Infrared Remote Controls

IR 101 Universal Remote
IR 201 SYS 4/8/10/AV Remote

1. Power down the switcher.
2. Connect the IR 101 adapter’s 25-pin plug to the Remote connector on the switcher’s rear panel.
3. Plug the IR detector’s RJ-11 male connector into the IR 101 adapter’s rear panel RJ-11 female connector.
4. Position the IR detector for the best line of sight of the infrared light from the IR 101 hand-held remote controller.
5. Power up the switcher.

**IR 201** (Part #70-141-03) installation

Install the IR 201 Sys 4/8/10/AV remote control system (figure 3) as follows:

1. Power down the switcher.
2. Connect the IR 201 adapter’s 9-pin T-connector to the RS-232 connector on the switcher’s rear panel. If desired, connect a host device, such as a computer or touch panel control, to the switcher via this 9-pin D connector for serial RS-232 control.
3. Plug the IR detector’s RJ-11 male connector into the IR 201 adapter’s rear panel RJ-11 female connector.
4. Connect the external power supply to the IR 201 adapter. Plug a standard IEC power cord into the power supply to connect the adapter to a 100 to 250VAC, 50 Hz or 60 Hz power source.
5. Position the IR detector for the best line of sight of the infrared light from the IR 201 hand-held remote controller.
6. Power up the switcher.

Figure 3 — Typical IR 201 application

![Diagram of IR 201 system installation](image)
**Installation and Operation**

**About this User’s Guide**

This user’s guide covers the Extron IR 101 and IR 201 infrared (IR) remote control systems.

The IR 101 remote control system consists of:
- An IR 101 hand-held remote control
- An IR detector with a 6-foot cable and an RJ-11 connector
- An IR 101 remote control adapter with a 3-foot cable and a 25-pin connector

The IR 201 remote control system consists of:
- An IR 201 hand-held remote control
- An IR detector with a 6-foot cable and an RJ-11 connector
- An IR 201 remote control adapter with a 3-foot cable and an RS-232 T-connector
- A standard 9VDC power supply with a standard IEC connector
- A standard IEC power cord

**NOTE** The remote control can only operate a switcher that is configured as master, with no switchers slaved to it. Refer to the associated switcher manual to configure the switcher.

Aim the hand-held unit at the IR detector and operate the remote. The maximum operating distance between the hand-held remote and the IR detector is 30 feet. The hand-held remotes operate at a carrier frequency of 38 kHz.

The IR detector receives the IR signals from the remote, converts them to logic signals, and sends them to the adapter. The IR detector is equipped with a 6-foot RJ-11 cable for connection with the adapter. You can increase the distance from the detector to the adapter, up to a maximum of 50 feet, using a male-female, RJ-11 extension cable.

The IR 101 adapter connects to the switcher’s rear panel Remote connector and uses the switcher’s contact closure interface for input selection. The IR 201 adapter connects to the switcher’s rear panel RS-232 port and uses the switcher’s RS-232 interface for input selection. The IR 201 adapter’s T-connector allows the connection of a host system in addition to the adapter. Both adapters use logic signals to duplicate the switcher’s front panel input selection through the switcher’s contact closure (IR 101) or RS-232 (IR 201) interface.

The IR 101 adapter receives 5VDC on pin 13 of the Remote connector. The IR 201 adapter receives power from an auto-switching external power supply that provides worldwide power compatibility.

**Operation**

**NOTE** Pressing the Enter key is not required for these functions.

To select an input using the IR 101 or IR 201 hand-held remote control, aim the hand-held unit at the IR detector and press the numeric button for the desired input. The maximum operating range is 30 feet. For the System 10 switcher, press the 0 key to select input 10. Auto or AS A/V switchers ignore IR 201 remote commands when they are in auto-sync detect mode.

When connected to a System 4, a System 8 Plus, or a System 10 Plus switcher, the IR 201 lets the user control the switcher’s Display Power, Display Mute, RGB Mute, and Audio Mute functions. Pressing the keys for these functions on the remote toggles these functions on and off in the switcher.

**Battery installation**

Install two AAA batteries as shown (figure 1).

![Figure 1 — Battery installation](image)

**IR 101 (Part #70-141-01) installation**

Install the IR 101 remote control system (figure 2) as follows:

![Figure 2 — Typical IR 101 application](image)