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## FC-7 Quick Start Guide

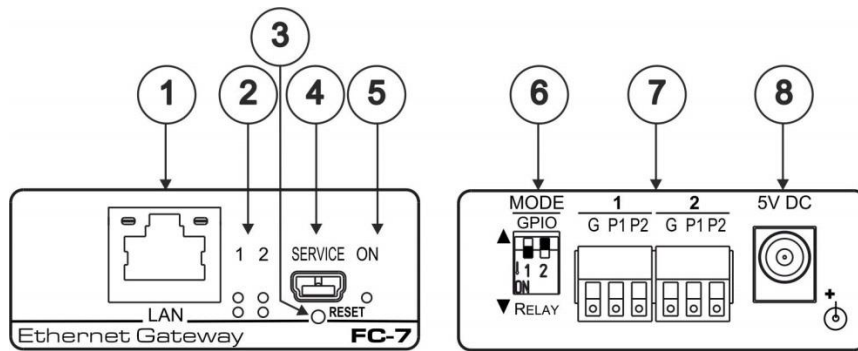
This guide helps you install and use your **FC-7** for the first time.

Go to [www.kramerav.com/downloads/FC-7](http://www.kramerav.com/downloads/FC-7) to download the latest user manual and check if firmware upgrades are available.

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

- ✓ **FC-7** Ethernet Gateway
- ✓ 4 Rubber feet
- ✓ 1 Bracket set
- ✓ 1 USB-A to USB mini cable
- ✓ 1 Quick start guide

### Step 2: Get to know your FC-7

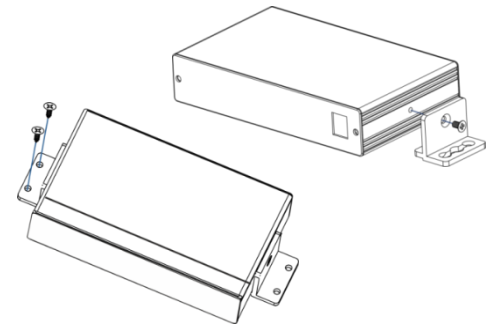


#	Feature	Function
1	LAN RJ-45 Connector	Connects to an IP client or other controller, either directly or via a LAN
2	Activity LEDs Ports 1 and 2, white (upper) and blue (lower)	Show the transmission status of port 1 and port 2: When set as GPIO, the white LED indicates active IO-P1 and blue LED indicates active IO-P2 When set as RELAY, the white LED indicates active Relay-P1 and blue LED indicates active Relay-P2
3	RESET Button	Press and hold while cycling the device power to reset to factory default parameters
4	SERVICE Mini USB Connector	Connects to a USB power source for powering and to a PC for a local firmware upgrade
5	ON LED	Lights green when the unit is powered on
6	MODE DIP-switches (Port 1 and Port 2)	Switch up (off) for GPIO, switch down (on) for relay The default setting is port 1 GPIO (up) and port 2 relay (down)
7	Port 1 and 2 I/O 3-pin Terminal Block	Each terminal block port connects to two GPIO ports or one relay
8	5V DC Connector	For extra power resiliency, connect to the optional 5V DC power supply, center pin positive. Not needed when the device is supplied power by a USB power source

### Step 3: Install the FC-7

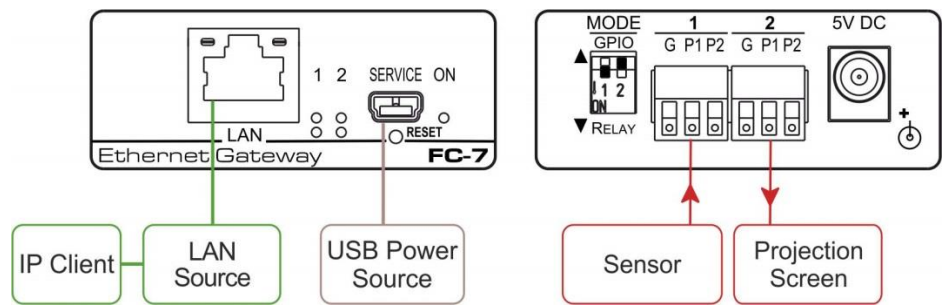
You can mount this Kramer PicoTOOL™ next to a USB power source behind an AV device, within the ceiling, on a desk top, wall or similar area. Fasten a bracket on each side of the TOOLS using the two M3x8 screws (supplied). Use the flat-head screws (supplied) to fix the TOOL to the mounting surface or enable it to slide in place.

Or you can attach the rubber feet and place on a table or mount the **FC-7** in a rack (using an optional **RK-3T** rack mount).



### Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **FC-7**. For best results, we recommend that you always use Kramer high-performance cables to connect controlled equipment to the **FC-7**.



### Step 5: Connect the power

Connect a USB power source and/or an optional 5V DC power supply to the **FC-7** and plug it into the mains electricity.

### Step 6: Configure and operate the FC-7

**Note:** The **FC-7** is shipped from the factory with DHCP enabled and a random IP address. To connect the **FC-7** on first installation, you must identify what IP address has been automatically assigned to the **FC-7**. To discover the IP address of **FC-7**, use **K-LAN Configurator**, available for download from our website at [www.kramerav.com](http://www.kramerav.com).

#### To reset the device to its factory default settings:

1. Turn off the power to the device.
2. Press and hold the Reset button on the front panel.
3. Turn on the power to the device while holding down the Reset button for a few seconds.
4. Release the button.  
The device is reset to the factory default settings.

#### To browse the FC-7 Web UI (User Interface) using factory default settings:

Use the default host name: **FC-7-xxxx**, where xxxx are the last four digits of the serial number of the device.

#### FC-7 Function Table

Port IO Function	Terminal Block Connections			IO Port Default	TCP Default Port [P1/P2]	Activity LEDs P1-white P2-blue	Comment
	G	P1	P2				
GPIO	Ground	IO <sub>1</sub>	IO <sub>2</sub>	Digital In x 2	5000	ON when IO ports are active	GPIO Analog in & Digital out via Web
Relay	Common	NO <sub>1</sub>	NO <sub>2</sub>	Normally Open x 2	5000	ON when Relay ports are active	

#### Key:

P1 / P2 – Port 1 / Port 2; IO<sub>1</sub> / IO<sub>2</sub> – GPIO Port 1 / GPIO Port 2; NO<sub>1</sub>/NO<sub>2</sub> – Normally open Port 1 / Normally open Port 2

#### To configure and operate the FC-7:

1. Using the device Web UI, configure the control gateway:
  - Set DHCP or assign a static IP address
  - Associate IP port(s) with the relevant port(s)
  - Configure the relevant port parameters
2. Configure IP client connection port(s) on a Kramer control or any other control software application.
3. Set the control application to use the control gateway ports for sending and receiving control communication over the IP connections.