ATOMOS

SHINOBI 7 II

CANON CINEMA RANGE SETUP GUIDE

Camera control via ethernet

Connect a Canon Cinema EOS C50, EOS C80 or EOS C400 camera to Shinobi 7 II to access camera control and touch focus over Ethernet

WHAT YOU NEED

- Atomos Shinobi 7 II running **AtomOS 11.08.01** or above.
- A supported Canon camera with the following firmware:
  - **EOS C50: 1.0.4.1 or later**
  - **EOS C80: 1.0.6.1 or later**
  - **EOS C400: 1.0.6.1 or later**
- An Ethernet cable for a direct connection, or two Ethernet cables and a router with DHCP enabled.
- An HDMI cable for the camera's video output.

Note: Camera control limited to movie mode over ethernet. EOS C50 allows for camera control in stills mode over USB-C.

CAMERA PREPARATION

EOS C50 initial setup

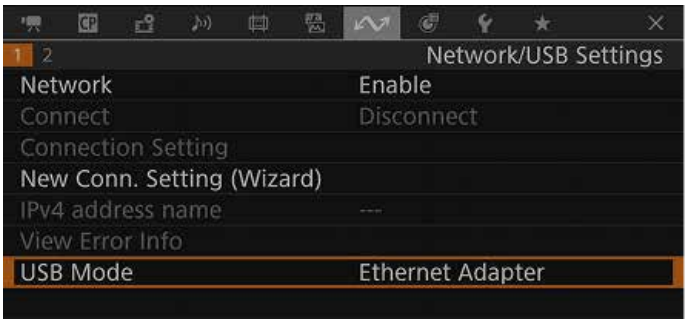
The EOS C50 requires a USB-to-Ethernet adapter. Refer to Canon's certified devices for C50:

https://support.usa.canon.com/kb/s/article/Ethernet-Adapters-Confirmed-to-Work-with-the-EOS-C50

Ethernet operation requires the Canon Battery Coupler DR-E6P and USB Power Adapter PD-E2.

Connect the Ethernet adapter to the camera's USB port.

In **Network/USB Settings**, set **USB Mode** to **Ethernet Adapter**.



EOS C80 initial setup

The EOS C80 has a built-in Ethernet port. No extra setup is needed.

EOS C400 initial setup

As the C400 does not have an LCD display, an external SDI monitor is required to display camera menus while setting up camera control.

Connect an SDI monitor or recorder and enable the camera's on-screen display for its SDI output.

Disable the on-screen display for the HDMI output connected to Shinobi 7 II.

Note: if a network configuration is already active in the camera

Disable the camera's current network function before changing its network settings. Follow the steps below to create and save a new XC Protocol configuration, then select the new configuration and enable it.

CAMERA CONTROL SETUP

Two connection methods can be used for camera control depending on requirements, either (1) a direct connection or (2) a connection through a router.

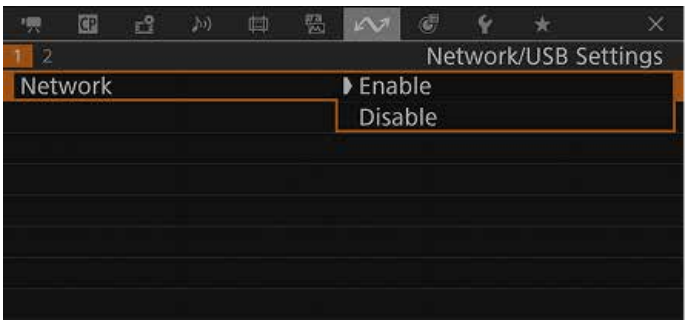
Option 1: Direct connection

Connect the camera and monitor

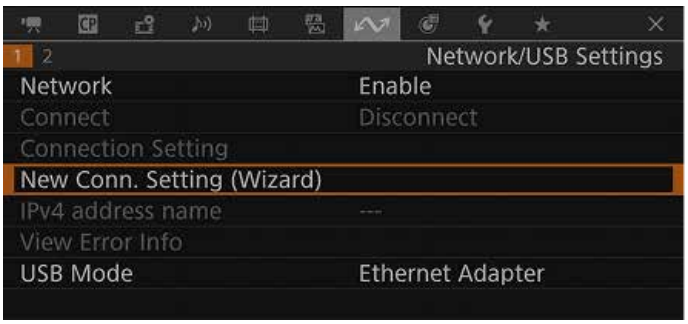
1. Connect the camera's HDMI output to the HDMI input on Shinobi 7 II.
2. Connect an Ethernet cable directly between the camera and Shinobi 7 II.
3. Make sure both devices are powered on.

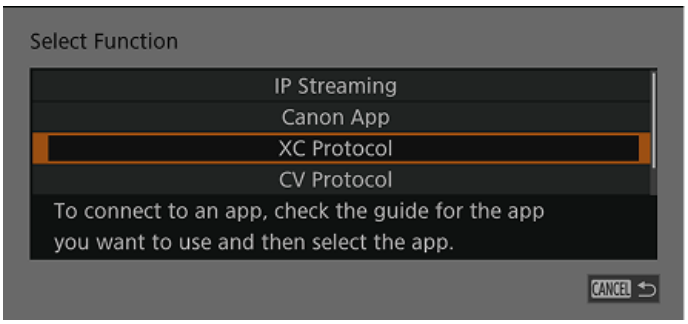
Configure the camera

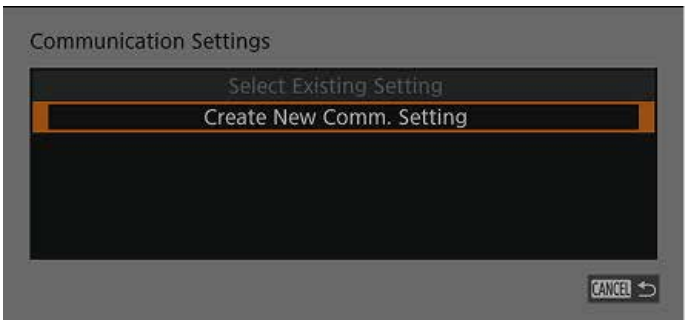
1. Open the camera's network settings and set **Network** to **Enable**.



2. Select **New Conn. Setting (Wizard)**.
3. Select **XC Protocol**.
4. Select **Create New Comm. Setting**.
5. Select **Ethernet**.

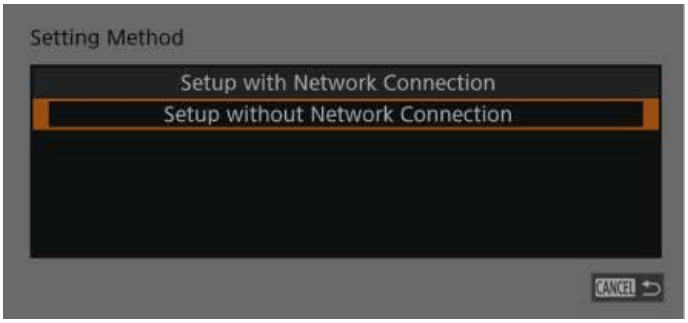


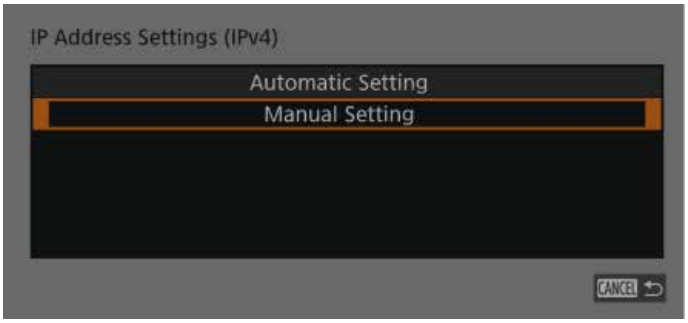




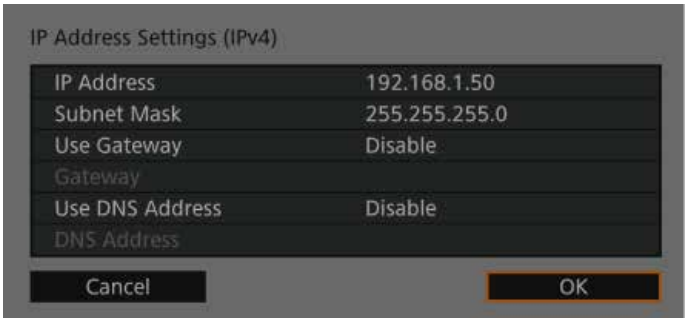


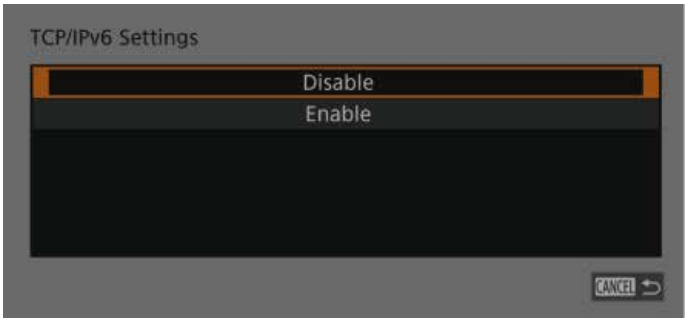
6. Select **Setup without Network Connection**.
7. Under IP Address Settings (IPv4), select **Manual Setting**.



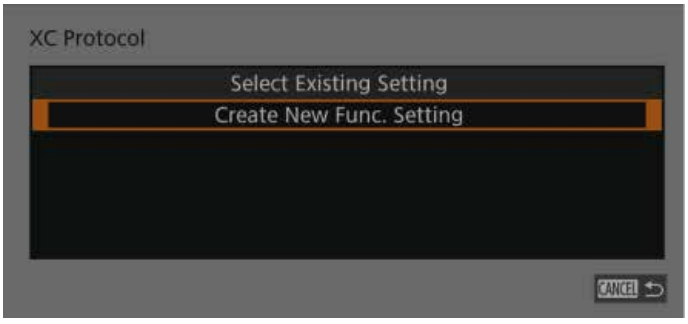


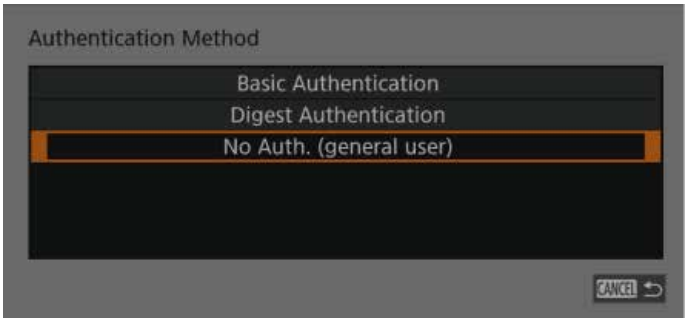
8. Enter these network settings:
   - **IP Address: 192.168.1.50**
   - **Subnet Mask: 255.255.255.0**
   - **Use Gateway: Disable**
   - **Use DNS Address: Disable**
9. Select **OK**.
10. Set **TCP/IPv6 Settings** to **Disable**.



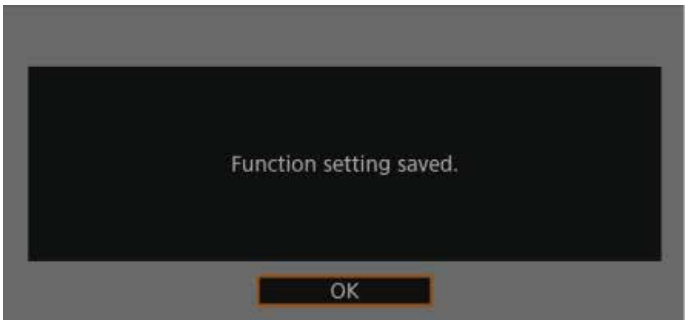


11. Confirm the communication settings have been saved.
12. Select **Create New Func. Setting**.
13. Under **Authentication Method**, select **No Auth. (general user)**.





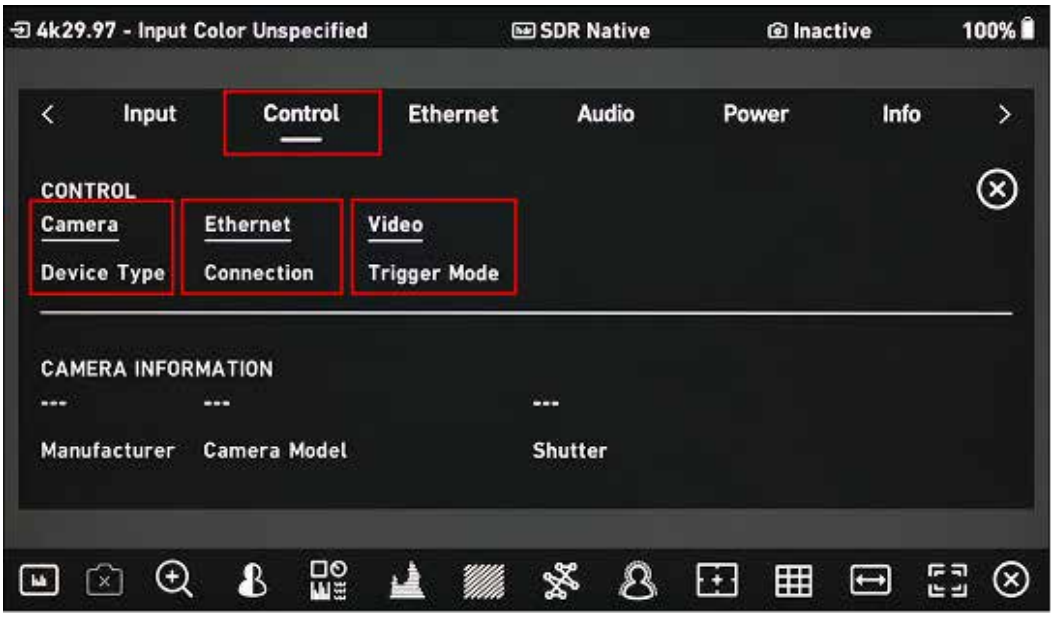
14. Confirm the function settings have been saved, then choose an available connection setting slot.





Configure Shinobi 7 II

1. Open the **Control** tab.
2. Set **Device Type** to **Camera**.
3. Set **Connection** to **Ethernet**.
4. Set **Trigger Mode** to **Video**.



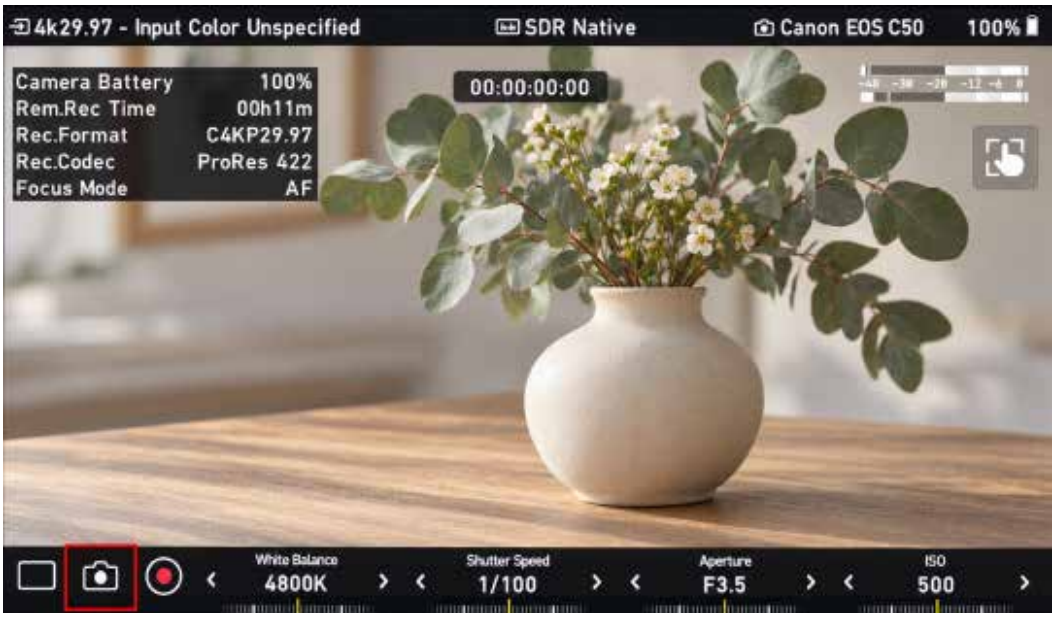
5. Open the **Ethernet** tab and set **IP Configure** to **Static**.
6. **The camera and monitor must have different IP addresses**. Enter an IP address **different from the camera's address but on the same subnet**. For the camera settings above, use:
   - **IP Address: 192.168.1.51**
   - **Subnet Mask: 255.255.255.0**



7. Return to the **Control** tab and confirm that the camera is detected.
8. Enable **Tap to Focus**.



9. Close the menu and tap the camera icon to open camera control.



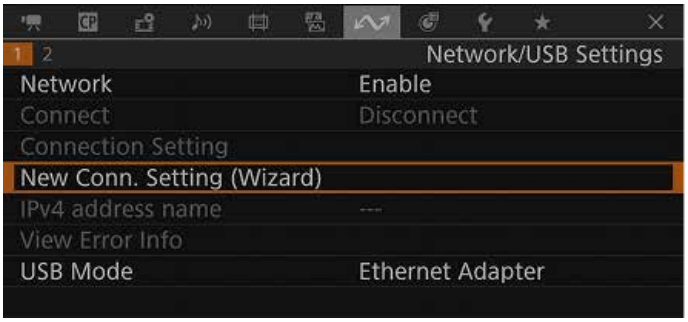
Option 2: Connection through a router

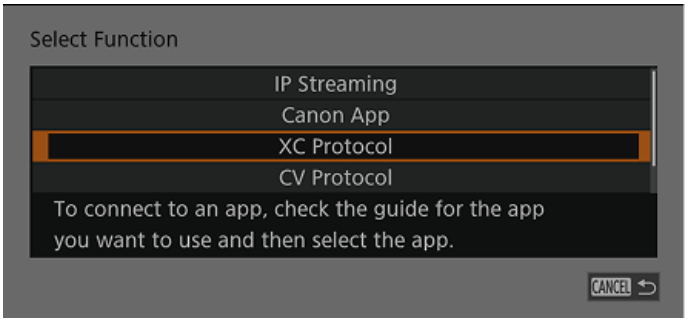
Connect the equipment

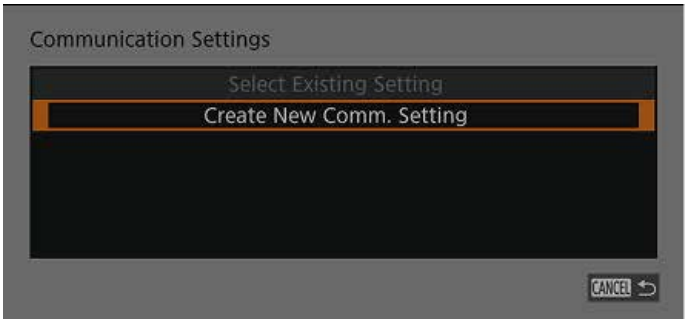
1. Connect the camera's HDMI output to the HDMI input on Shinobi 7 II.
2. Connect the camera and Shinobi 7 II to the same router using separate Ethernet cables.
3. Make sure the router has DHCP enabled and all devices are powered on.

Configure the camera

1. Open the camera's **network settings** and set **Network** to **Enable**.
2. Select **New Conn. Setting (Wizard)**.
3. Select **XC Protocol**.
4. Select **Create New Comm. Setting**.
5. Select **Ethernet**.



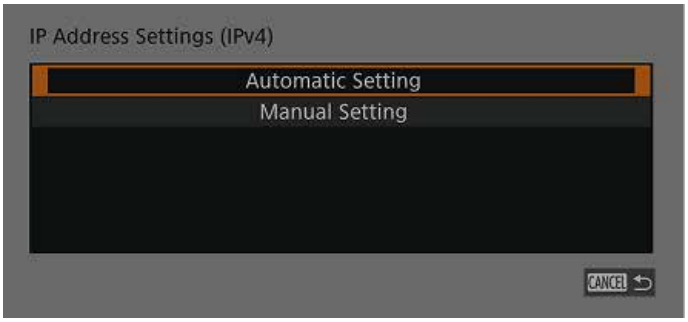




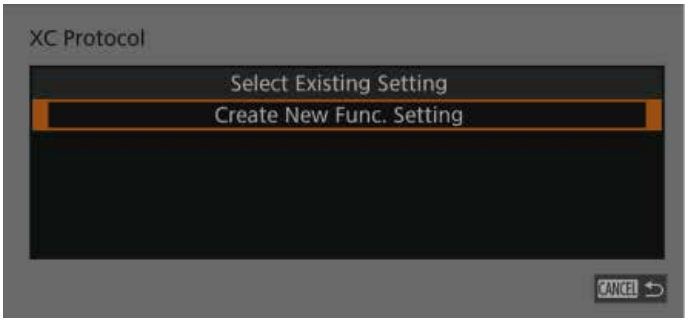


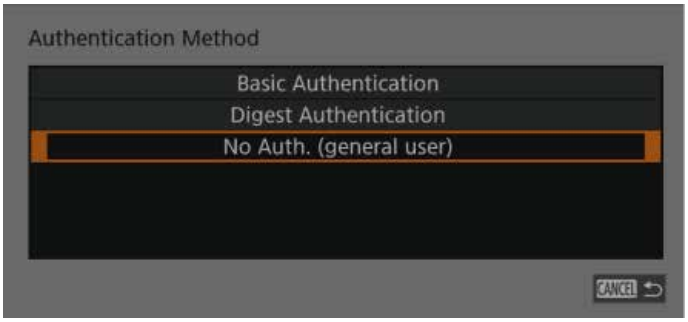
6. Select **Setup with Network Connection**.
7. Under **IP Address Settings (IPv4)**, select A**utomatic Setting** to obtain an address using DHCP.





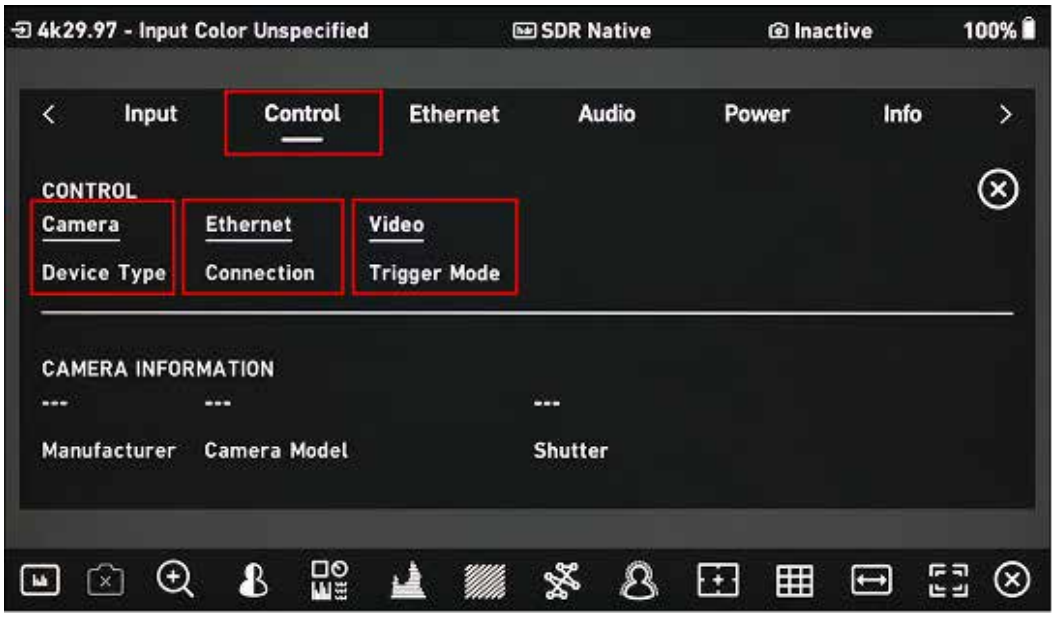
8. Continue through the wizard. When prompted for the **XC Protocol function** settings, select **No Auth. (general user)**.
9. Save the connection settings.



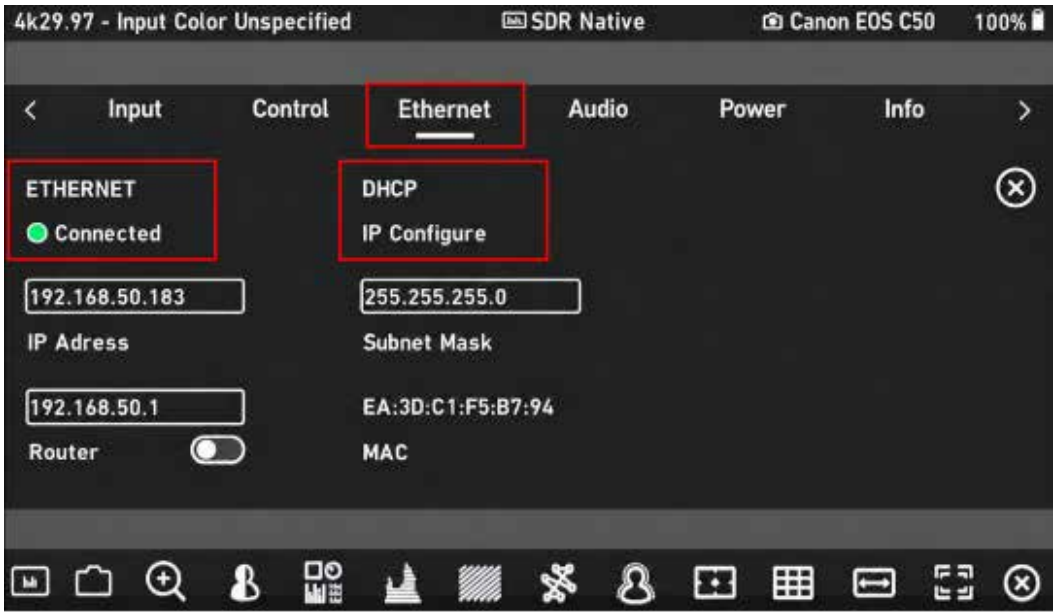


Configure Shinobi 7 II

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3. Set **Connection** to **Ethernet**.
4. Set **Trigger Mode** to **Video**.

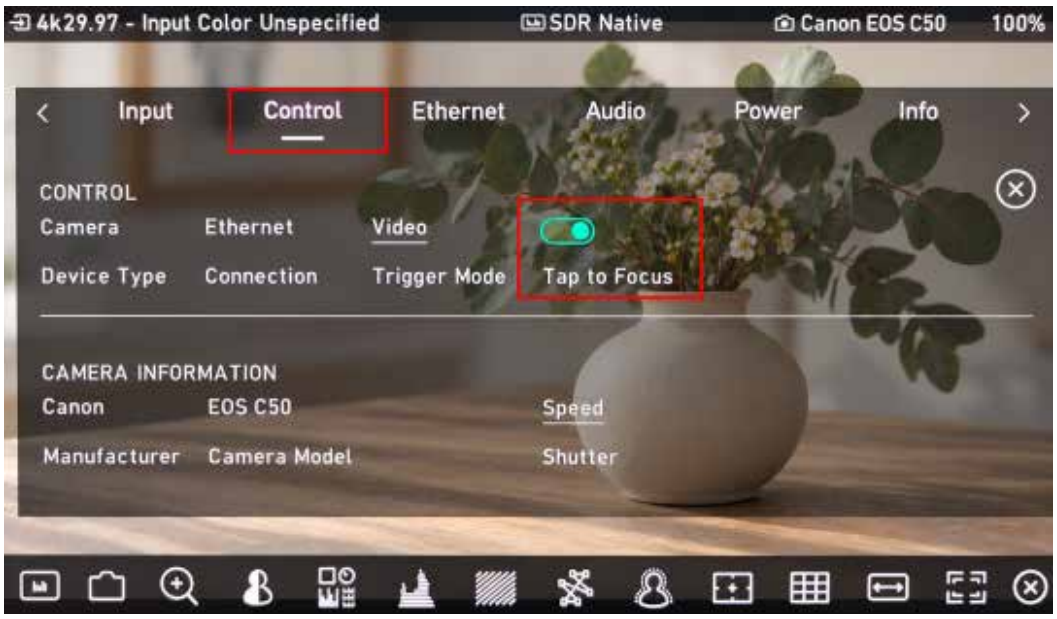


5. Open the **Ethernet** tab and set **IP Configure** to **DHCP**.
6. Check that the monitor's **Ethernet** shows **Connected**.

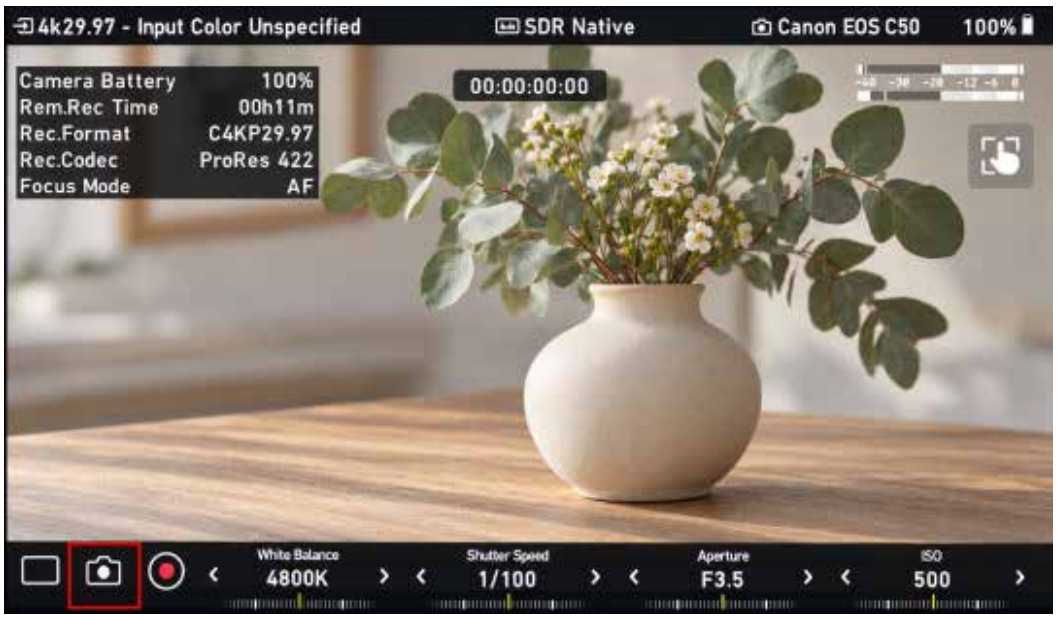


The router assigns the camera and monitor their IP addresses automatically.

7. Return to the **Control** tab and confirm that the camera is detected.
8. Enable **Tap to Focus**.



9. Close the menu and tap the camera icon to open camera control.



TROUBLESHOOTING

Cannot set up connection

If your camera already has an active network connection, disconnect it before changing the connection settings.

1. Select MENU → Network/USB Settings → Network → Enable.
2. Select MENU → Network/USB Settings → Connect → Disconnect.
3. Select MENU → Network/USB Settings → Connection Setting, choose the existing connection setting (SET1–SET20), then select Change with Wizard.
4. Follow the on-screen instructions to configure the connection for Canon XC protocol.