



TEY21B
User Manual



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Introduction

TEY21B OPS provides a greater performance for the Interactive Display and Digital Signage applications. This embedded PC module is rich with I/O's including one type-C USB, two USB 3.1, one USB 3.0, one USB 2.0, one HDMI video port with up to 3840*2160 resolution, and support TPM2.0; Pre-load Win10 IoT Enterprise and BenQ Launcher provide friendly user experience.

Features

PC		
Model	TEY21B-1015M8S5	TEY21B-1017M8S5
CPU	i5 10210U, Intel® 10th Gen. Comet Lake-U SOC	i7 10510U, Intel® 10th Gen. Comet Lake-U SOC
Memory*	DDR4 8G x 1	DDR4 8G x 1
Storage*	256 GB	256 GB
Graphics	Intel® HD Graphics 6 Series	Intel® HD Graphics 6 Series
Resolution	Max. 3840 x 2160 @60Hz	Max. 3840 x 2160 @60Hz
Chipset	Integrated into CPU	Integrated into CPU
Network	Intel Gigabit Ethernet	Intel Gigabit Ethernet
Wi-Fi	Intel® AX200 802.11 a/b/g/n/ac/ax (2.4 GHz and 5 GHz)	Intel® AX200 802.11 a/b/g/n/ac/ax (2.4 GHz and 5 GHz)

Interfaces Frontside	
USB 3.1 Type-C*	x1
USB 3.1 Type-A	x2
USB 3.0 Type-A	x1
USB 2.0 Type-A	x1
HDMI 2.0 (4K@60Hz)	x1
RJ45 (10/100/1000M)	x1
3.5mm Line out	x1
3.5mm Mic in	x1

Interfaces Frontside	
WiFi/BT ANT	x2
Power button	x1
Reset button	x1
Power LED	x1
SSD LED	x1
DC-IN	x1

Operation System	
OS Support	Win10 IoT Enterprise 64 bit (Pre-load BenQ Launcher)

Power	
Power Supply Mode	DC input +12V~+19V

Physical Specifications	
Cover Material	Metal
Dimension L*W*H (mm)	119 x 180 x 30
Package Dimension (mm)	254 x 196 x 77
Net Weight	0.97 kg (1pcs)
Gross Weight	1.23 kg (1pcs)
Operation Temperature	5~45%
Operation Humidity	10%~95%
Storage Temperature	-20 - 70%
Storage Humidity	10%~95%



- Memory up to 16GB
- Storage support M.2 2280 SATA SSD
- USB 3.1 Type-C supports data transfer and 5V/1A peripheral devices only.

View Outlook

Outside View



View of I/O Front Panel



View of I/O Back Panel



No.	Name	Description
1	WiFi	WiFi antenna interface
2	LOCK	LOCK button
3	HDD LED	Hard Disk Drive indicator light
4	USB2.0	USB 2.0 connectors, backwards compatibility USB 1.1
5	POWER BUTTON	Press the power button to turn on the device.
6	MIC IN	This jack is used to connect an external microphone.
7	LINE OUT	This jack is used to connect to the front left and right channel speakers of the audio system.
8	POWER LED	Power indicator light
9	USB3.1 TYPE-C	Type-C connector
10	HDMI	High-definition multimedia display interface
11	USB3.1 Gen2 Type-A	USB 3.1 connector, backwards compatibility USB 3.0/2.0
12	LAN	RJ-45 Ethernet network connector
13	USB3.0	USB 3.0 connector, backwards compatibility USB 2.0/1.1
14	RESET	Reset button
15	JAE	80 pin Testing Interface
16	DC IN	DC Power interface

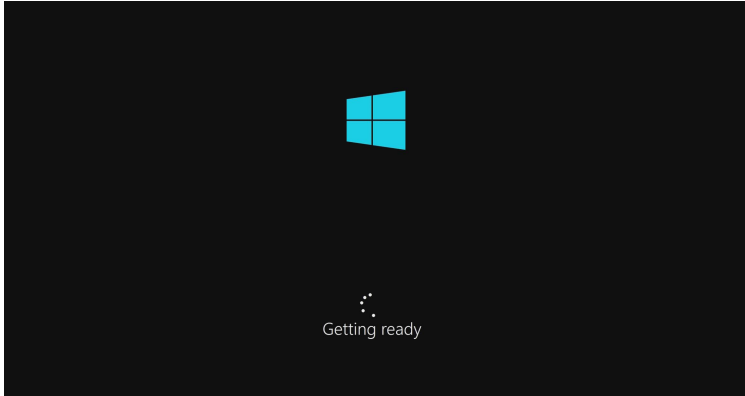


The product may differ from that illustrated depending on your region of purchase. The images are for reference only.

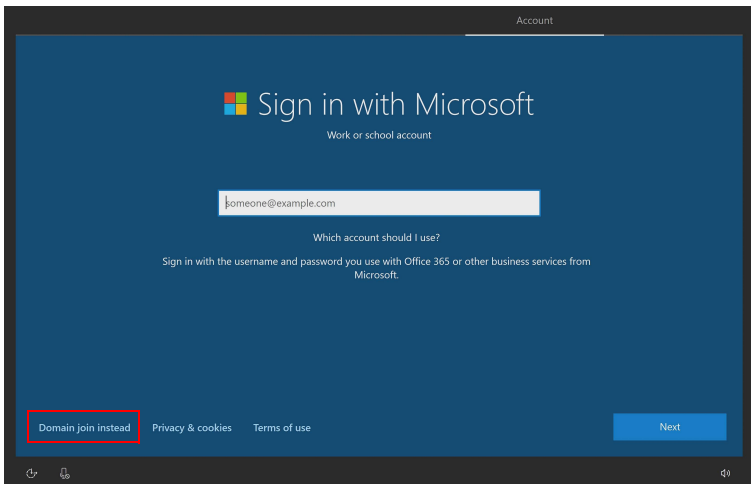
First installation

When using the TEY21B OPS module for the first time, you should follow the on-screen steps.

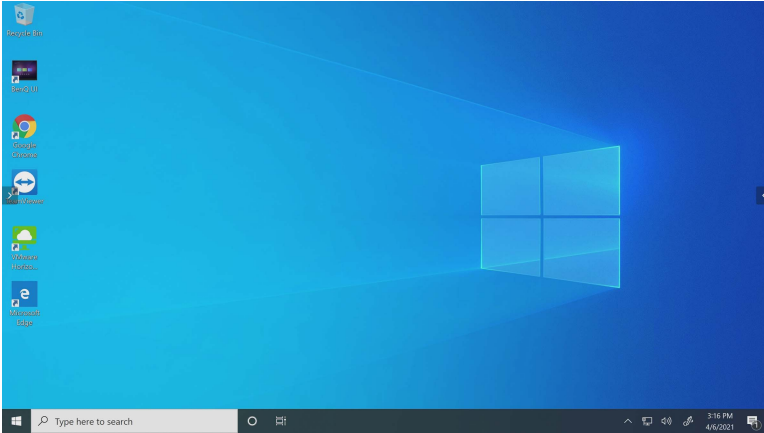
1. Wait for a few minutes when first starting the OPS module.



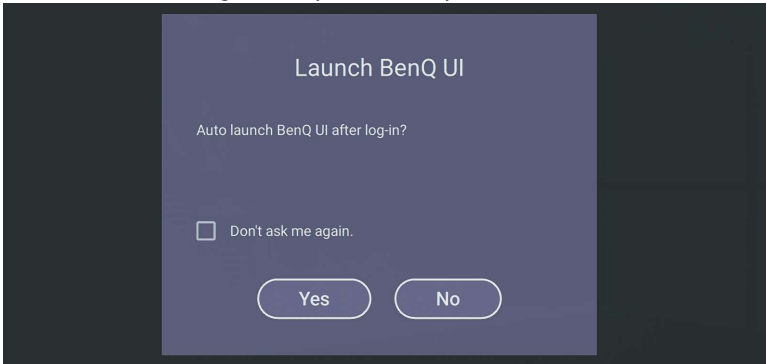
2. After the boot screen, please enter the region and keyboard layout.
3. After some setup, sign in with Microsoft. Choose **Domain join instead** if you do not have the account.



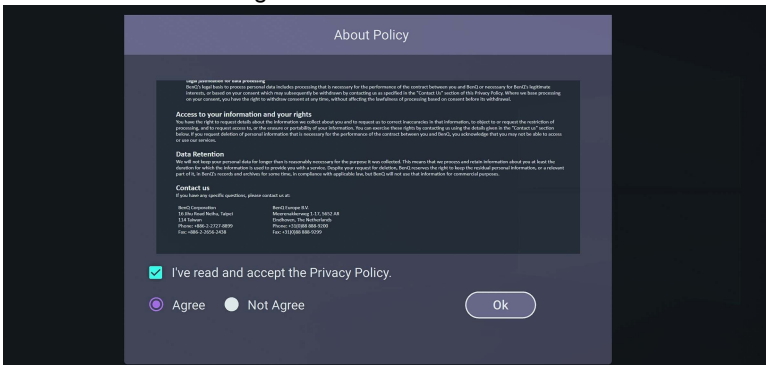
- Follow the on-screen steps to fill in the user name, password, security questions, and other necessary settings. After finishing all the settings, wait for several minutes. Then you will see the Windows desktop. Please wait for about one minute for the BenQ UI setting to show up.



- Check “Don’t ask me again” and press **Yes** to proceed.

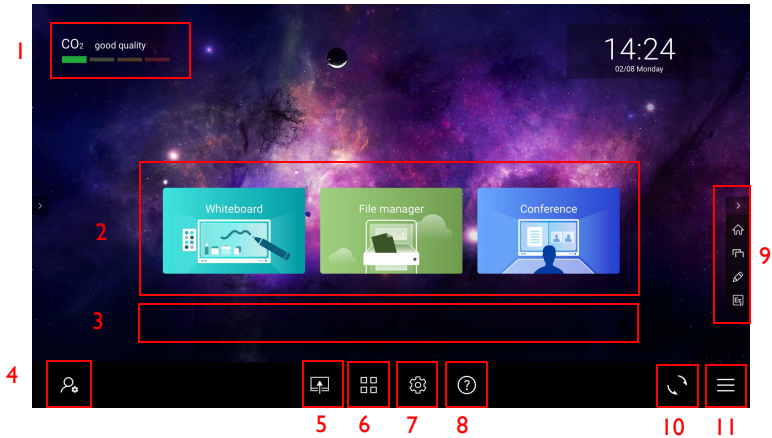


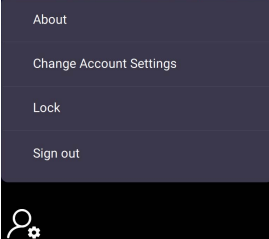
- Read the privacy policy, check “I’ve read and accept Privacy Policy”, press **Agree** and **OK** to finish the setting.



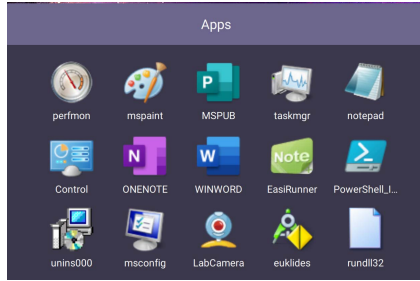
OPS interface

Optimizing Windows touch behavior, TEY21B is a friendly launcher for Windows users. It provides similar user experience with Android launcher and has Windows Multi-tasking functions and tools.

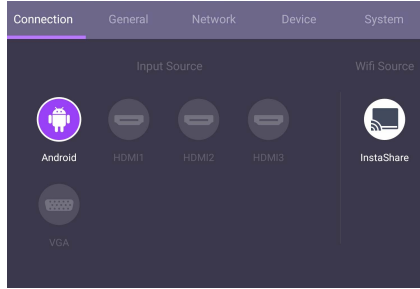


Item	Description
1. CO2 Sensor	Air quality sensor information. Read CO2 Sensor (for CP6501K / CP8601K only) on page 10 for more information.
2. Three main features	Three main features are Whiteboard , File manager , and Conference . Read Three main features on page 11 for more information.
3. Shortcut area	You can add your often-used Apps here.
4. Account	You can access the account information here.
	
5. Switch input source	Press to switch to the interactive display input source.

-
6. All Apps Collects all Windows software.



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7. Android setting Press to open BenQ Android setting of IFP/Signage.

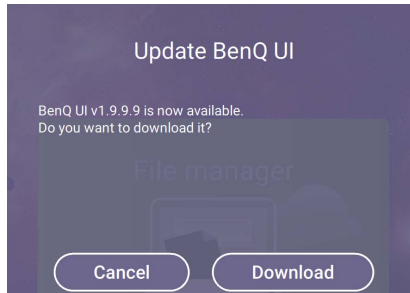


-
8. Help function Press to access the user manual.



-
9. Side Tool Bar Read [Side Tool Bar on page 13](#) for more information.

10. OTA Press to access the OTA information.



-
11. Quick Control Read [Windows Ink on page 15](#) for more information.

CO2 Sensor (for CP6501K / CP8601K only)

The concentration value of CO2 sensor may vary depending on the environment such as temperature, humidity, and placement (by windows or under air conditioning). This means that the CO2 sensor will always accurately measure the increments between ppm levels, but the baseline of the measurement may shift over time.

It is normal if the concentration value is slightly higher or lower than its original calibration.

The CO2 sensor has a self-correction mechanism to make the sensor more in line with the current installation environment, so that the value can be more accurate.

To start the calibration, please follow the directions.

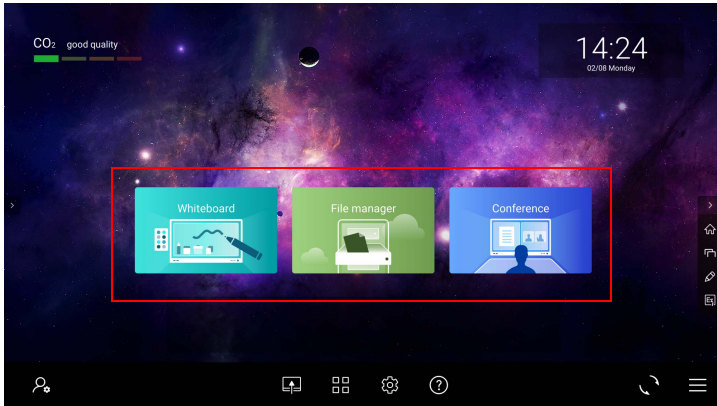
Auto calibration

To provide correction for the optimal CO2 concentration for the current environment, the calibration mechanism will collect the CO2 concentration value for 25 consecutive hours to meet the temperature and humidity of the current space.

During the automatic calibration, do not interrupt or turn off the power supply. Do not move the IFP and make sure that the device is in an environment with good ventilation, to ensure a better calibration result.

Three main features

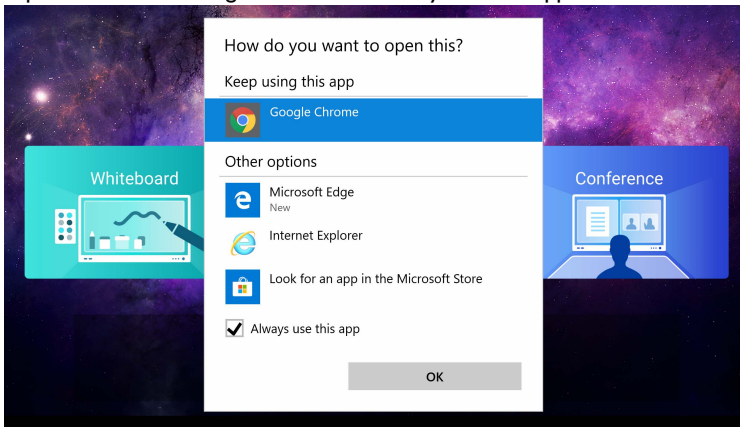
Whiteboard, **File manager**, and **Conference** are three main feature shortcuts.



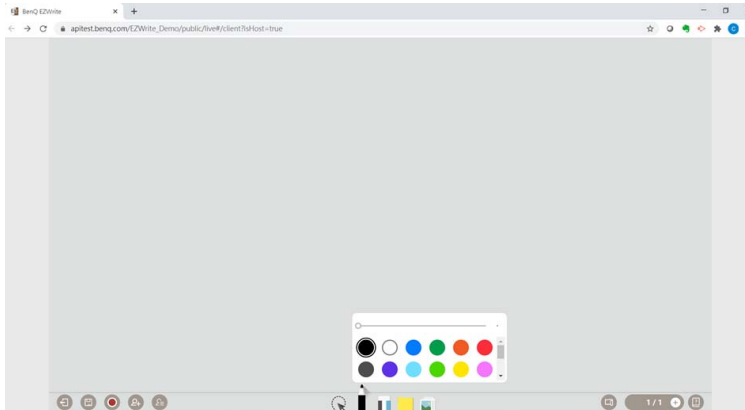
The corresponding Apps for three main feature shortcuts are:

- **Whiteboard**: EZWrite Live.

Press **Whiteboard**, and you will see a pop-up window asking you which browser you want to proceed. Select Google Chrome and always use the app.

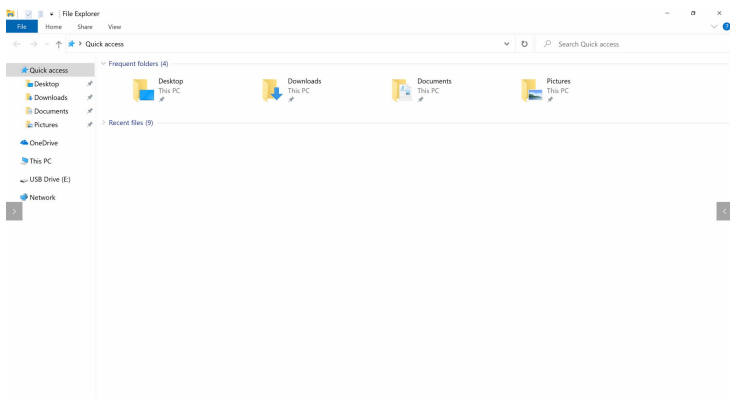


EZWrite Live makes distance discussion and collaboration easier.



- **File manager:** Windows file manager

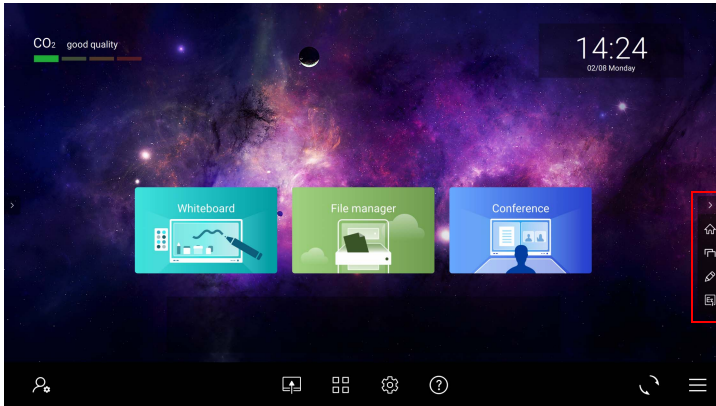
Windows file manager is a familiar file management method for users.


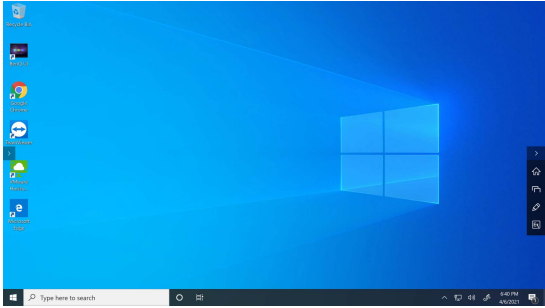





- **Conference:** Skype for Business

Skype for Business supports video conferences.

Side Tool Bar

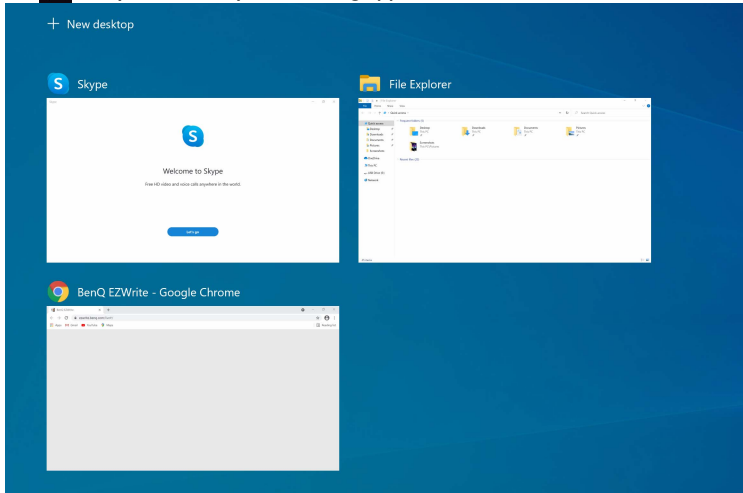


Function	Description
Windows Launcher 	Switch between Windows desktop mode and Windows launcher.
	
Windows Task View 	Support Windows task view for multi-windows behavior. Refer to Windows Task View on page 14 for more information.
Windows Ink 	Support Windows ink snapshot for painting and discussion. Refer to Windows Ink on page 15 for more information.
EZWrite Live 	Support EZWrite Live for distance discussion.

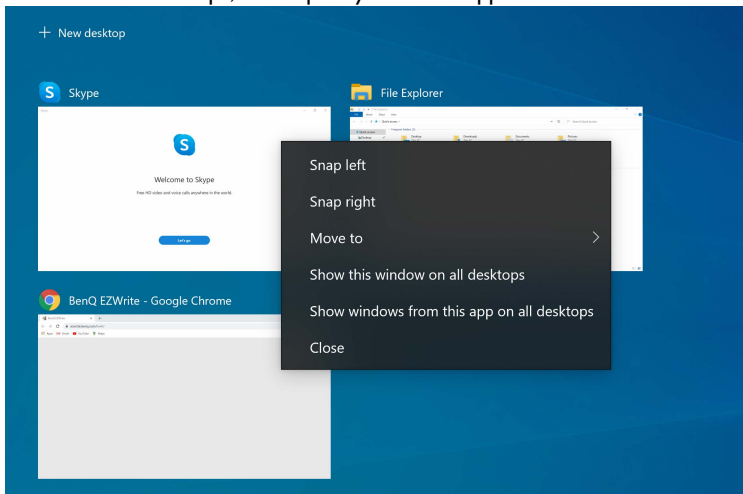
Windows Task View

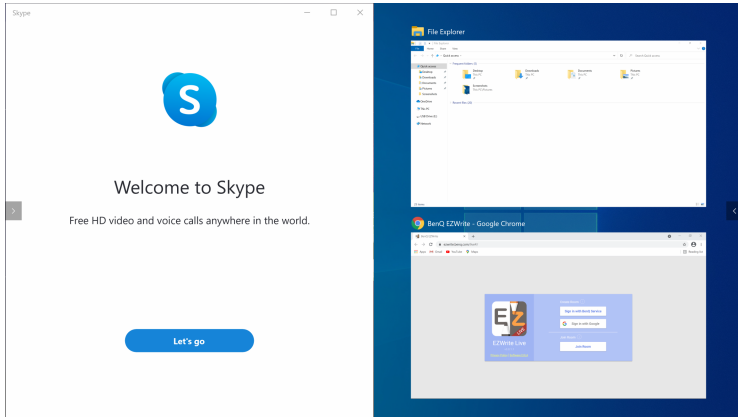
Windows Task View enables you to work more efficiently with multiple apps. With it, you can quickly jump between open applications and spread projects onto separate desktops.

1. Press  and you will see your running applications listed in the middle of the screen.




2. Long press and release an app to access its menu to perform common tasks, including the ability to move the app to the left or right of the screen, to show windows across desktops, or to quickly close the app.

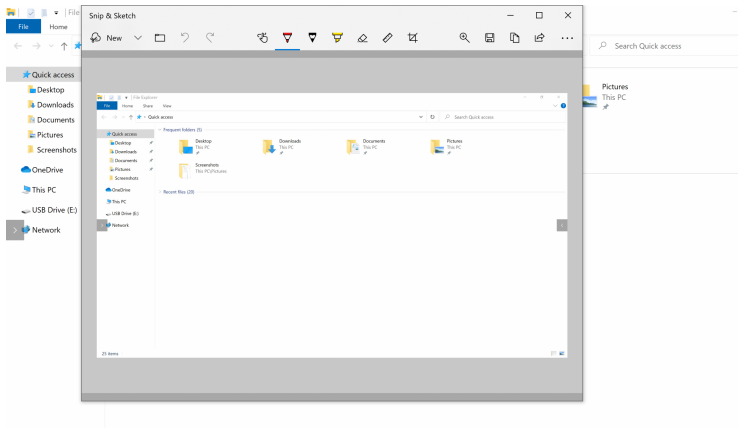




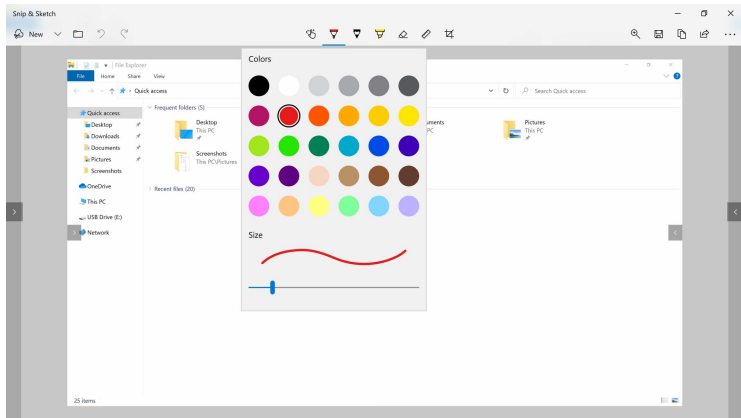
Windows Ink

Windows Ink enables you to share your ideas or draw on screenshots with your pen in the Windows Ink Workspace.

1. Press  and you can take a screenshot.

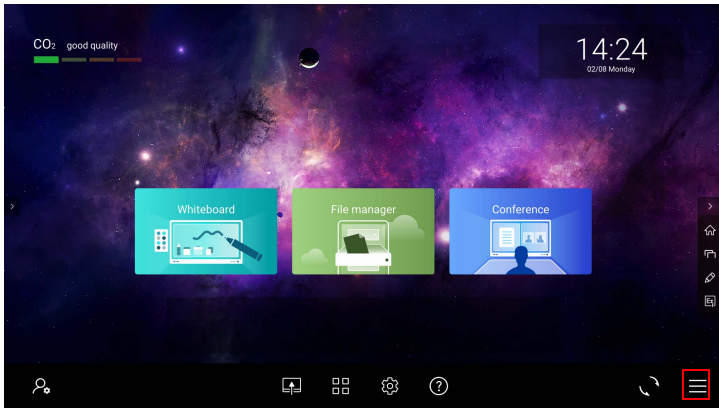


2. You can draw whatever you're doing on your display at the moment. All sketchpad tools are in Snip & Sketch.

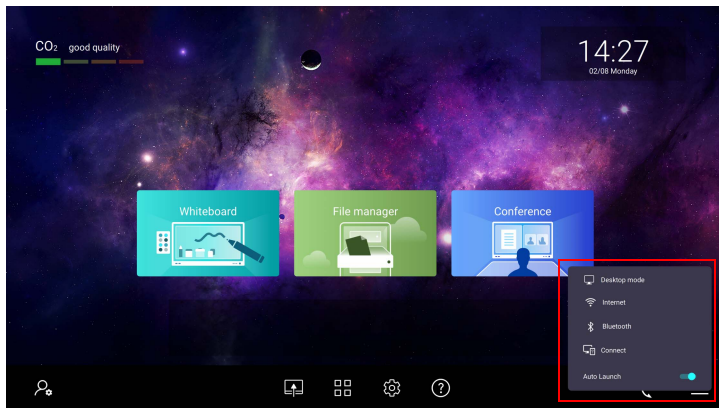


Quick Control

1. Press  to open Quick Control.

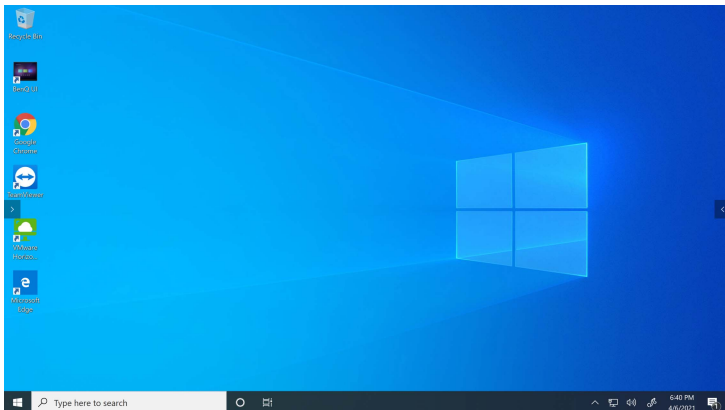
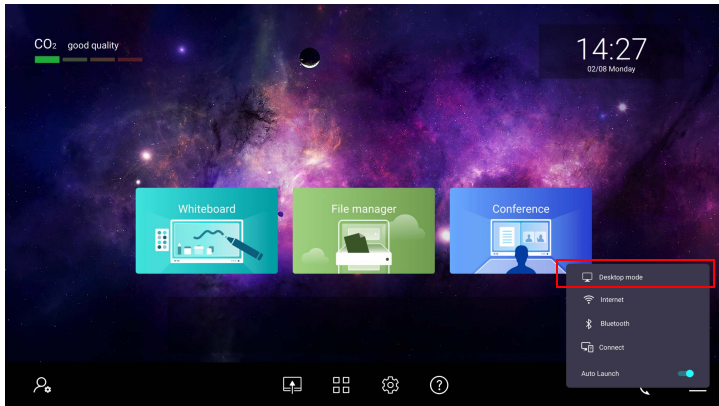


2. You can switch to **Desktop mode**, control **Internet**, **Bluetooth**, and **Connect**.



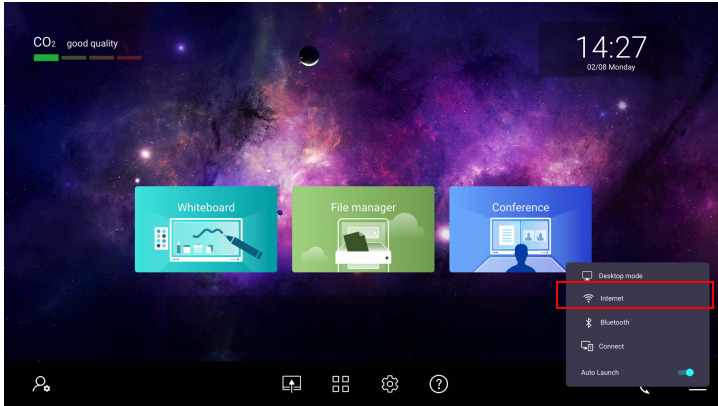
Desktop mode

To go back to the desktop, press **Desktop mode** to jump back to the Windows desktop.

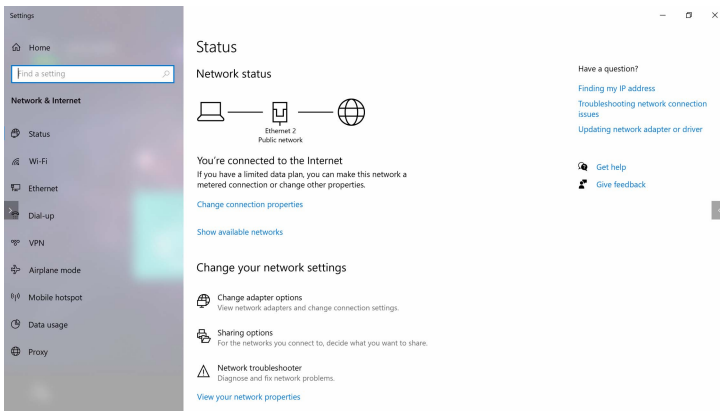


Internet

1. Press **Internet** to go to the Internet settings.

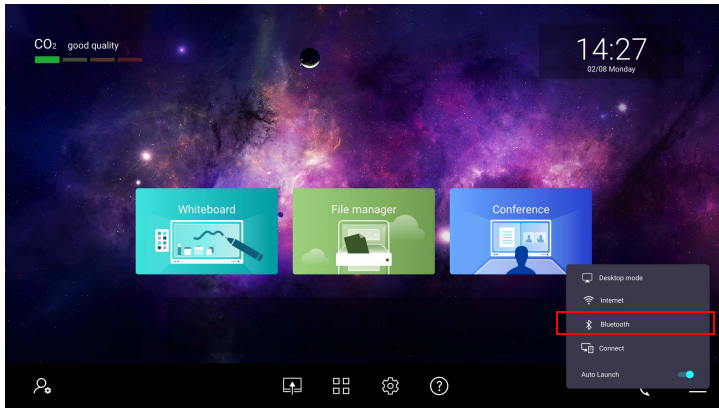


2. You can change your Internet connection settings here.

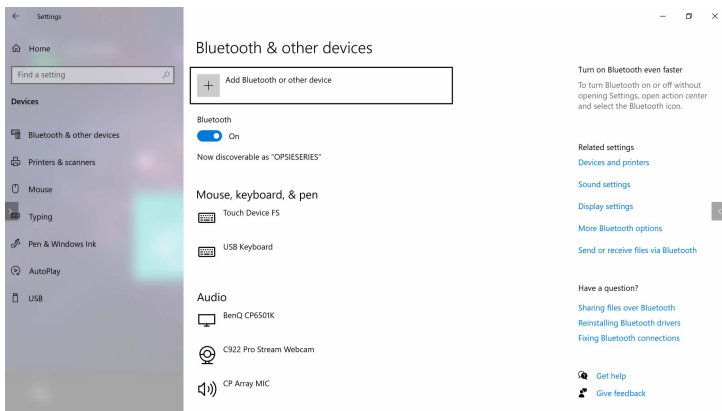


Bluetooth

1. Press **Bluetooth** to go to the Bluetooth settings.

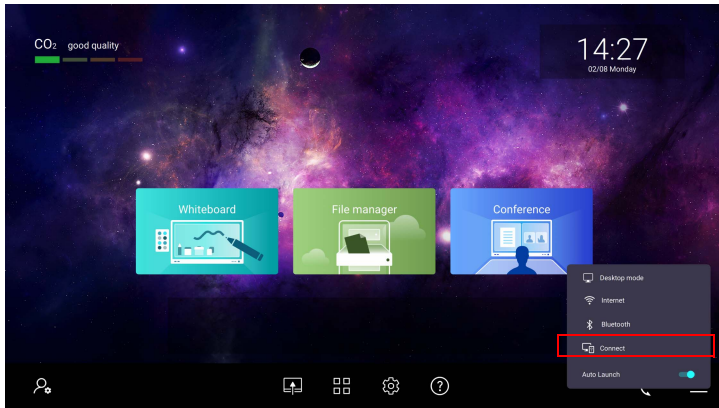


2. Search for Bluetooth devices to connect with your display.

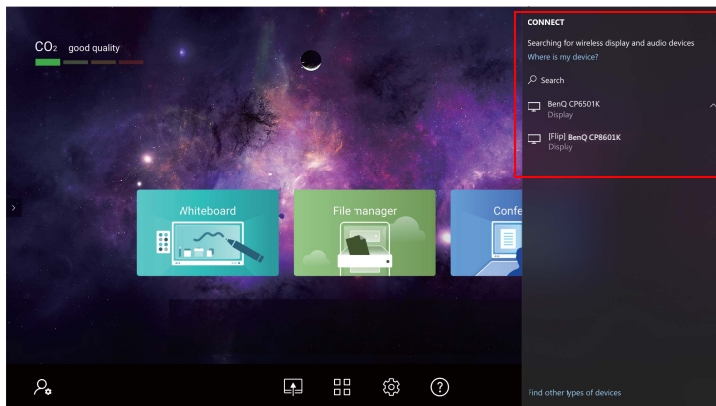


Connect

1. Press **Connect** to go to the Connect settings.



2. You can connect the display with the other display.



3. For **Connect** function, you can mirror or extend the screen.



Mirror the screen



Extend the screen