# IDS IoT Guide

IoT Setup for IDS04 and IDS54

# Contents

# Local Webpage Access

The IDS04 device has a network and device settings interface called **"Local Webpage"** which can be accessed via computer internet browser.

The Local Configurations Webpage can be accessed either with a computer on the same network as the IDS (Ethernet or Wi-fi) or offline with a direct connection with the IDS via Ethernet cable.
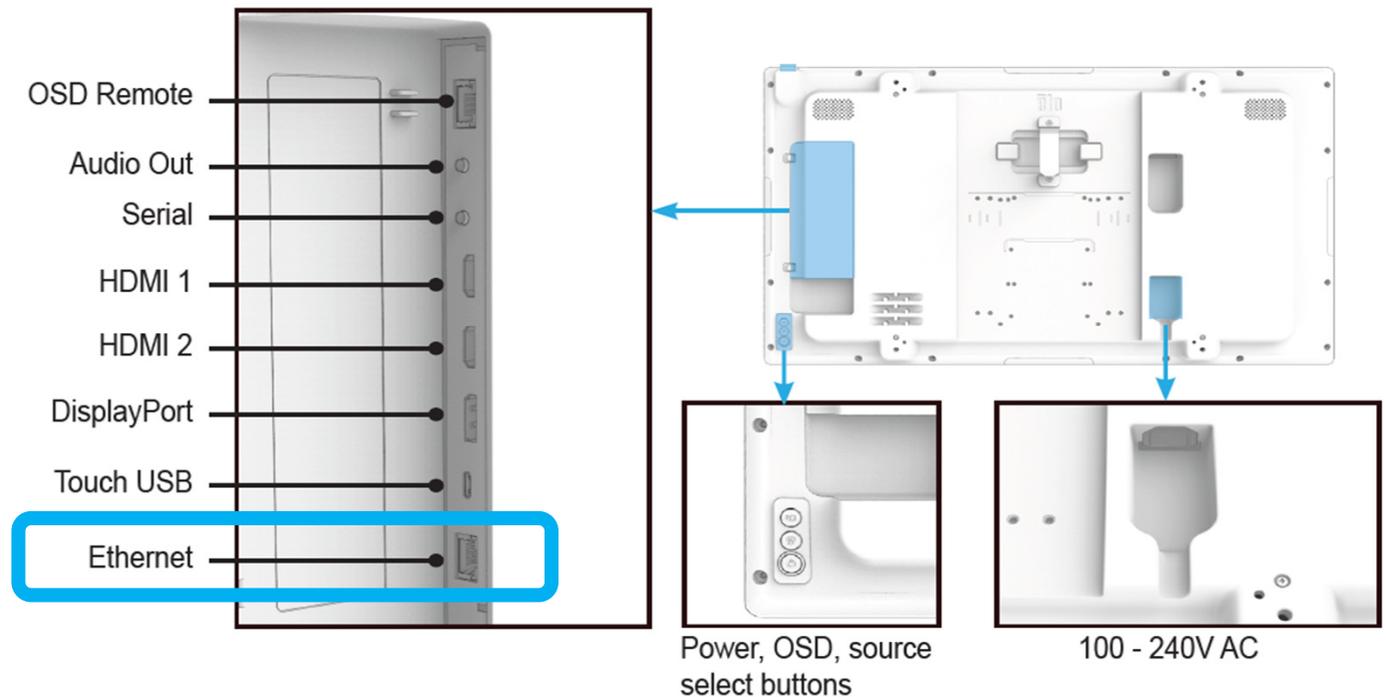
# Access Local Webpage via Ethernet DHCP assigned IP

Ensure your IDS is connected to the same router/internet domain as your PC before you get started.

NOTE: Please use the Ethernet port located at the bottom of the I/O as shown in the image below.

**Equipment you need**

- IDS device

- LAN Cable* (RJ45) and Router in DHCP mode

- PC (Windows/Linux/MacOS)



OSD Remote
Audio Out
Serial
HDMI 1
HDMI 2
DisplayPort
Touch USB
Ethernet

Power, OSD, source select buttons

100 - 240V AC

*The PC can also connect to router via Wi-Fi

# Access Local Webpage via Ethernet DHCP assigned IP (continued)

1. Check Information tab (shown below) in OSD menu (Click "→" in the information page to proceed to page 2)

2. Open PC web browser and key in the assigned IP (ex. 192.168.001.166)

NOTE: If the IP address is black, the IDS is connected via Ethernet. If it is blue, the IDS is connected via Wi-Fi.



IP assigned by router in DHCP mode

**Caution**: iOS Safari and Android browser may display IDSx4 Local Webpage with wrong resolution.
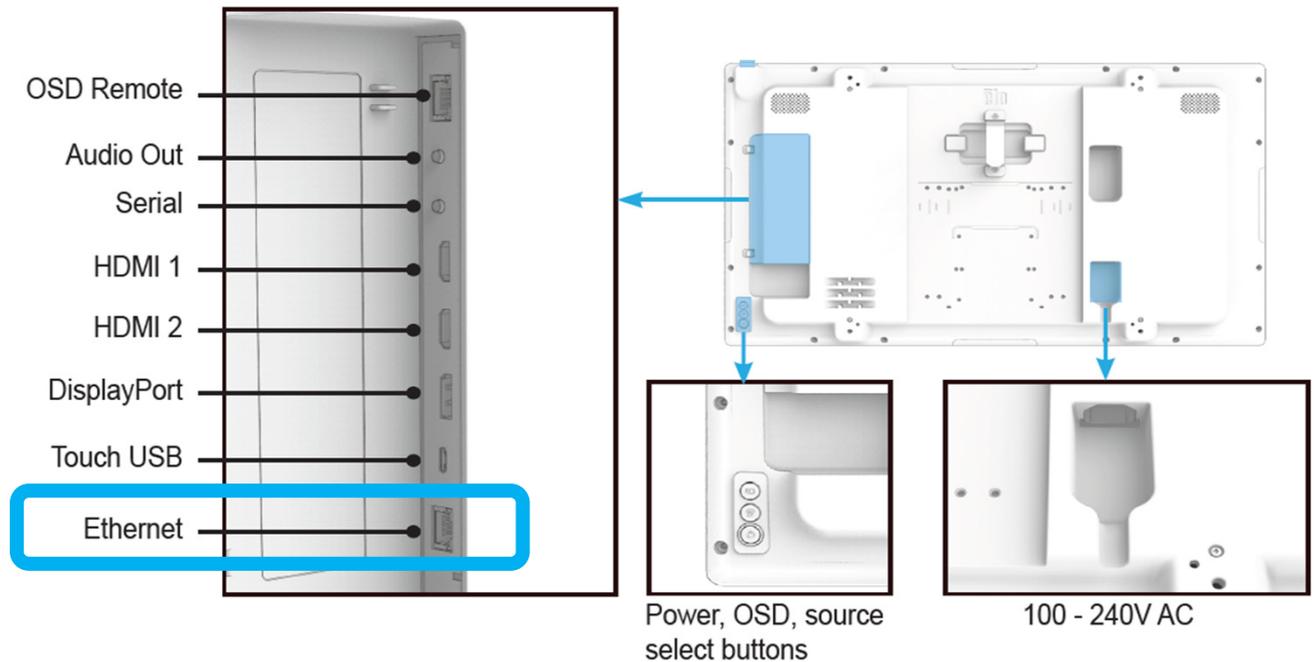
# Set up IDS via local webpage offline

- Ensure your IDS is connected to the PC with an Ethernet cable.

- To access the local webpage (offline) you must configure Static IP on your selected PC. Please follow the instructions on the proceeding pages for your preferred OS.

NOTE: Please use the Ethernet port located at the bottom of the I/O as shown in the image below.

**Equipment you need**
- IDSx4 device
- LAN Cable (RJ45)
- PC (Windows/Linux/MacOS)

1. Send MDC to enable ethernet static IP
2. Connect IDS to computer
3. Connect to local webpage with static IP



OSD Remote
Audio Out
Serial
HDMI 1
HDMI 2
DisplayPort
Touch USB
Ethernet

Power, OSD, source select buttons

100 - 240V AC

# Send MDC to enable IDS Ethernet static IP

**Equipment you need**

- IDS device
- Serial port to RS232 to USB cable, or serial port to USB cable.
- PC (Windows)

1. Connect device serial port (RS232) cable to audio jack on computer
2. Run RS232 MDC tool "USR-TCP232-Test, RS232 to Ethernet connection"
3. Select "PortNum" to match COM port (USB) in use.
4. Open connection with "Open"
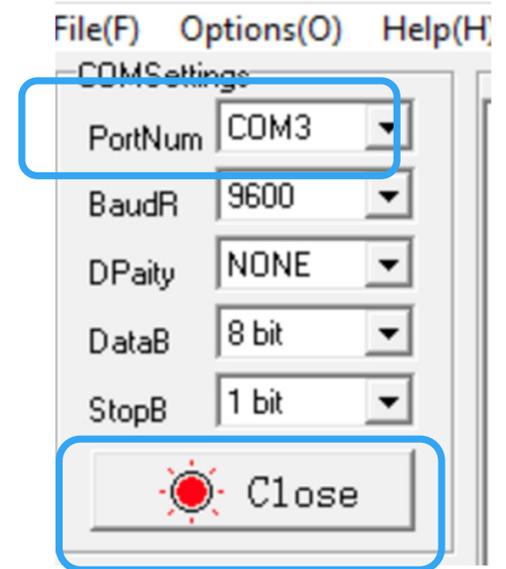
# Send MDC to enable IDS Ethernet static IP (continued)

5. Click checkbox "Send As Hex"

6. Clear out the extra hex in the text box at the bottom.

7. Enter MDC command for "Disable DHCP" (enable static IP Ethernet) into text box at the bottom:

   • 02 6E 85 FF 04 E4 00 00 DA 03

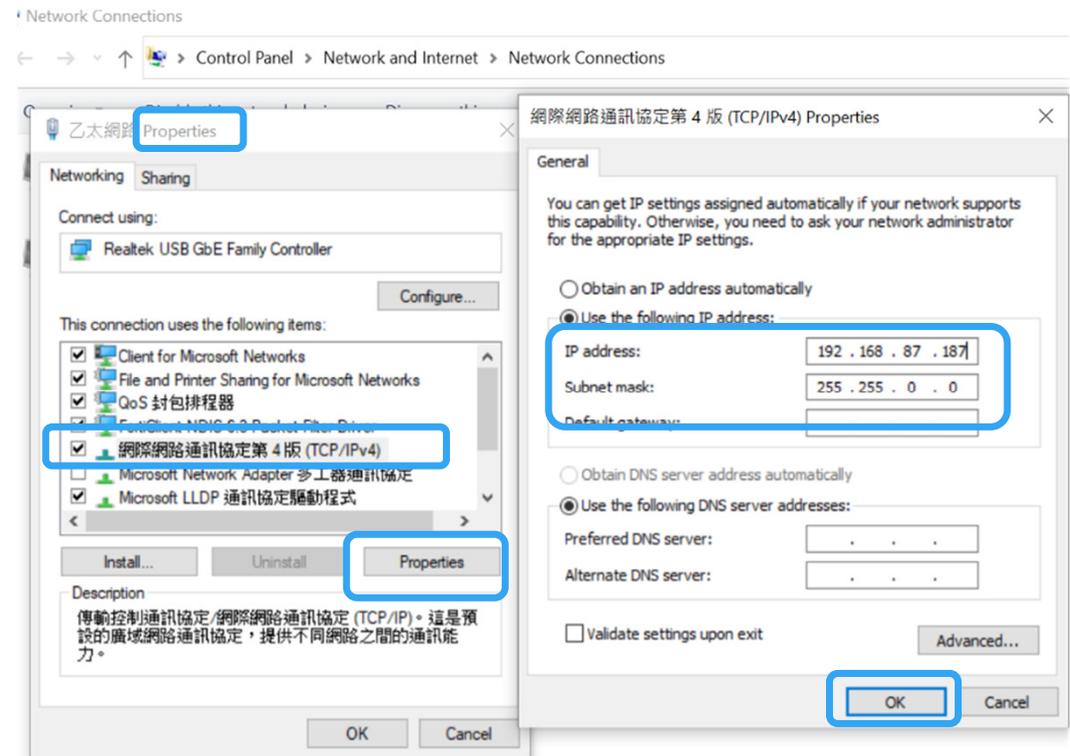8. Click "Send", and verify there is a response from the IDS device
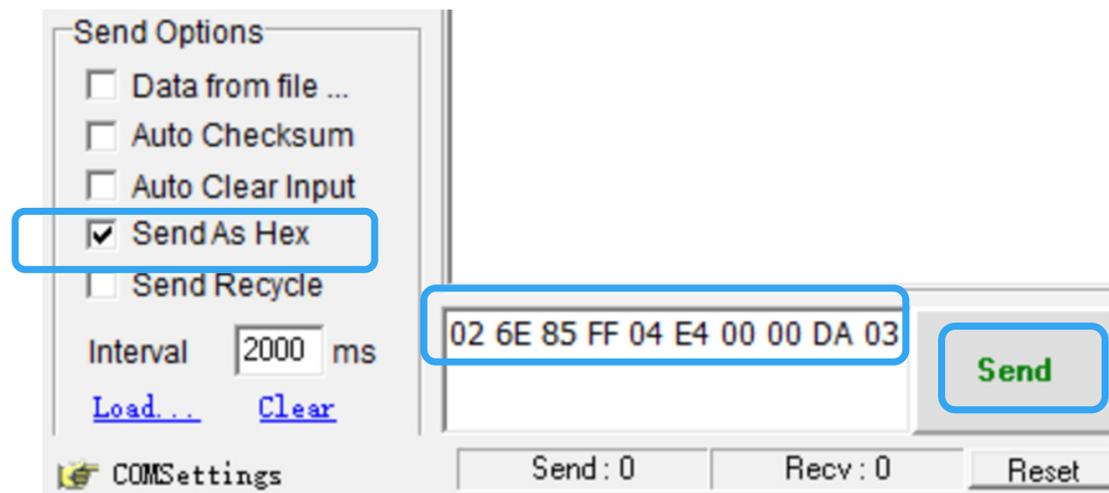
# Set Up Static IP - Windows OS

**Assign PC Static IP setting:**

To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

1. Select Ethernet Properties

2. Select TCP/IPv4

3. Click Properties

4. Set PC's static IP address: **192.168.87.X** (X=1~255, X cannot be 87)
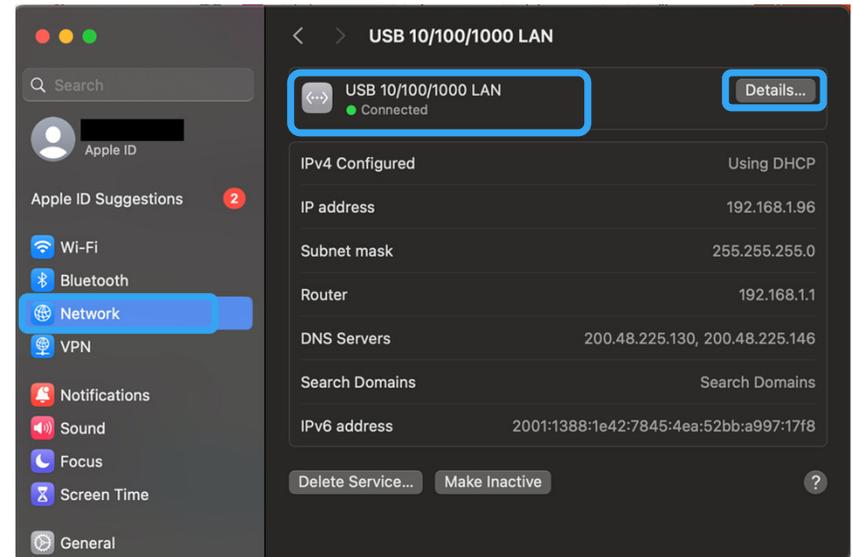
5. Set Subnet mask: **255.255.0.0**

6. Click OK

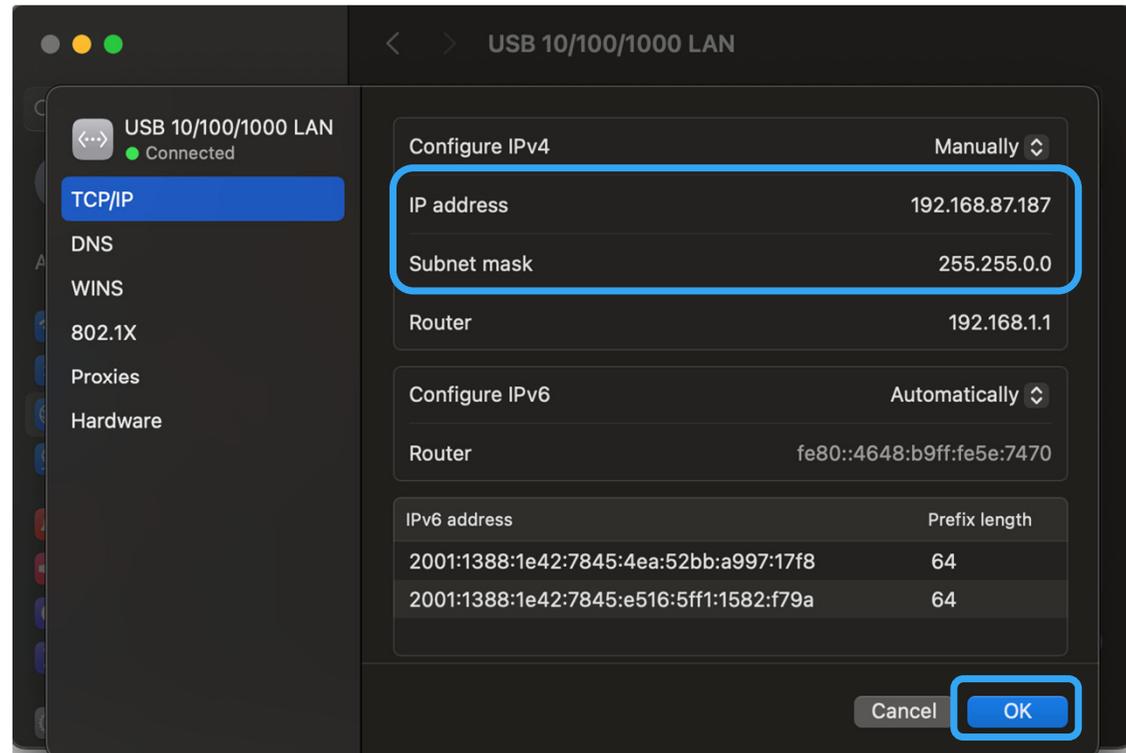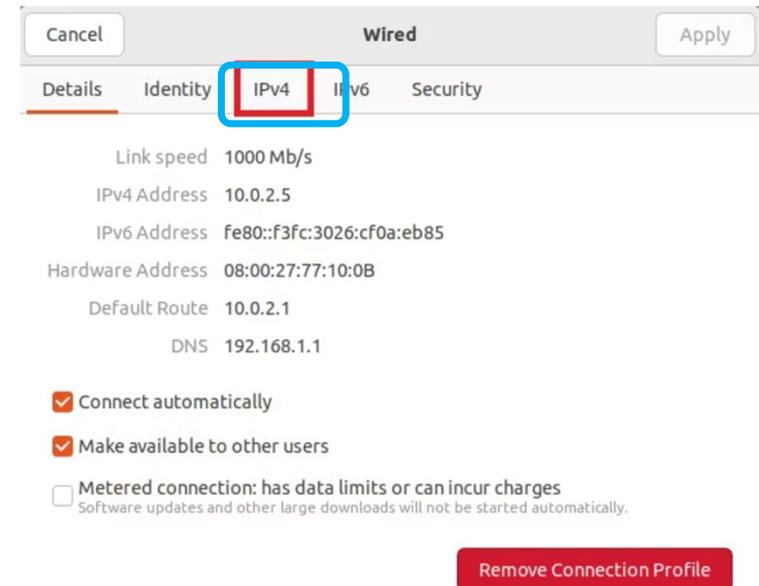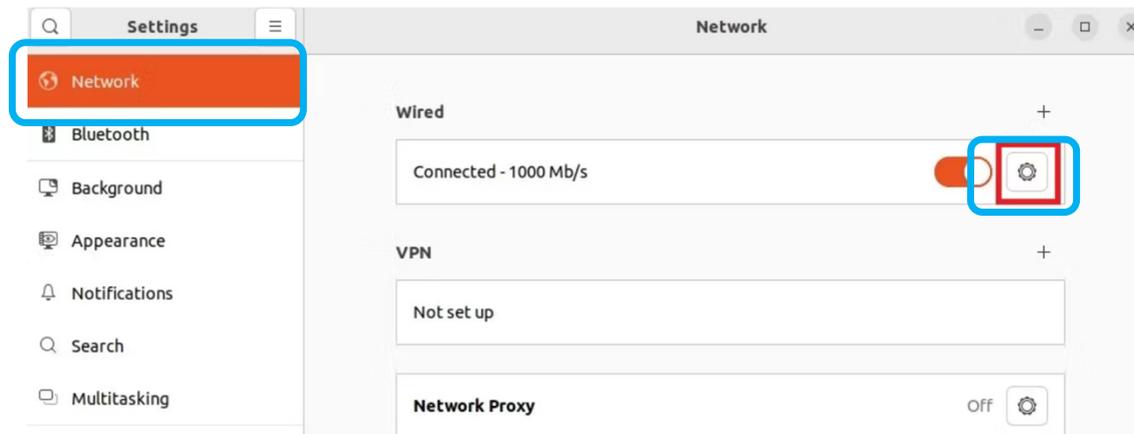# Set Up Static IP - Mac OS

**Assign PC Static IP setting:**
To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

1. Go to System Settings
2. Select Network
3. Select LAN
4. Click Details…
5. Select TCP/IP
6. Click Configure IPv4 dropdown
7. Select Manually
8. Click OK
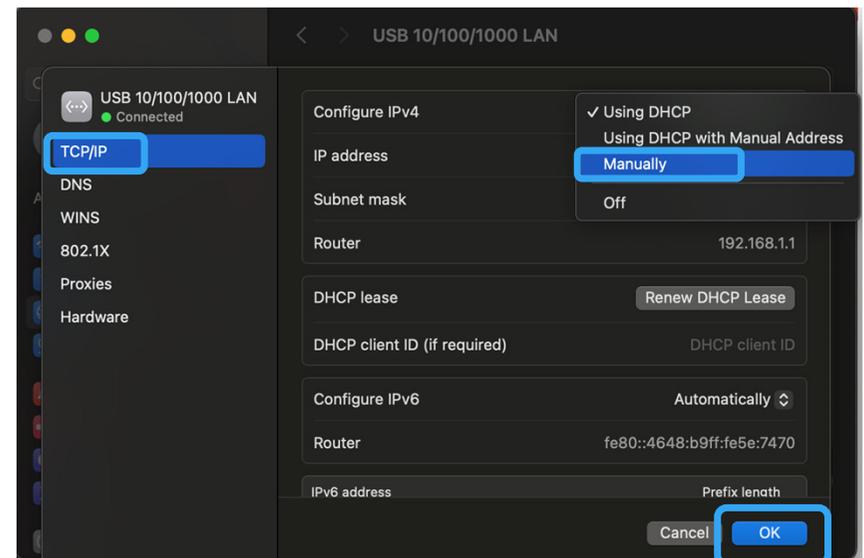
# Set Up Static IP - Mac OS (continued)

9. Set PC's static IP address: **192.168.87.X** (X=1~255, X can't be 87)

10. Set Subnet mask: **255.255.0.0**

11. Click OK

# Set Up Static IP - Linux Ubuntu 22.04

**Assign PC Static IP setting:**
To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

1. Go to System Settings

2. Select Network

3. Click Wired configuration

4. Select IPv4

# Set Up Static IP - Linux Ubuntu 22.04 (continued)

5.  Select "Manual"

6.  Set PC's static IP address: **192.168.87.X** (X=1~255, X cannot be 87)

7.  Set Subnet mask: **255.255.0.0**

8.  Click Apply
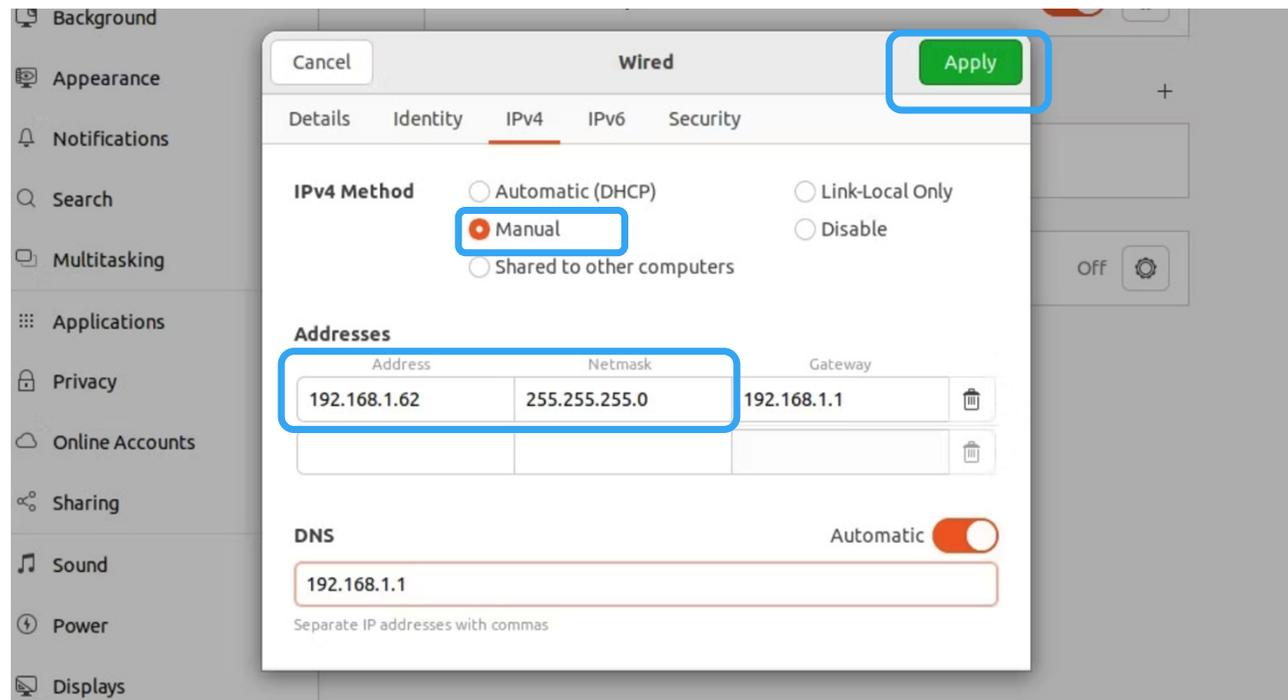
# Access Local webpage with static IP address

Open PC web browser and key in IP:
**192.168.87.87/page0.asp**

The home page(System Status) to IDSx4:



⚠️ **Caution**: iOS Safari and Android browser may display IDSx4 Local Webpage with wrong resolution.

# Local webpage: Wi-Fi network connection

Note: Review **QIG600246** (QIG IDS Wi-Fi adapter) for Wi-Fi adapter connection instructions.



⚠️ **Caution**: Remove AC power to the IDSX4 Display before installing /uninstalling Wi-Fi adapter or LAN cable

# Local webpage: Wi-Fi network connection (Cont'd)

1. Click "Wireless Setup" on menu

2. Click "SCAN NETWORK" to select Wi-Fi access point

# Local webpage: Wi-Fi network connection (continued)

3.  Select SSID and click "CONNECT"



Note: IDSx4 support WPA2-PSK security mechanism to Wi-Fi Protected Access.

# Local webpage: Wi-Fi network connection (continued)

4. Type passphrase and click "CONFIRM" to start Wi-Fi connection

# Local webpage: Wi-Fi network connection (continued)

5. Click "Info" on menu

6. Confirm Wi-Fi IP address is assigned by router in "WLAN Status" section

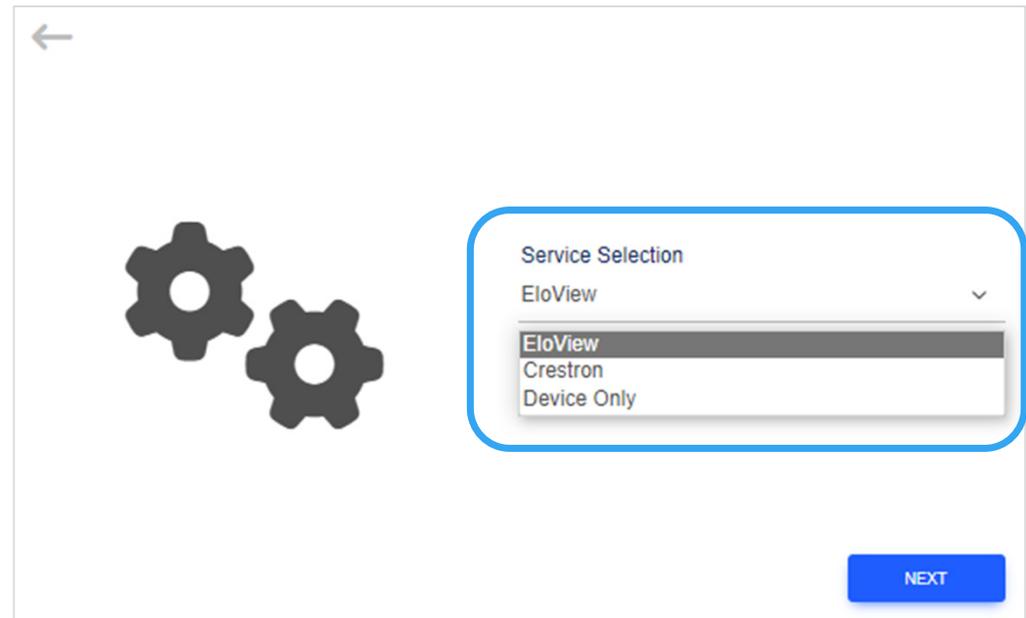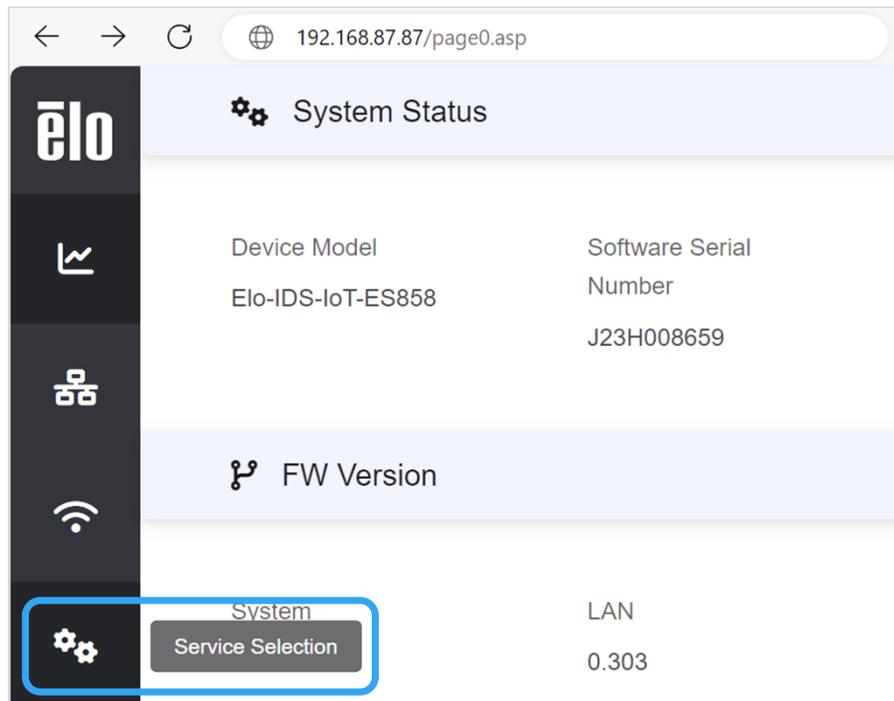Note: If the LAN port on the IDS Display is connected, it will have priority over the Wi-Fi adaptor

# Local webpage: Static IP configuration

Network Setup page: Manual static IP settings for Ethernet and Wi-Fi

# Local webpage: IoT service selection

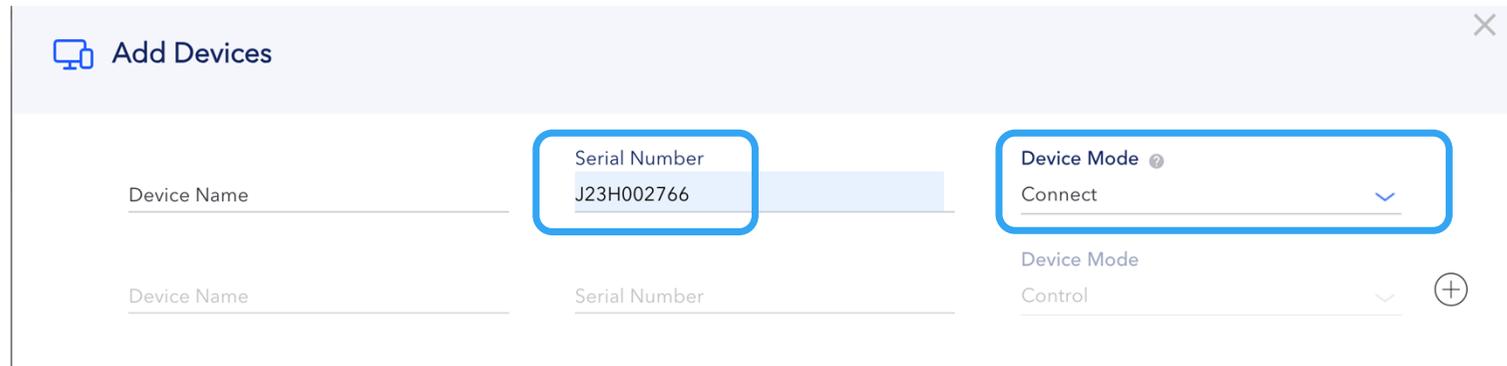1. Click "Service Selection" on menu



**Caution**: IoT will disconnect when no video signal detected, and system will go to sleep. (Energy Saving mode default Enabled.)

# Connect device to EloView

1.  Click "Add Device" in "Devices Tab"



2.  Add serial number and select "Connect Mode", click "Save"

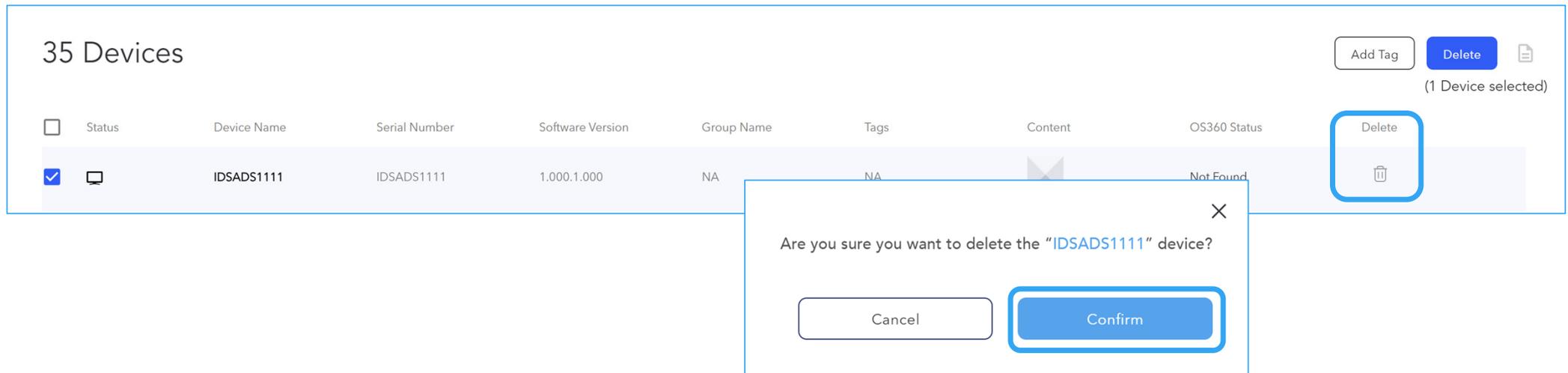# Connect device to EloView (continued)

3. Confirm IDS is visible and online (green) in EloView

# Eliminate device in EloView

1. Click the delete waste container icon 🗑
2. Click "Confirm" to eliminate
3. Reboot IDS device (unplug/re-plug AC power)

# Connect device to Crestron via Ethernet/Wi-Fi

**CRESTRON CONNECTED**

1. Access the Crestron settings tab in the menu for CCV2

2. Click "APPLY" when config is complete



IDS04/54 are Crestron certified and are compatible with the Crestron XiO Cloud "Service"

# Firmware update via OTA in EloView

1. Login to EloView

2. Go to Software tab

3. Click text "Update available" to start OTA

# Firmware update via OTA in EloView (continued)

## *Firmware updating*

Note: Message box will appear for about **8 minutes** until firmware update is completed.



⚠️ **Caution**: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

# Firmware update via OTA in EloView (continued)

4.  Confirm update

Note: After firmware update is complete, the IDS will reboot automatically.

5.  Check Information page in the OSD menu to confirm Firmware version has successfully updated.
    (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)



Take 0.304 0.303 for example, 0.304 = Scaler FW, 0.303 = IoT FW

# Firmware update via OTA in OSD menu

1. Start OTA

2. Power on IDS

3. Press menu button to open the On-Screen-Display Menu.

4. Click Button "FW Update (OTA)" in Configuration page



**Menu button**



| | | |
| --- | --- | --- |
| Video | | |
| Color | | |
| Audio | Source Port Lock | HDMI1 ⬤ HDMI2 ⬤ |
| Information | | Display Port ⬤ USB-C ⬤ |
| Power | | |
| Time | FW Update (OTA) | ⬤ |
| On Screen Display | FW Update (USB) | ⬤ |
| Configuration | Setting Clone via USB | ⬤ ⬤ |
| | | Import Export |
| | Power Button Lock | ⬤ |

**ēlo**
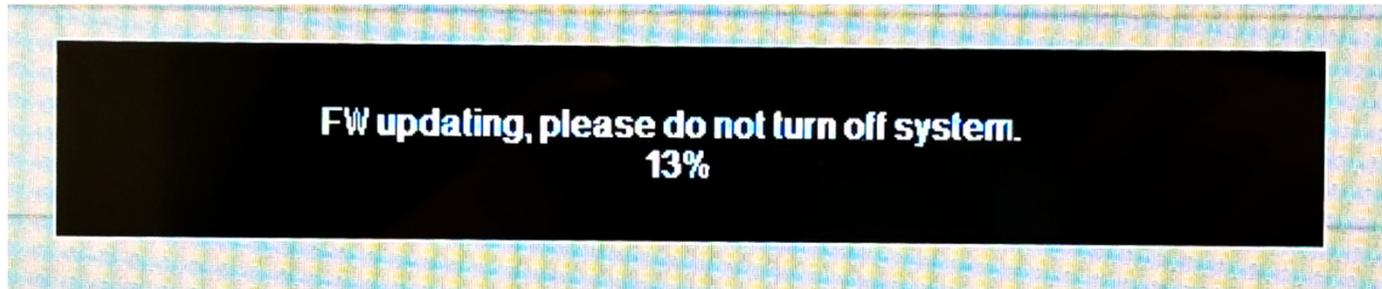
Active Video Resolution: 1920x1080, 60Hz

⚠️ **Caution**: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

# Firmware update via OTA in OSD menu (continued)

*Firmware updating*

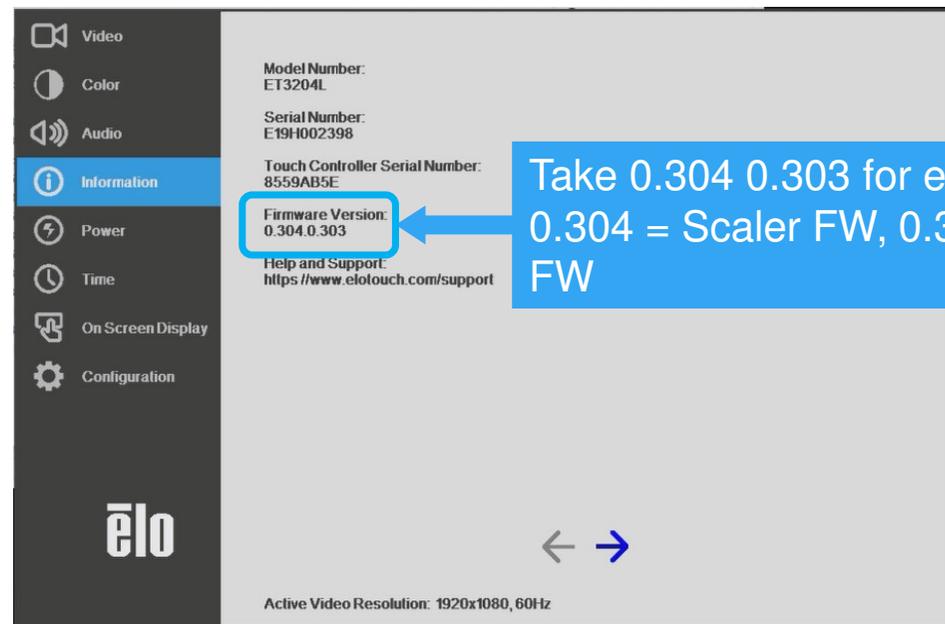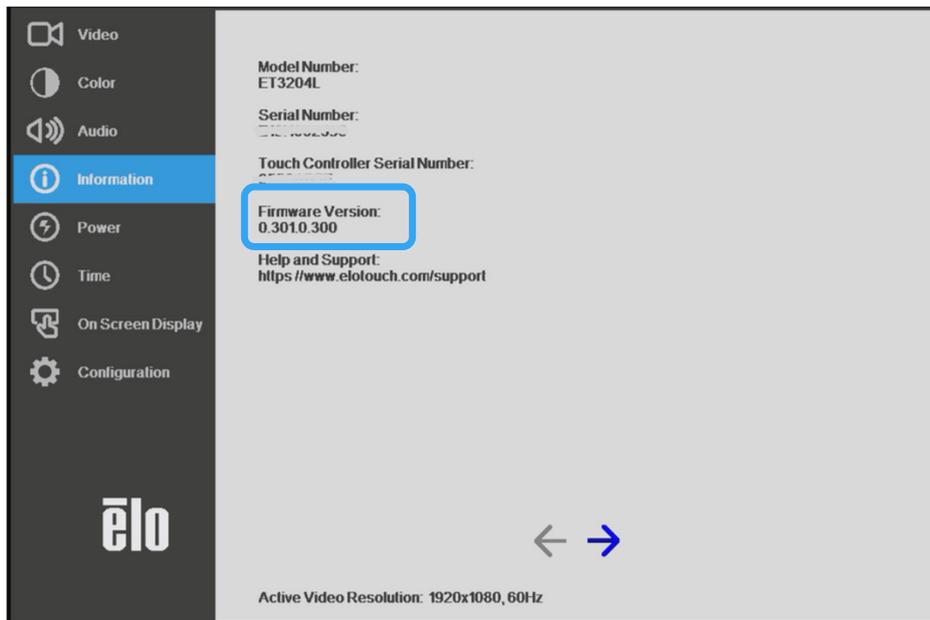Note: Message box will appear for about **8 minutes** until firmware update is completed.



⚠️ **Caution**: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

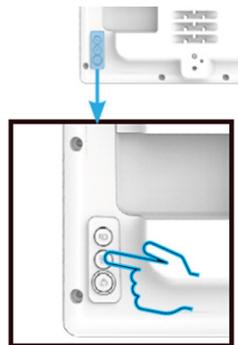# Firmware update via OTA in OSD menu (continued)

4. Confirm update

Note: After firmware update is complete, the IDS will reboot automatically.

5. Check Information page in the OSD menu to confirm Firmware version has successfully updated.
   (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)
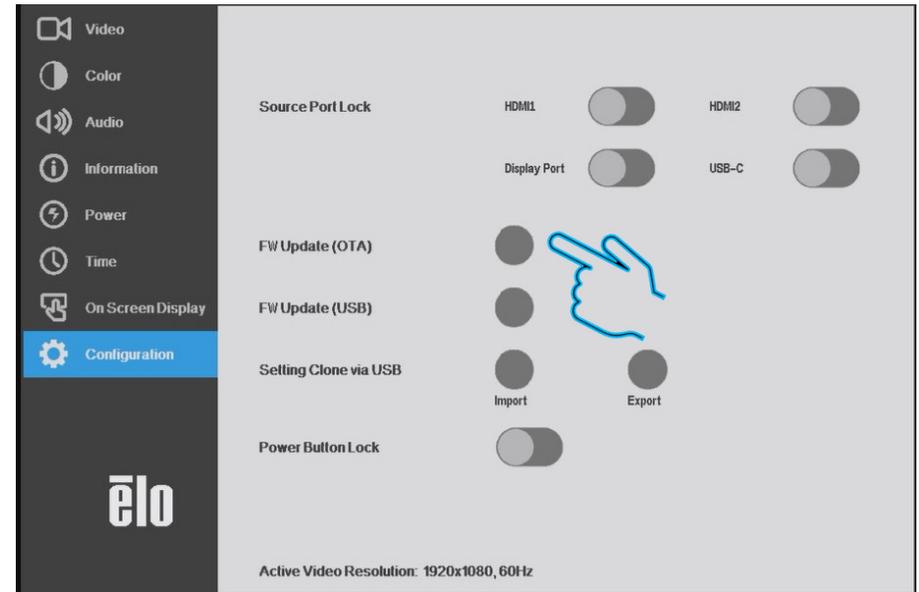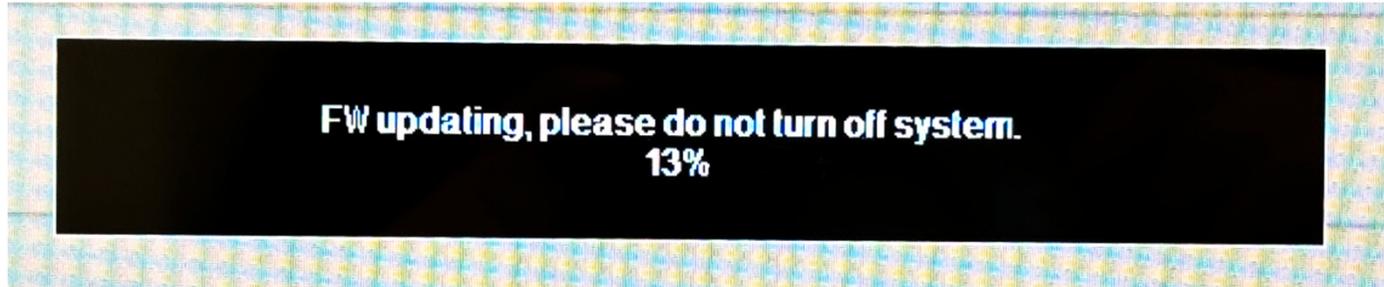


Take 0.304 0.303 for example, 0.304 = Scaler FW, 0.303 = IoT FW
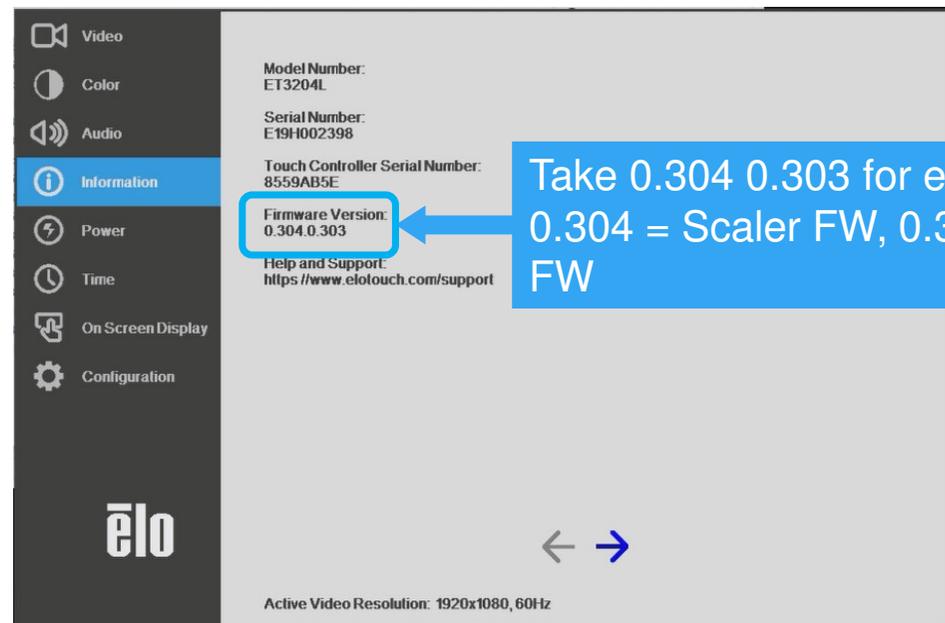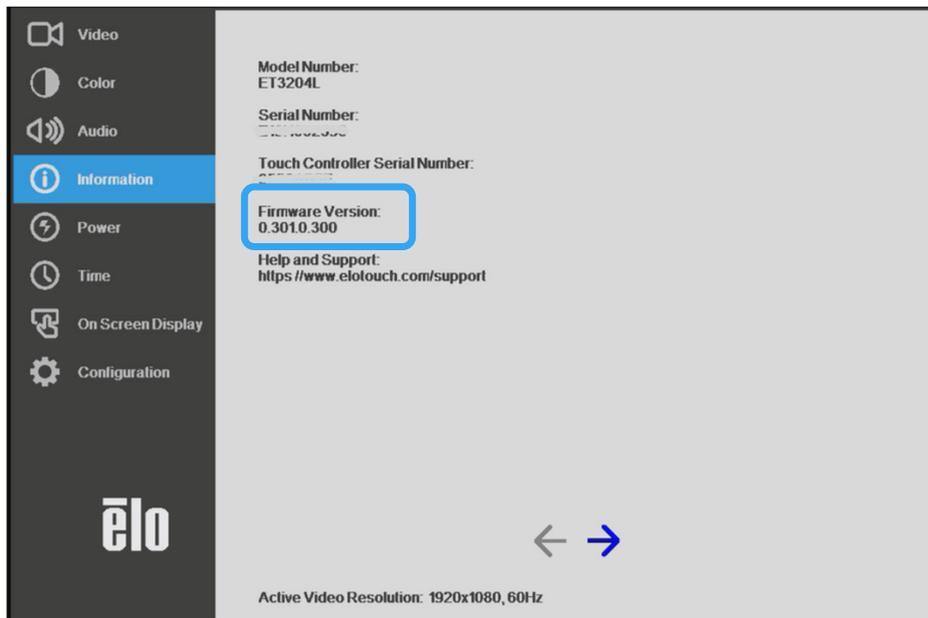
# Firmware Flash via USB

1. Download firmware package and store into USB flash (.pkg)
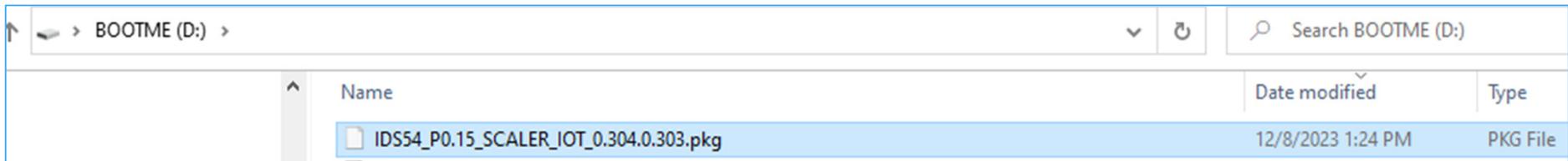


NOTE: The USB flash needs to be formatted to **FAT32** file system and must be **less than 32GB.**

# Firmware Flash via USB (Continued)
## Disk partition for USB drive larger than 32GB (Win10/11)

A. Right-click the Start button and select "Disk Management".
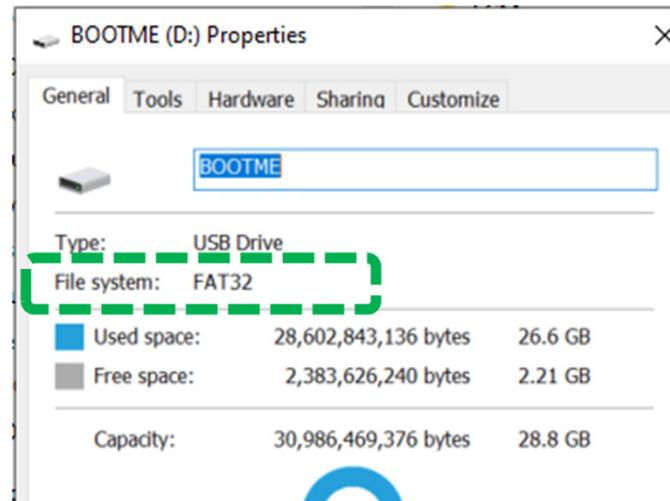
B. Right-click on the USB Disk and select "New Simple Volume…"

C. Create new volume less than 32GB(32767MB) and assign drive letter (default)

D. Make sure using FAT32 format (default) and click next till new volume created.
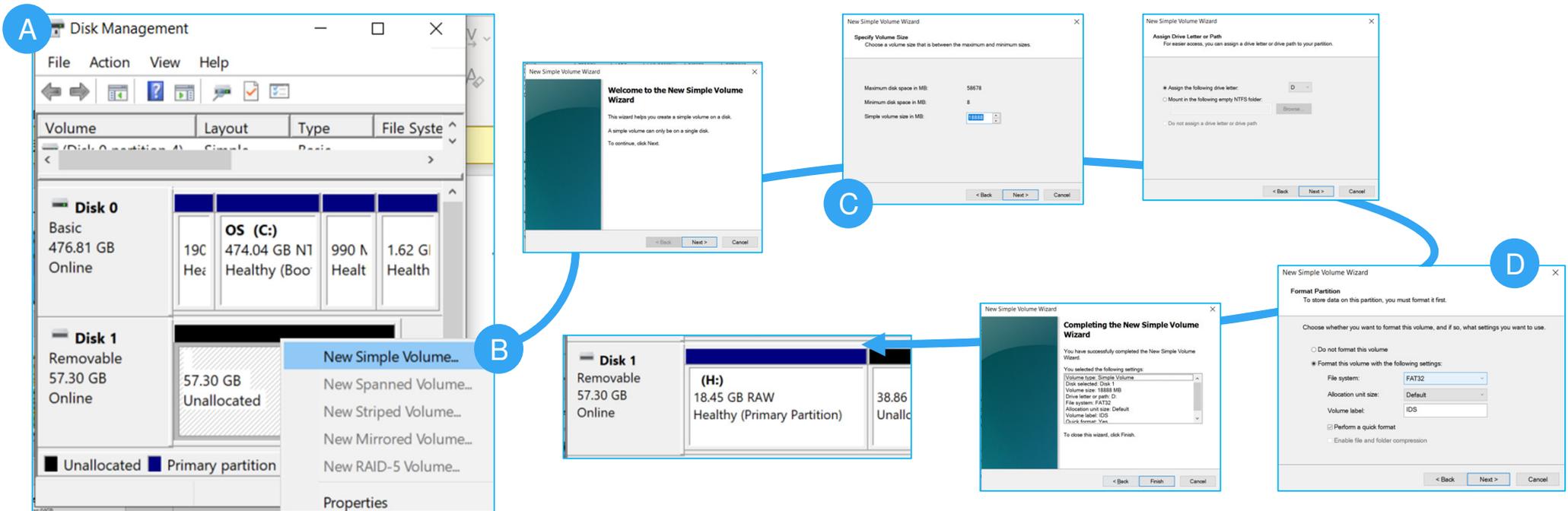
# Firmware Flash via USB (continued)

2. Power on IDS and insert USB after IoT chip has loaded

3. Remove USB (Wi-Fi Adaptor) security cover
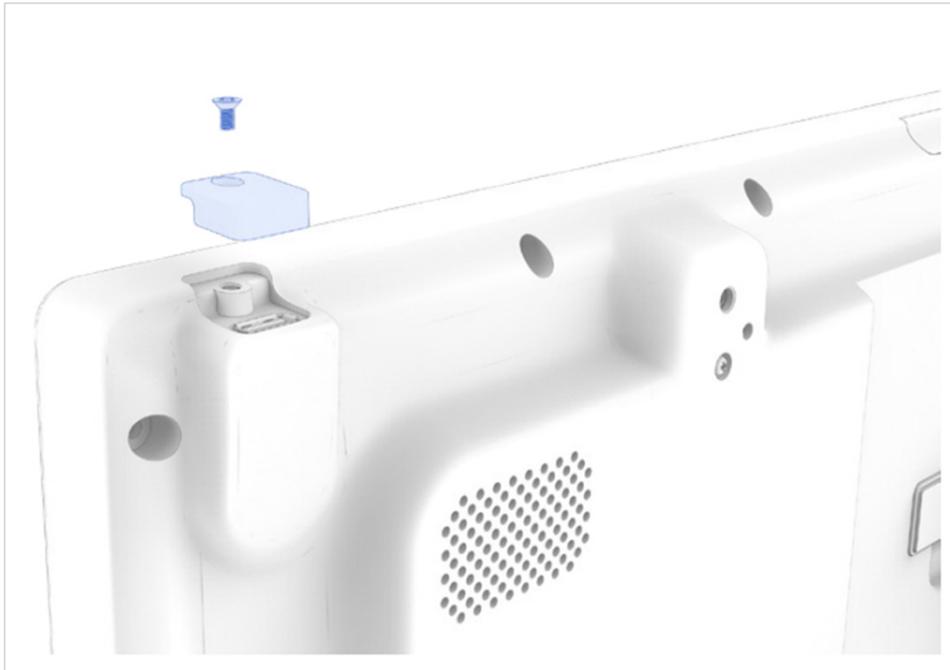
# Firmware Flash via USB (continued)

Confirm IoT has loaded

4. Press OSD Menu Button.
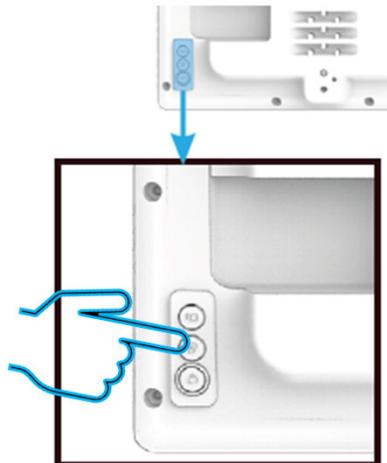
5. Go to **Information** page, verify that FW version is NOT showing "X.XXX"
(IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90seconds.)
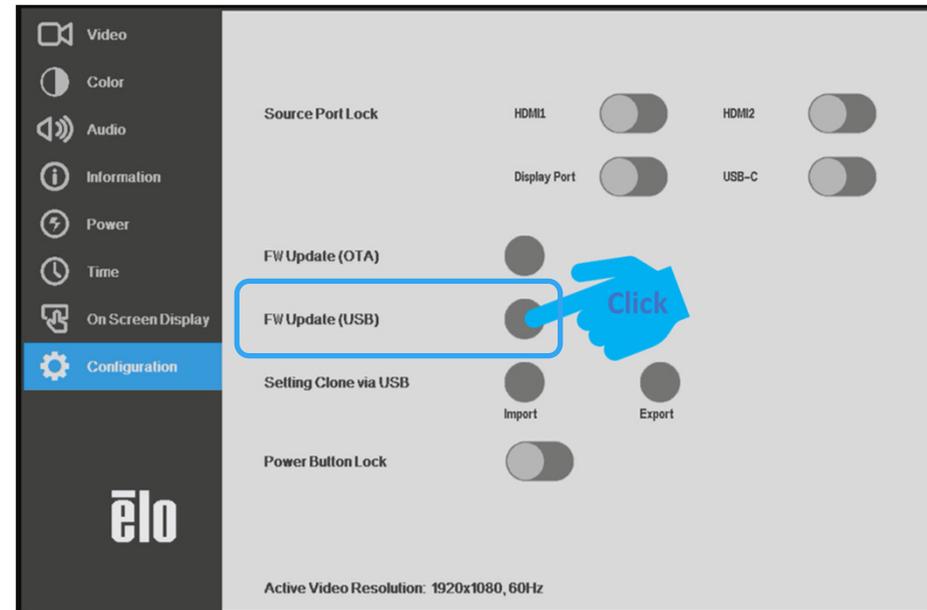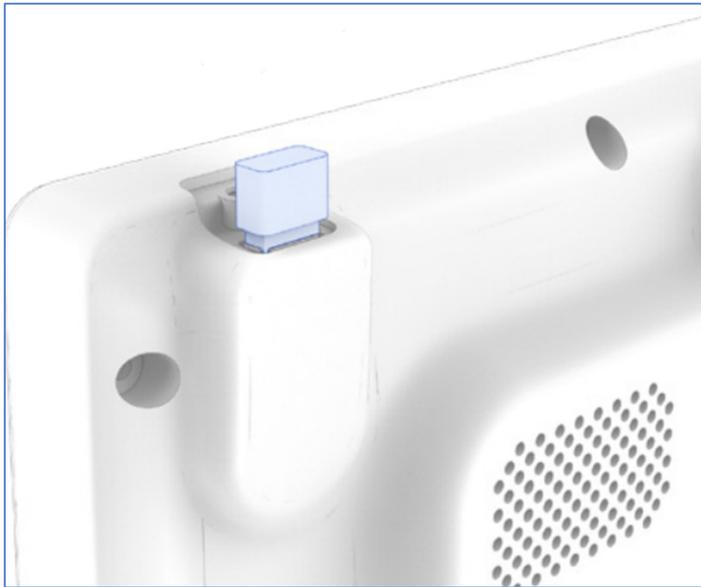


Power, OSD, source
select buttons



IoT FW v0.303

# Firmware Flash via USB (continued)

6. Connect the USB drive with .pkg file from Step 1.

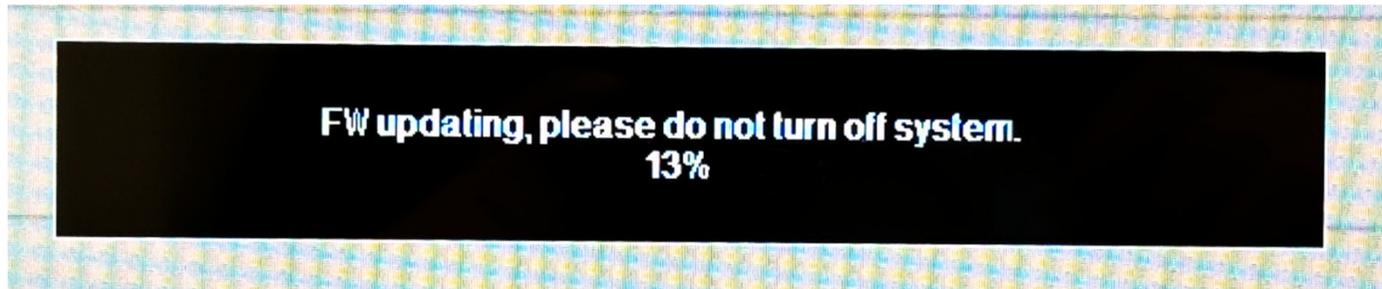7. Go to Configuration page, Click Radio Button "FW Update (USB)" in OSD menu





⚠️ **Caution**: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

# Firmware Flash via USB (continued)

*Firmware flashing*

- Firmware flash will start if there is a valid firmware file in the USB drive

- Message box will appear for about **8 minutes** until firmware flash is completed.
    (FW update fail at a)0-50%: will auto retry, b)51-97%: need manual recover IoT, c)98%-99% do FW update again manually)



> ⚠️ **Caution**: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE
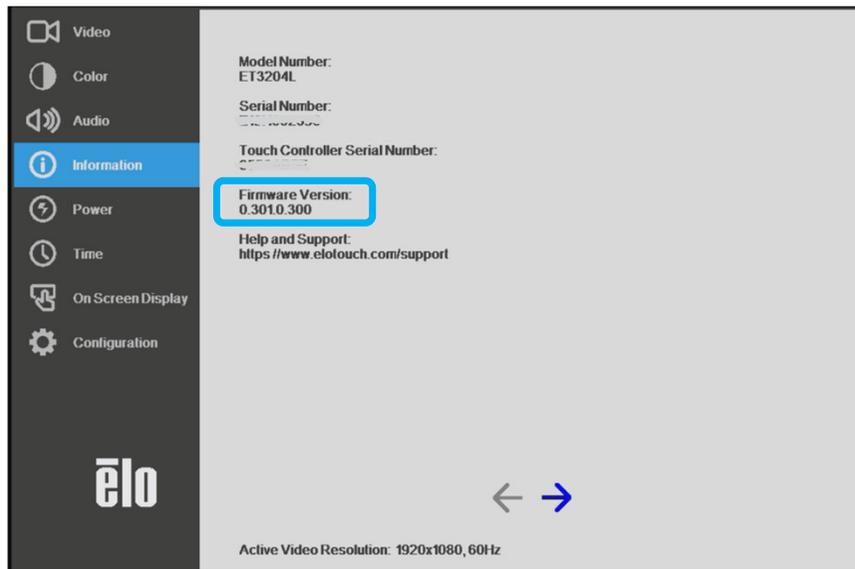
# Firmware Flash via USB (continued)

Confirm flash verification

Note: After firmware flash is completed, the IDS will reboot automatically.

8. Check Information page in the OSD menu to confirm Firmware version has successfully flashed. (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)

9. Remove USB drive

Before



After



Take 0.304 0.303 for example, 0.304 = Scaler FW, 0.303 = IoT FW