



Beyond Factory Automation
Towards Digital Manufacturing

CIMON Xpanel

In English

- CM-eXT2-07-R-DE/DF
- CM-eXT2-10W-R(H)-DE/DF

USER MANUAL

Xpanel

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- For your safety and the safe operation of this product, please read this manual before using the product. The manual is subject to change without notice.
- Please review the product specifications in this manual to determine the suitability of this product for its intended use.
- For your safety only qualified persons should perform electrical and wiring attachments to this product.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

Essential Safety Precautions



Precautions for design

- Do not implement a trigger in the software for emergency stop of hazardous operation. If Xpanel is damaged while output signal remains ON or OFF, fatal accident may be caused. Design an emergency stop switch outside of the product so it can be manually stopped.
- Do not use Xpanel for the purpose of generating an alarm for injury to operators, breakdown of devices, or production halt.
- Design the system so that it can be hand-operated in case the product malfunctions.
- Do not use Xpanel as a control unit on applications requiring extreme stability such as airplane control device, aerospace device, centralized data processing device, nuclear control system, medical life support system, etc.
- In case Xpanel is used in transportations such as trains, vehicle, vessels, or warning devices for disasters and crime, various safety devices, and medical devices excluding life support system, you are required to design backup or failure provision system to secure reliability and stability.
- Even if the screen is black, the unit could still be turned on with a dead LCD backlight. When the operator touches a panel in this situation, the action could cause device's malfunction. Do not use this product for controlling safety devices such as emergency stop switches.

Precautions for installation

- Please do not disassemble or modify the Xpanel. It will void the warranty and may cause an electric shock.
- This version of the Xpanel is not rated for flammable environments. Do not use this Xpanel around flammable gases. It may cause an explosion.

Essential Safety Precautions



Precautions for wiring

- Make sure to check if the device's power supply is turned off before wiring. Failure to do so may cause electric shock or damage to the device.
- Do not use power beyond the specified voltage range of the PC. Doing so may cause fire, electric shock or damage to the device.

Maintenance

- The Xpanel uses a lithium battery to back up the internal clock. Do not replace this battery by yourself because it may cause an explosion. If the battery needs to be replaced, please contact your local service center.

Maintenance

- The LCD contains a powerful irritant and if for any reason the panel is damaged and this liquid contacts any part of your body, be sure to wash that area with running water for 15 minutes. If any of this liquid enters your eye, flush your eye for 15 minutes with running water and contact a physician.

Essential Safety Precautions

Cautions

Precautions for installation

- Be sure to securely connect all cable connectors to the Xpanel. A loose connection may cause incorrect input or output.
- Make sure to install the unit vertically.

Precautions for wiring

- Field Ground (FG) wires must be run individually from each unit to the master grounding terminal. DO NOT daisy chain the FG wires between devices.
- Correctly wire the Xpanel, be sure that the rated voltage and terminal layout are within the designated range. If the voltage supplied differs from the rated voltage, or incorrect wiring or grounding is performed, it may cause a fire or unit malfunction and it will void the warranty.
- Make sure to tighten the screw with standard torque (0.5~0.6Nm). Loose connections may cause short, fire or malfunction.
- Be careful that metal debris do not enter the Xpanel, they may cause a fire, Xpanel damage or malfunction.
- This product belongs to Overvoltage Category II.

Precautions for unit disposal

- When this unit is disposed of, it should be done so according to your country's regulation for similar types of industrial waste.

General Safety Cautions

- Do not strike the touch panel with a hard or pointed object, or press on the touch panel with too much force, since it may damage the touch panel or the display.
- Do not install the Xpanel where the operating temperature exceeds the allowed range. Doing so may cause the Xpanel to malfunction or shorten product lifespan.
- Do not restrict or limit naturally occurring rear-face ventilation of the Xpanel, or storing or using the Xpanel in an environment that is too hot.
- Do not use the Xpanel in areas where large, sudden temperature changes can occur. These changes can cause condensation to form inside the unit, possibly causing the unit to malfunction.
- Do not allow water, liquids, metal or charged particles to enter inside the Xpanel, since they can cause either a Xpanel malfunction or an electrical shock.
- Do not store or use the Xpanel in direct sunlight, or in excessively dusty or dirty environments.
- Do not store or use the Xpanel where strong jolting or excessive vibration can occur.
- Do not store or use the Xpanel where chemicals (such as organic solvents, etc.) and acids can evaporate, or where chemicals and acids are present in the air.
- Do not use paint thinner or organic solvents to clean the Xpanel.
- Do not store or operate the LCD display in areas receiving direct sunlight, since the sun's UV rays may cause the LCD display's quality to deteriorate.
- After turning the Xpanel OFF, be sure to wait a few seconds before turning it ON again. If the Xpanel started too soon, it may not start up correctly.
- Due to the possibility of unexpected accidents, you must back up the project data of the Xpanel regularly.

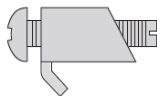
Package Contents

- The following items are contained in the package of the Xpanel. Before using the Xpanel, please confirm that all items listed here are present.

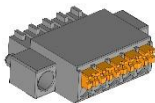
- Xpanel Unit - 1 EA



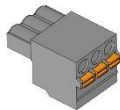
- Fastener - 4 EA (7"), 10 EA (10")



- 5-pin connector (RS-422/485) - 1 EA



- Power plug - 1 EA



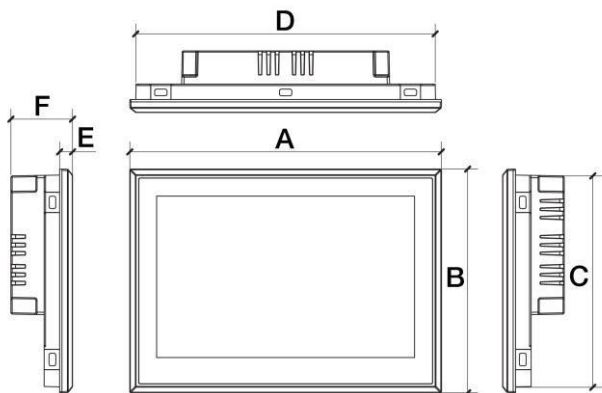
- Installation Guide - 1 EA



- ※ This unit has been carefully packed, with special attention to quality. However, should you find anything damaged or missing, please contact your local Xpanel distributor immediately.

Dimensions

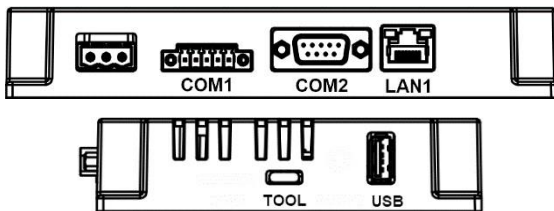
Unit: mm



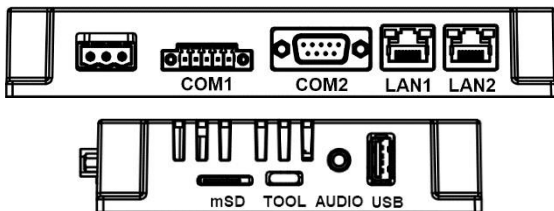
	CM-eXT2-07	CM-eXT2-10W	CM-eXT2-12W	CM-eXT2-15W
A	185	262.3	314.3	393.6
B	127	187.9	220.5	247.9
C	117.4	177.9	210.5	237.8
D	175.4	252.2	304.2	383.5
E	10.9	10.9	10.9	10.9
F	51.9	51.9	53.9	53.9

Interfaces

- eXT2-xx-xx-DE



- eXT2-xx-xx-DF




Name	Description
mSD	Micro SD Socket
TOOL	USB Device (USB 2.0 Type-C)
AUDIO	Audio Out (3.5mm Stereo)
USB	USB Host (USB 2.0 Type-A)

Interfaces

● COM1: RS-422/485

This interface is used to connect the Xpanel and target device via an RS-422/485 cable.

Connector	Pin No.	Name	Description
	1	RDB	Receive Data B
	2	RDA	Receive Data A
	3	GND	Ground
	4	SDB	Send Data B
	5	SDA	Send Data A

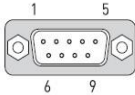


- In case of RS-485 cable (2wire) connection, connect only both SDA and SDB lines.
- The RS-485 of the Xpanel runs under auto toggle mode.
- To reduce the risk of damaging the RS-422 circuit, be sure to connect the Pin 3(GND).

Interfaces

● COM2: RS-232C

This interface is used for the connection between Xpanel and the target device via an RS-232C cable.

Connector	Pin No.	Name	Description
	1		
	2	RD	Receive Data
	3	TD	Transmit Data
	4		
	5	SG	Signal Ground
	6		
	7	RTS	Request To Send
	8	CTS	Clear To Send
	9		

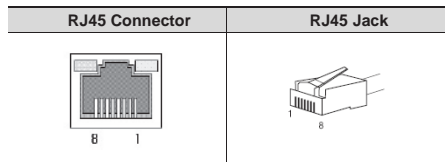


- Normal communication is not guaranteed when using USB connector as a communication port in ordinary times.
- In case of RS-485 cable (2wire) connection, connect only both SDA and SDB lines.
- The RS-485 of the Xpanel runs under auto toggle mode.
- To reduce the risk of damaging the RS-422 circuit, be sure to connect the Pin 5(SG) terminal.

Interfaces

- Ethernet

This interface complies with the IEEE802.3 for Ethernet (10/100/1000Base-T).



Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
TP0+	TP0-	TP1+	TP2+	TP2-	TP1-	TP3+	TP3-

Direct Cable: Host ↔ HUB

Cable	No	Color	Color	No	Cable
	1	Orange/W	Orange/W	1	
	2	Orange	Orange	2	
	3	Green/W	Green/W	3	
	4	Blue	Blue	4	
	5	Blue/W	Blue/W	5	
	6	Green	Green	6	
	7	Brown/W	Brown/W	7	
	8	Brown	Brown	8	

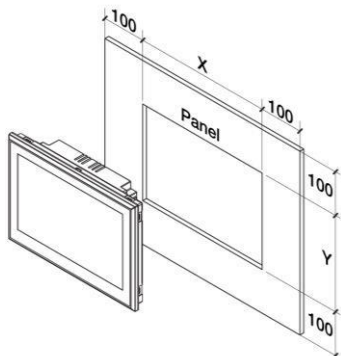
Crossover Cable: Host ↔ Host

Cable	No	Color	Color	No	Cable
	1	Orange/W	Green/W	1	
	2	Orange	Green	2	
	3	Green/W	Orange/W	3	
	4	Blue	Blue	4	
	5	Blue/W	Blue/W	5	
	6	Green	Orange	6	
	7	Brown/W	Brown/W	7	
	8	Brown	Brown	8	

Installation

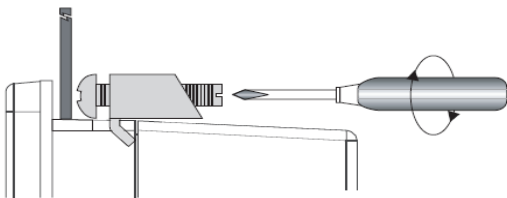
- Create a panel cut and insert the Xpanel into the panel from the front.

Unit: mm



	X	Y
CM-eXT2-07	177	119
CM-eXT2-10W	254	179
CM-eXT2-12W	305	212
CM-eXT2-15W	385	239

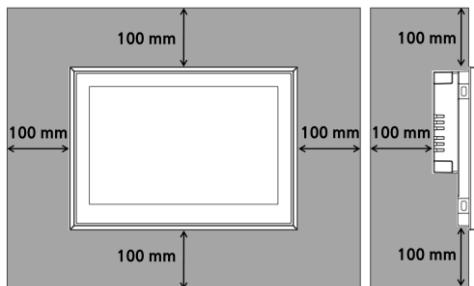
- Attach the Installation Fasteners from inside of the panel. Insert each hook of fasteners into the slot and tighten it with a screwdriver.



- Tightening the screws with too much force can damage the case of the Xpanel.
- The necessary torque is 0.5 kgf.cm.
- Depending on the thickness of installation panel, the number of installation fasteners used may need to be increased to provide the desired level of moisture resistance.

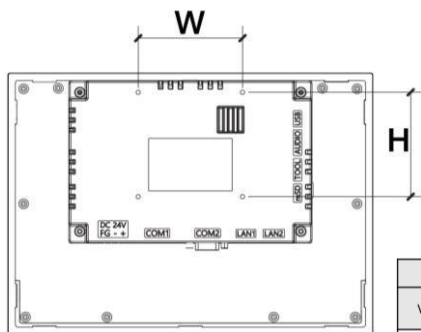
Installation

- For the performance and safe use of the equipment, please keep the distance between the back of the main unit and each all of the container at least 100 mm.



- VESA Mount Installation

(- 07 and -DE models do not support VESA mount).



Unit: mm

	H	W	Screw
VESA	75	75	M4 Max. 9

Wiring & Power Supply Caution

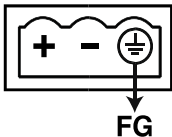
Warning

- Make sure to check if the device's power and external power supply is turned off before wiring, via a breaker, or similar unit. Failure to do so may cause electric shock or damage to the device.
- Check the rated voltage of the product.
- In case of terminal block connector type, make sure that power cord is connected properly.

Connecting the Xpanel Power Cord


- If the power supply voltage exceeds the GP's specified range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low noise power supply. If there is still an excessive amount of noise, connect a noise reducing transformer.
- The power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current), or input/output signal lines.
- Connect a surge absorber to handle power surges.
- To reduce noise, make the power cord as short as possible.
- When inputting power to the product, be sure to check the polarity (+, -) marked on the product before connecting. Incorrect polarity may cause product failure or fire.

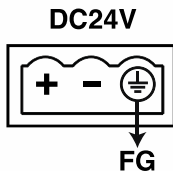
DC24V



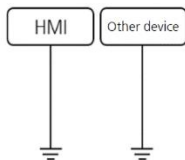
- To avoid a short caused by loose ring terminals, be sure to use ring terminals with an insulating sleeve.
- When the FG terminal is connected, be sure the wire is grounded. Not grounding the Xpanel unit will result in excess noise and vibration.
- The torque required to tighten these screws is 0.678_0.813 lbf*ft (0.5_0.6 N*m)
- Wire Range: AWG 14 - 26 SOL/STR, Wire Type: Cu

Grounding Caution

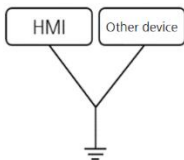
- Inside the Xpanel unit, the SG (Signal Ground) and FG (Frame Ground) terminals are connected to each other. (10")
- When grounding to the rear face FG terminal of the Xpanel, (on the Power Input Terminal Block), be sure to create an exclusive ground.
- When connecting an external device to the Xpanel with the SG terminal, ensure that no short-circuit loop is created when you setup the system.
- FG terminal is in the input power side. Connect the grounding cable to the 



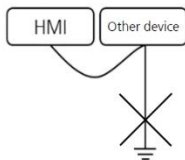
- Connect the FG terminal on the power supply to an exclusive ground. (Refer to the figure below)



① Exclusive grounding : Good



② Common grounding : Adequate



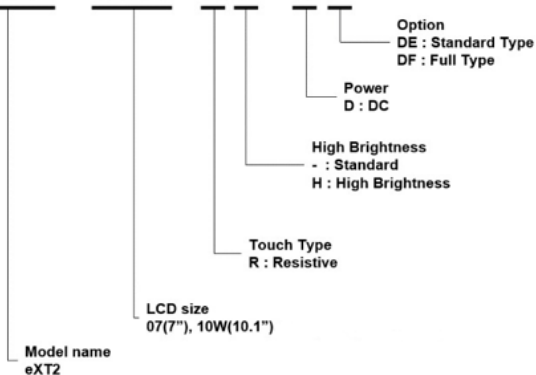
③ Common grounding : Prohibited



- If the grounding causes operational errors, please detach the FG terminal.

Specifications

CM - eXT2 - 10W - RH - DF



	Ethernet	Audio	MicroSD slot
- DE	1 port	X	X
- DF	2 port	O	O

Specifications

● eXT2-07

Model	CM-eXT2-07-R-DE	CM-eXT2-07-R-DF
Enclosure	Front: Plastic; Rear: Plastic	
LCD Size	7-inch Wide TFT Color	
Colors	16.7M	
Resolution	1024 x 600 WSVGA (128:75)	
Effective Display Area	154.21 (H) x 85.92 (V) mm	
PPI	170	
Backlight	LED	
Luminance	1,000 cd/m ²	
Contrast Ratio	1000:1	
Backlight Life	50,000 hours	
Touch Panel	4 Wire Resistive	
Touch Panel Accuracy	Active Area Length (X) $\pm 2\%$, Width (Y) $\pm 2\%$	
Display Orientation	Landscape (Standard, 180°), Portrait (90°, 270°)	
Memory	2GB LPDDR4	
Storage	8GB eMMC	
SD Card	-	1 microSD Card slot
COM1	RS-422/485	
COM2	RS-232C	
Ethernet	10/100/1000 1 port	10/100/1000 2 ports
USB Host	1 port	
Tool Port	1 USB device	
Audio	-	Line-out 1 port
Rated Voltage	24 VDC, Class2	
Inrush Current	30 A maximum	
Power Consumption	12W (MAX: 14W)	
OS	Embedded Linux	
Project Memory	250 MB	
User Memory	4 GB	
Weight	510 g	
Realtime Clock	Built-in	
Electronic Buzzer	Built-in	
Dimension(mm)	185 x 127 x 51.9	
Panel Cut(mm)	177 x 119	
Approvals	UL	UL61010-1 / UL61010-2-201 (E231117)
	CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
	FCC	The 47 CFR, Part2, Part15 and Part 18 Of FCC Requirement
	KC	Registration of Broadcasting and Communication Equipments
Protection Class	DE: IP66 / DF: IP68 (front) NEMA Type: 4x, 12 (front)	
Supported Protocols	Client Device (Ethernet): Allen-Bradley Ethernet/IP, ODVA Ethernet/IP, CIMON PLC (HMI Protocol), Fatek FBs, LSIS FNET (XGI/XGK), Mitsubishi MELSEC Ethernet, Modbus TCP Master, OPC UA Client, Omron FINS, Proface GPEthernet, Siemens S7	
	Client Device (Serial): CIMON PLC (HMI Protocol), LSIS Cnet (XGI/XGK), Mitsubishi MELSEC Serial, Modbus RTU Master, Omron HostLink, Panasonic FP7, Yokogawa FA M3, Allen Bradley DF-1, Hallim Loader	
	Server Device (Ethernet): MQTT JSON Publisher, Modbus TCP Server, OPC UA Server, Ethernet/IP Server	
	Server Device (Serial): Modbus RTU Server	

Specifications

• eXT2-10W

Model	CM-eXT2-10W-R-DE	CM-eXT2-10W-R-DF	CM-eXT2-10W-RH-DF
Enclosure	Front: Aluminum / Rear: Plastic	Front: Aluminum / Rear: Aluminum	
LCD Size	10.1-inch Wide TFT Color		
Colors	16.7M		
Resolution	1280 x 800 WXGA (16:10)		
Effective Display Area	216.96 (H) x 135.60 (V) mm		
PPI	149		
Backlight	LED		
Luminance	500 cd/m ²	1,200 cd/m ²	
Contrast Ratio	800:1		
Backlight Life	50,000 hours		
Touch Panel	5 Wire Resistive		
Touch Panel Accuracy	Active Area Length (X) $\pm 2\%$, Width (Y) $\pm 2\%$		
Display Orientation	Landscape (Standard, 180°), Portrait (90°, 270°)		
Memory	2GB LPDDR4		
Storage	8GB eMMC		
SD Card	-	1 microSD Card slot	
COM1	RS-422/485		
COM2	RS-232C		
Ethernet	10/100/1000 1 port	10/100/1000 2 ports	
USB Host	1 port		
Tool Port	1 USB device		
Audio	-	Line-out 1 port	
Rated Voltage	24 VDC, Class2		
Inrush Current	30 A maximum		
Power Consumption	15W (MAX: 16W)	20W (MAX: 21W)	
OS	Embedded Linux		
Project Memory	250 MB		
User Memory	4 GB		
Weight	1.4 kg	1.6 kg	
Realtime Clock	Built-in		
Electronic Buzzer	Built-in		
Dimension(mm)	262.3 x 187.9 x 51.9		
Panel Cut(mm)	254 x 179		
Approvals	UL	UL61010-1 / UL61010-2-201 (E231117)	
	CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)	
	FCC	The 47 CFR, Part2, Part15 and Part 18 Of FCC Requirement	
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	Server Device (Ethernet):	MQTT JSON Publisher, Modbus TCP Server, OPC UA Server, Ethernet/IP Server	
	Server Device (Serial):	Modbus RTU Server	

Specifications

Item	Description
Operating Temperature	DE : 0°C – 65°C / DF : -20°C - 70°C
Storage Temperature	-25°C – 75°C
Operating Humidity	10 – 90% RH (below 29°C, not condensed)
Storage Humidity	10 – 90% RH (below 39°C, not condensed)
Altitude (Air Pressure)	800 – 1114 hPa (2000 m / 6,500 ft or less)
Dust Exposure Allowance	$\leq 0.1\text{mg/m}^3$
Pollution Degree	≤ 2
Corrosion Immunity	No corrosive gas or dust
Vibration Protection	JIS B 3502, IEC/EN 61131-2 compliant 5–9 Hz Single amplitude: 3.5 mm 9–150 Hz Fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approx. 100 min)
Shock Protection	JIS B 3502, IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for ± 3 times (Total 18 times)
Noise Protection	Impulse, EFT/Burst, Surge, ± 0.5 kV
Electrostatic Discharge	Contact Discharge 4 kV (IEC 61000-4-2)
	Air Discharge 8 kV (IEC 61000-4-2)

Project Download

- **Check IP address of PC**

* **This step is not required for project download via USB cable.**

Go to [Window] – [Run] and enter 'cmd' on the input screen.

Enter 'ipconfig' on the command screen to check the PC's Ethernet setup.

```
C:\Users#\ >ipconfig
Windows IP Configuration

Ethernet adapter 이더넷:

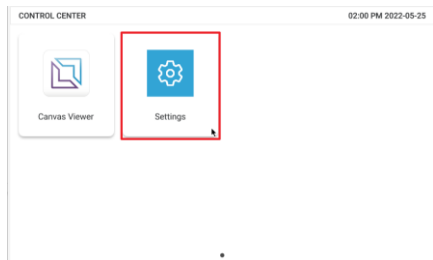
    Connection-specific DNS Suffix . : 
    Link-local IPv6 Address . . . . . : fe80::522:544d:7045:df08%2
    IPv4 Address. . . . . : 172.30.10.121
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 172.30.10.1
```

IP setting in Control Center

* **This step is not required for project download via USB cable.**

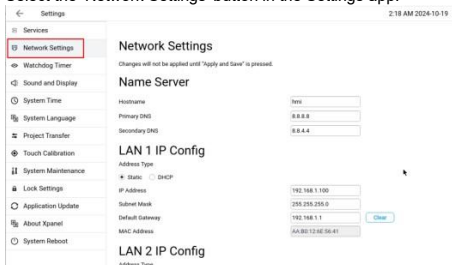
In the Control Center, you can change the IP setting of Xpanel.

Port 1 is assigned to the upper port, and Port 2 is assigned to the bottom port.



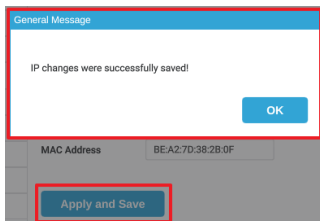
Project Download

Select the 'Network Settings' button in the Settings app.



Enter the IP address, Subnet mask, and gateway in each field.

Tap the 'Apply and Save' button to apply the network settings.



✘ Please note that all the ports must not be configured on the same subnet mask.

✘ NOTICE

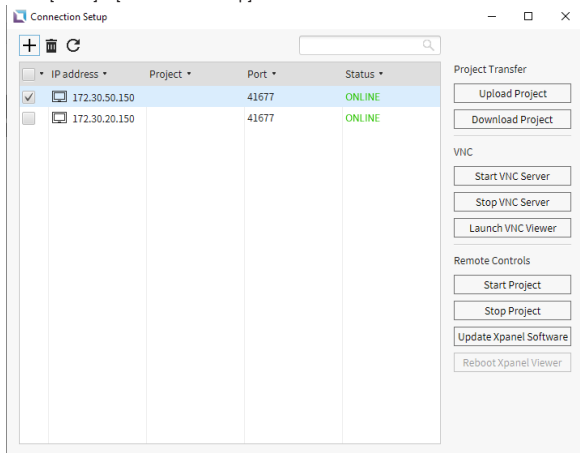
- 1) Subnet Mask, Gateway should match those of PC.
- 2) If the subnet mask is 255.255.0.0, for example in this image, the IP address should look like 192.168.xxx.xxx and should not be duplicated to any other devices.
- 3) xxx must be in range of 0-255.

Project Download

• Project Download

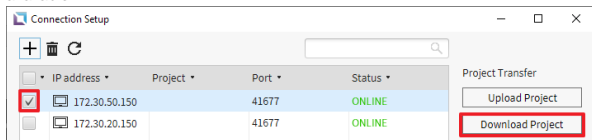
Run CIMON Canvas and open the project.

Go to [Tools] – [Connection Setup].



Select the target Xpanel from the list and press [Download Project].

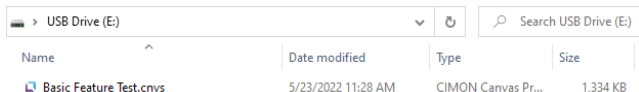
While using a USB cable for project download, only one device per connection is available.



Project Download

• Download project to the Removable Disk (Xpanel → USB)

Connect a removable disk to the PC and move the CIMON Canvas project file (.cnvs) to the removable disk.

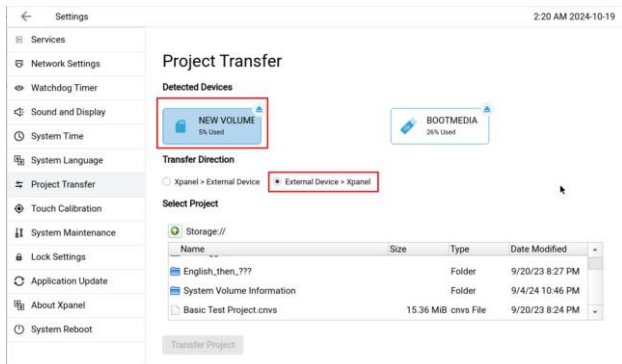


File Explorer window showing the contents of a USB Drive (E:). The search bar contains "Search USB Drive (E:)".

Name	Date modified	Type	Size
Basic Feature Test.cnvs	5/23/2022 11:28 AM	CIMON Canvas Pr...	1,334 KB

• Upload the project from a removable disk to Xpanel

Connect the removable disk to the Xpanel. Select [Settings] – [Project Transfer] in the Control Center. Select the device where the project is saved, then select [External Device -> Xpanel].



Project Download

Choose the project file from the file browser displayed below the [Select Project]. Then press [Transfer Project] to copy the project.

The screenshot shows the 'Project Transfer' settings page. On the left is a settings menu with 'Project Transfer' selected. The main area displays 'Detected Devices' with 'NEW VOLUME' (5% Used) and 'BOOTMEDIA' (26% Used). Under 'Transfer Direction', 'External Device > Xpanel' is selected. A 'Select Project' button is highlighted with a red box. Below it is a table of storage contents:

Name	Size	Type	Date Modified
English_then_???		Folder	9/20/23 8:27 PM
System Volume Information		Folder	9/4/24 10:46 PM
Basic Test Project.cnvs	15.36 MiB	cnvs File	9/20/23 8:24 PM

The 'Basic Test Project.cnvs' row is highlighted in blue. A 'Transfer Project' button is highlighted with a red box at the bottom of the screen.

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