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Caution: This product contains sensitive electrical components. Use surge protection to protect and extend equipment life.

1. Introduction

The KanexPro CR-TOUCH6R is a 6-inch widescreen capacitive touch panel with integrated programmable knob, running Android 11 for advanced AV room control. Powered by a quad-core ARM Cortex-A55 at 1.8GHz with 4GB DDR4 RAM and 32GB eMMC, it combines a 1440×720 customizable graphical interface with a physical knob for tactile volume and dimming control — bridging the gap between touch panels and button keypads.

The CR-TOUCH6R features both RS232 and RS485 serial ports, 100Mbps Ethernet with PoE, and optional Wi-Fi/Bluetooth, 4-array microphone, stereo speakers, light/distance sensor, and temperature/humidity sensor. It mounts in a standard 86 wall box and operates as a standalone central controller or host-connected user terminal. Programming is handled through EASYAccomplish software for Windows, Mac, and iOS.

2. Features

- ARM Cortex-A55 architecture, quad-core 1.8GHz
- Android 11 system, 4GB DDR4 RAM, 32GB eMMC Flash
- 6-inch 1440×720 (2:1) widescreen capacitive touch screen, standard 86 box wall-in design
- 1× programmable knob for tactile volume, dimming, or custom control
- TCP/IP, HTTP, UDP, and WebSocket network communication protocols
- 1× 100Mbps Ethernet port with PoE support
- 1× RS232 and 1× RS485 serial ports, configurable baud rate (2400–115200 bps)
- Optional Wi-Fi (2.4G+5G) / Bluetooth 5.4 wireless module
- Optional 4-array microphone input and stereo speaker output
- Optional light/distance sensor and temperature/humidity sensor
- Dual power supply: PoE or 24V DC
- Programmable via EASYAccomplish (Windows, Mac, iOS)
- Factory reset support

3. Package Contents

- 1× Programmable Touch Panel (Wall-in)
- 2× 3-pin 3.81mm Phoenix Connector (male)
- 1× 2-pin 3.81mm Phoenix Connector (male)
- 1× Wall Mounting Bracket (pre-installed on the touch panel)
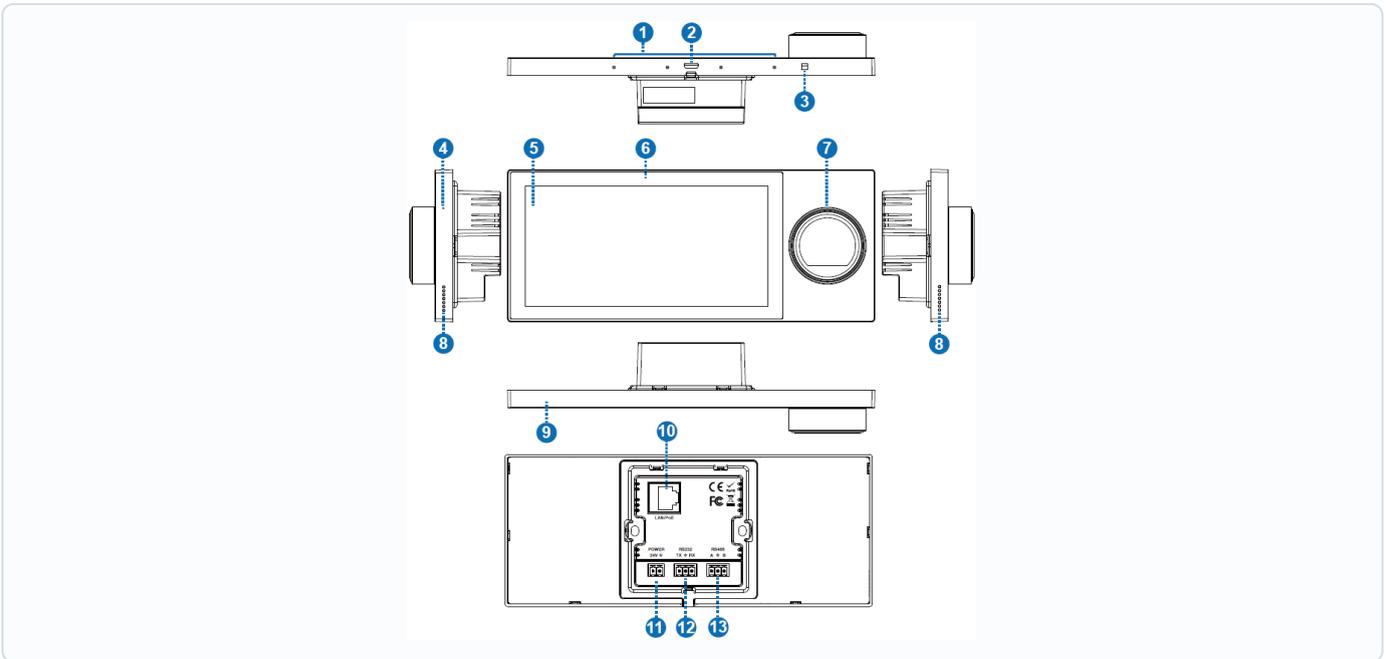- 2× Bracket Fixing Screws
- 1× User Manual

4. Specifications

SPECIFICATION	VALUE
Technical	
CPU	Quad-core ARM Cortex-A55, 1.8GHz
Operating System	Android 11
RAM	4GB DDR4
Flash Memory	32GB eMMC
Display Resolution	1440×720 (2:1 widescreen)
Touch Type	Capacitive touchscreen
Knob	1× programmable knob
ESD Protection	IEC 61000-4-2: ±8kV (air-gap) / ±4kV (contact)
Connection	
LAN/PoE	1× 10/100M Ethernet RJ45, PoE supported
Debug	1× Micro USB (debugging / data transmission)
RS232	1× 3-pin phoenix, bidirectional, 2400–115200 bps
RS485	1× 3-pin phoenix, bidirectional, 2400–115200 bps
Power	1× 2-pin phoenix, 24V DC input
Optional Modules	
Wi-Fi / Bluetooth	Wi-Fi (2.4G+5G) / Bluetooth 5.4
Microphone	4-array microphone input
Speakers	Dual stereo speaker output
Light / Distance Sensor	Auto brightness and proximity wake
Temp / Humidity Sensor	Environmental monitoring
Mechanical	
Dimensions	8.11″ × 3.39″ × 2.05″ (206 × 86 × 52mm)
Weight	0.71 lbs (321g)
Housing	Front panel / Rear case: Plastic
Color	Touch screen: Black; Front panel: Grey; Rear case: Black
Installation	Standard 86 box (UK/CN) wall mount
Power	
Power Supply	24V DC/1A or PoE
Power Consumption	10W
Environmental	
Operating Temperature	32°F–104°F (0°C–40°C)
Operating Humidity	20%–80% RH, non-condensing
Storage Temperature	-4°F–140°F (-20°C–60°C)
Storage Humidity	10%–90% RH, non-condensing

5. Operation Controls and Functions

#	NAME	DESCRIPTION
1	**Microphone**	4-array microphone ports (optional) for voice input.
2	**DEBUG Port**	Micro USB port for debugging or data transmission.
3	**Temp/Humidity**	Environmental temperature and humidity sensor (optional).
4	**RESET**	Press >1s <5s → reboot. Press >5s → factory reset (IP → 192.168.0.101, password → "admin"; projects retained).
5	**Touch Screen**	6-inch 1440×720 capacitive touchscreen. Interface customizable via EASYAccomplish (Windows, Mac, iOS).
6	**Light/Distance**	Auto-adjusts brightness or wakes screen based on proximity (optional).
7	**Knob**	Programmable knob configurable via EASYAccomplish for volume, dimming, or custom functions.
8	**Speakers**	Dual stereo speaker output (optional).
9	**Wi-Fi / BT**	Wi-Fi (2.4G+5G) / Bluetooth 5.4 (optional).
10	**LAN/PoE**	10/100M Ethernet RJ45 with PoE. Default: DHCP off, IP 192.168.0.101, subnet 255.255.0.0.
11	**POWER Port**	24V DC power input (2-pin phoenix).
12	**RS232 Port**	1× RS232 (3-pin phoenix). Baud: 2400–115200 bps. PIN1=TX, PIN2=GND, PIN3=RX.
13	**RS485 Port**	1× RS485 (3-pin phoenix). Baud: 2400–115200 bps. PIN1=A, PIN2=GND, PIN3=B.

6. Mounting Instruction

This wall-in touch panel mounts in a standard 86 wall box. The widescreen panel extends wider (206mm) but uses the same 86 box mounting points.

Step 1: Separate Rear Case

Use a flat screwdriver to separate the rear case from the front panel. Insert the screwdriver into the seam and lift from both sides to remove the rear case.

Step 2: Install Rear Case

Install the rear case (with pre-installed wall mounting bracket) onto the 86 wall box and fasten with the 2 bracket fixing screws.

Step 3: Connect Cables

Connect the LAN/PoE cable, and optionally the 24V power cable, RS232, and RS485 cables to the rear connectors before mounting the front panel.

Step 4: Mount Front Panel

Align the back of the touch panel with the slots of the wall bracket and push it in. Press the edge of the touch panel to ensure the buckles are in place. Installation is complete.

> **Removal:** Insert a screwdriver into the pry hole at the bottom and gently pry the front panel out of the rear case.

> **PoE Tip:** For PoE installations, only the LAN/PoE RJ45 cable is needed — no separate power cable required.

> **US Installation:** For US installations, a surface-mount 86 box adapter or retrofit plate would be needed since US standard gang boxes have different screw spacing.

> **Network Cable:** Use direct (straight-through T568B) CAT5e/CAT6 cabling. Do not cross connect.
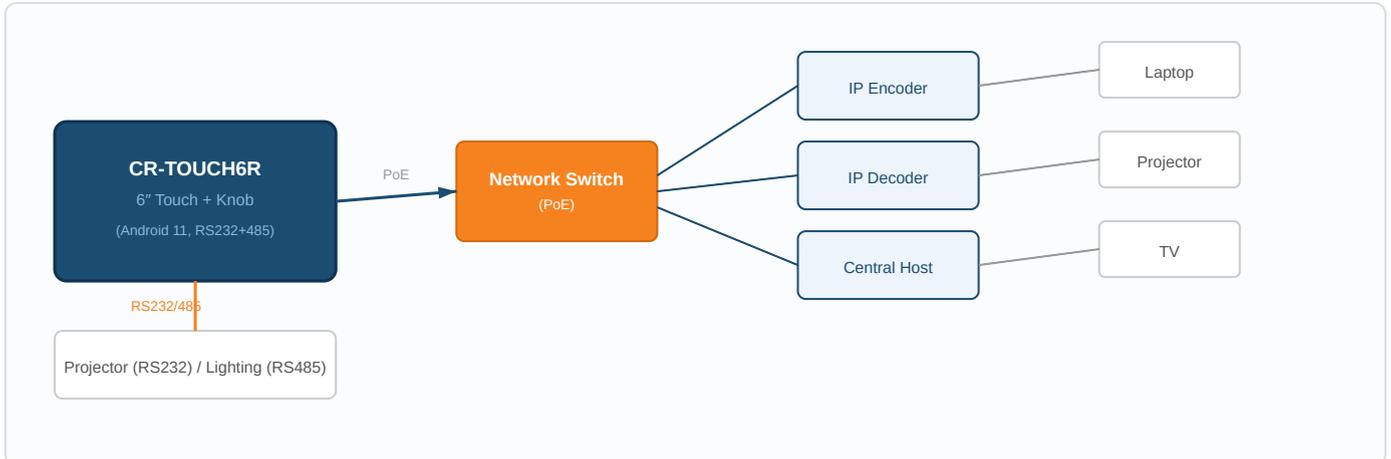
PRODUCT DIMENSIONS

Width	8.11″ (206mm)
Height	3.39″ (86mm)
Depth	2.05″ (52mm)
Weight	0.71 lbs (321g)

7. Application Example

The CR-TOUCH6R integrates with AV-over-IP systems, central control hosts, matrix switchers, and display devices via TCP/IP, RS232, and RS485:

The CR-TOUCH6R connects via PoE to the network switch. The touch UI sends TCP/IP commands to encoders/decoders and central control hosts. RS232 and RS485 handle direct serial control of projectors, lighting, and other legacy devices. The knob provides tactile volume or dimming adjustment. Optional Wi-Fi enables wireless programming and cloud connectivity.

8. Troubleshooting

Q: The touch panel does not power on.
A: Verify PoE switch provides adequate power, or check 24V DC connection. Ensure CAT cable is straight-through.

Q: Touch screen is unresponsive.
A: Press POWER button to wake screen. If unresponsive, press RESET >1s <5s to reboot. Clean screen surface.

Q: Cannot access web GUI at 192.168.0.101.
A: Ensure PC is on same subnet (192.168.0.x). Connect directly to LAN/PoE port. Disable Wi-Fi. Hold RESET >5s to restore defaults.

Q: The knob does not respond.
A: Verify knob function is programmed in EASYAccomplish. The knob only activates when configured.

Q: RS232/RS485 commands not reaching the device.
A: Verify baud rate match. RS232: PIN1=TX, PIN2=GND, PIN3=RX. RS485: PIN1=A, PIN2=GND, PIN3=B. Ensure TX→RX crossover.

Q: How do I reset to factory defaults?
A: Press and hold RESET >5 seconds. IP restores to 192.168.0.101, password resets to "admin." Projects retained.