



Scan for full manual

## FC-18 Quick Start Guide

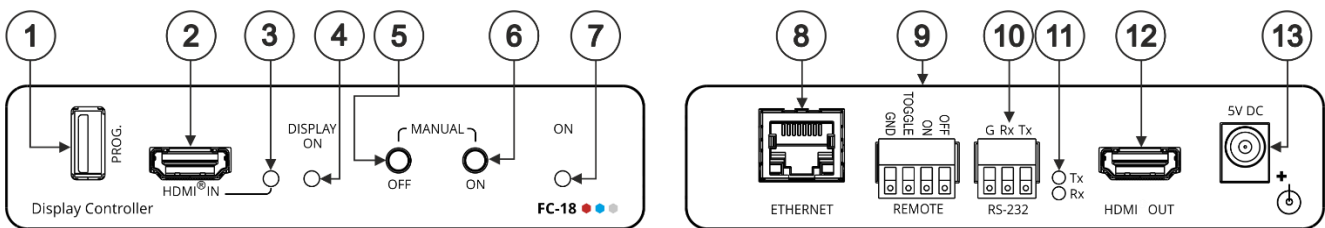
This guide helps you install and use your **FC-18** for the first time.

Go to [www.kramerav.com/downloads/FC-18](http://www.kramerav.com/downloads/FC-18) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

- FC-18** Display Controller
- 1 Bracket set
- 1 Quick start guide
- 1 Power adapter and cord

### Step 2: Get to know your FC-18



#	Feature	Function
1	PROG USB Connector	Connect to update the firmware.
2	HDMI® IN Connector	Connect to an HDMI source.
3	HDMI® IN LED	Lights green when a valid HDMI signal is detected. The detection is based on the presence of 5V and a clock signal on the HDMI input.
4	DISPLAY ON LED	Lights green when the HDMI acceptor on the output is on.
5	MANUAL OFF Button	Press to instruct <b>FC-18</b> to send a CEC or RS-232 OFF command to the display. The display remains off (and the DISPLAY ON LED is off) even if the input conditions dictate to turn the display on. Only after detecting no input signal for a period of over 5 minutes will the trigger-defined input conditions be able to turn the display on once again.
6	MANUAL ON Button	Press to instruct <b>FC-18</b> to send a CEC or RS-232 ON command to the display. The display remains on (and the DISPLAY ON LED is on) for an interval of a minimum of 5 minutes. After that time-period, the trigger-defined input conditions will dictate to shut the display down.



On / off behavior remains the same whether the display is set to ON/OFF manually or via serial communications.

7	ON LED	Lights green when power is connected.
8	Ethernet RJ-45 Port	Connect to a PC via a LAN to control the device or to tunnel RS-232 data to the display. Also use for firmware upgrade.
9	REMOTE 4-pin Terminal Block Connector	Connect to contact closure switches (by momentary contact between the desired pin and GND pin). TOGGLE – one button toggles between display ON and display OFF (instead of using two separate buttons for ON and OFF). ON – turns the display on. OFF – turns the display off.
10	RS-232 3-pin Terminal Block Connectors (G, Rx, Tx)	Set the function of the RS-232 port via the web pages: Connect to the display to send RS-232 commands to the display (default) via web pages, for example. OR, Connect to the PC or the remote controller to control <b>FC-18</b> (for example, instructing it to send a CEC command to send turn the display on or off).
11	Tx LED	Lights red when RS-232 port transmits data.
	Rx LED	Lights green when RS-232 Port receives data.
12	HDMI® OUT Connector	Connect to an CEC enabled HDMI acceptor.
13	5V DC Power Connector	Connect to the supplied power adapter.

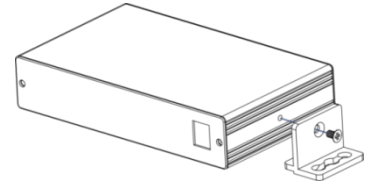
The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.



## Step 3: Install FC-18

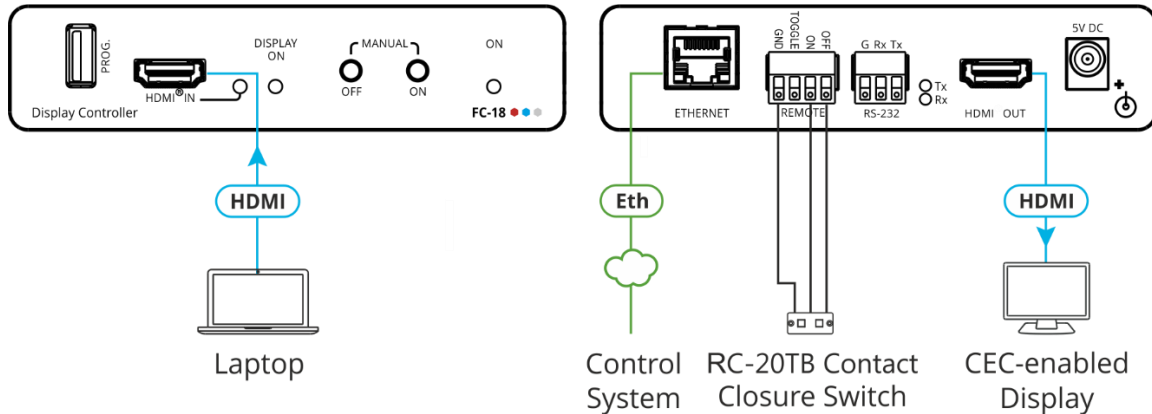
Install **FC-18** using one of the following methods:

- Place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface. For more information go to [www.kramerav.com/downloads/FC-18](http://www.kramerav.com/downloads/FC-18).
- Mount the unit in a rack using the recommended rack adapter (see [www.kramerav.com/product/FC-18](http://www.kramerav.com/product/FC-18)).



## Step 4: Connect the input and output

Always switch OFF the power on each device before connecting it to your **FC-18**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to **FC-18**.



## Step 5: Connect the power

Connect the 5V DC power adapter to **FC-18** and plug it into the mains electricity.

### Safety Instructions



**Caution:** There are no operator serviceable parts inside the unit.

**Warning:** Use only the Kramer Electronics power adapter that is provided with the unit.

**Warning:** Disconnect the power and unplug the unit from the wall before installing.

See [www.KramerAV.com](http://www.KramerAV.com) for updated safety information.

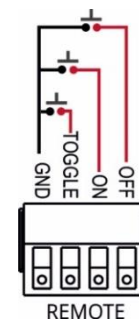
## Step 6: Control and Operate FC-18

### Contact Closure Remote Control

Turn the display ON or OFF (or TOGGLE between ON and OFF) via the contact closure remote control (also known as push-to-make momentary contact).

For example, to select ON, momentarily connect the ON pin to the GND pin.

Use the MANUAL front panel buttons and/or remote contact closure switch to turn the display ON or OFF.



Use the embedded web pages to:

- Set the RS-232 communication parameters and codes. These will typically be configured according to the RS-232 protocol of the display that the device controls when RS-232 is set as an “output” port, or configured according to the controller’s codes when RS-232 is set as an “input” port.
- Select of the trigger mechanisms (5V, clock and sync signals in the HDMI input) which fire the RS-232 commands.
- Set the delay times before the RS-232 codes are sent.
- Set up the unit to send codes via Ethernet instead of RS-232 (for example to support applications where the projector control is via Ethernet, not RS-232).
- Configure tunneling parameters.
- Enable / disable any of the control mechanisms (for example, disabling the front-panel buttons, or the automatic control).