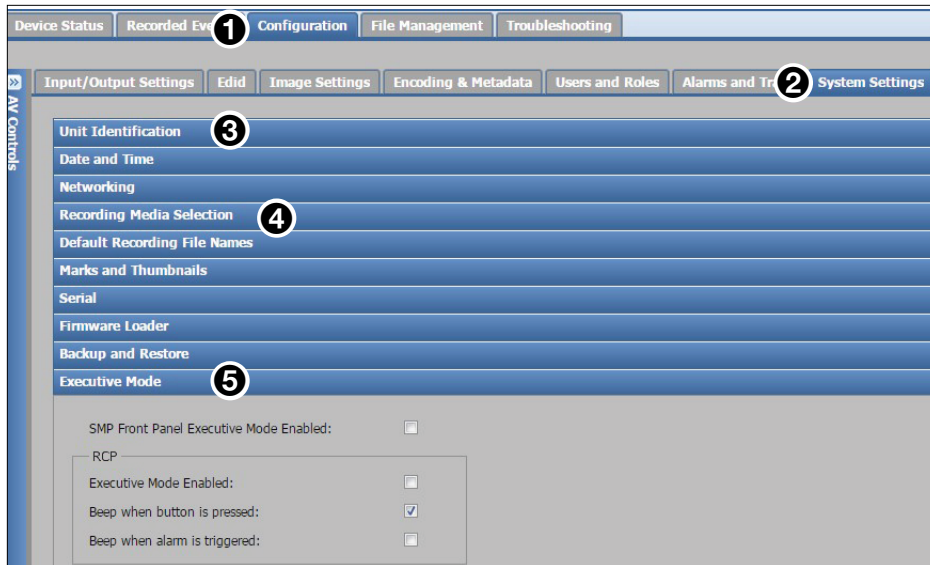


**Figure 10.** SMP Web Page

4.  To configure Front Panel Lockout, click **Configuration** (❶), **System Settings** (❷), and **Executive Mode** (❺).

    The options shown in **figure 9** (see previous page) are available only when the RCP 101 is detected. By default:

    - Front Panel Lockout (Executive Mode) is disabled (see **Front Panel Lockout (Executive Mode)** on page 2).
    - **Beep when button is pressed** is enabled.
    - **Beep when alarm is triggered** is disabled.

    Select or deselect the appropriate checkbox to enable or disable those options.

## Firmware

The firmware version installed on the RCP 101 must be compatible with the firmware installed on the SMP. To ensure this, the RCP 101 firmware is managed automatically by the SMP series products. The firmware version of the RCP 101 can be found on the SMP embedded web page under `Configuration` > `System Settings` > `Unit Identification`.

When the remote control panel is first connected to the SMP, the SMP checks the firmware version on the RCP 101 and, if necessary, automatically updates the panel firmware to a compatible version.

If you update the SMP firmware, the RCP 101 firmware is automatically updated at the same time. For more information about updating SMP firmware, see the SMP User Guide at **www.extron.com**.

## Making a Recording

Once the SMP and RCP 101 are installed, and configured, follow these instructions to make a recording using the RCP 101:

1.  Open the SMP web page to ensure the recording will be saved to the correct drive and that the USB drive, if required, is attached to the correct drive.
2.  Start the recording by pressing the **Record** button (**figure 1**, Ⓐ, on page 1).
3.  If required, add a chapter marking by pressing the **Mark** button (Ⓔ).
4.  If required, pause the recording by pressing the **Pause** button (Ⓓ).

    Restart the recording by pressing the **Pause** button a second time or by pressing the **Record** button.
5.  End the recording by pressing the **End** button (Ⓒ).

For more information, see the SMP User Guide at **www.extron.com**.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the **Extron Safety and Regulatory Compliance Guide** on the Extron website.