Canon

GUIDE

IP Streaming With EOS C70

EOS C70 IP STREAMING GUIDE (VLC VERSION)

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1. IP Streaming (“VLC” Application) Setup

1-1 Things to Prepare

① Canon EOS C70 (with a 3rd party USB-C Ethernet adapter – sold separately).

② PC (with VLC application installed from www.videolan.org)

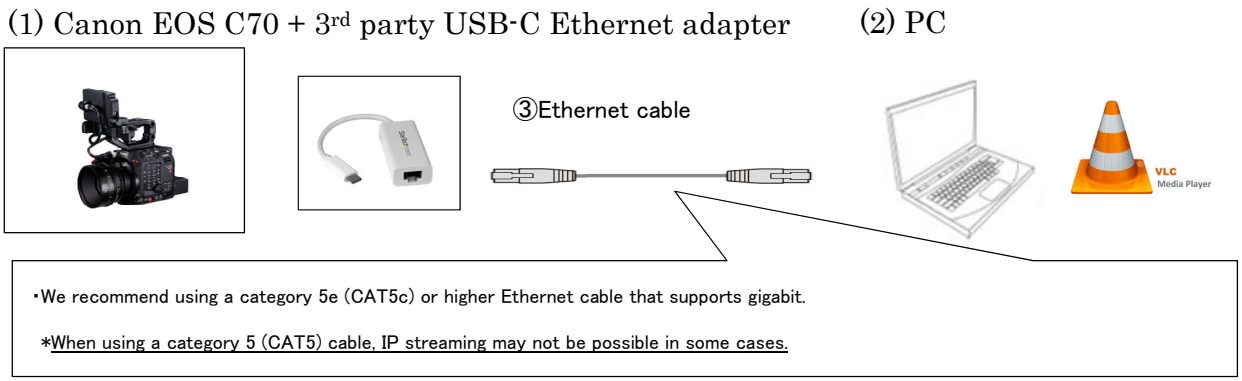
*Operation checks have been performed with VLC Version 3.0.12.

③ Ethernet cable ×1

1-2 Connection Diagram

Assumed connection format: Canon EOS C70 + 3rd party USB-C Ethernet adapter (sold separately) ⇔ Ethernet cable ⇔ PC

Connect (1) Canon EOS C70 + 3rd party USB-C Ethernet Adapter (sold separately) (2) PC with an Ethernet cable.



2. Set the PC’s IP Address in Advance

PC settings:

① Start the PC connected to the network, and go to [Control Panel]

② Select [Network and Internet]

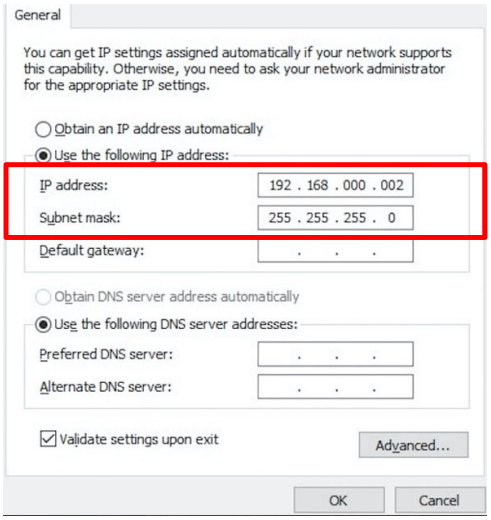
③ Select [Network and Sharing Center]

On the network settings screen, open Properties from the [Local area connection] state.

④ Select Internet protocol 4 (TCP/IPv4)

⑤ Open Properties

Do not select [Obtain an IP address automatically]. Instead, select [Use the following IP address] and set the settings shown below.



・For the IP address, input [192.168.0.xxx]

For example: [192.168.000.002]

・For the subnet mask, input [255.255.255.0]

*Generally, the subnet mask values will be entered automatically once you input the IP address.

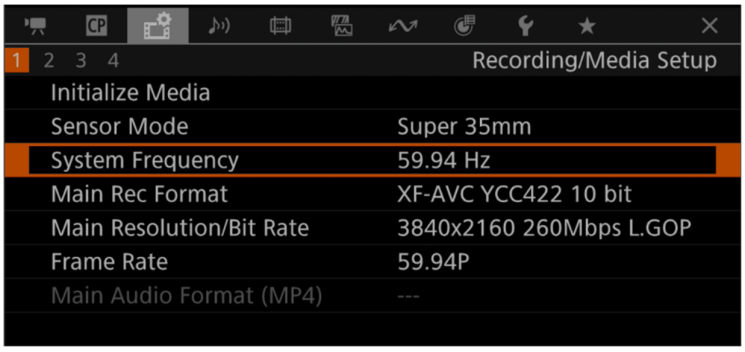
3. Canon EOS C70 Network Settings

3-1 Set Network Connection

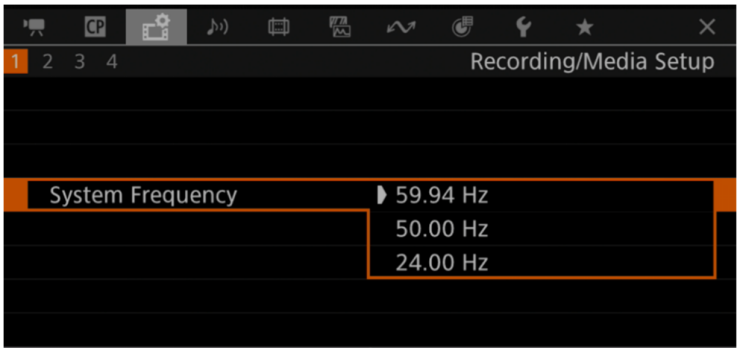
3-1-1 Select System Frequency

① From MENU, go to [Recording/Media Setup] menu

② Select [System Frequency] ⇒ Press SET



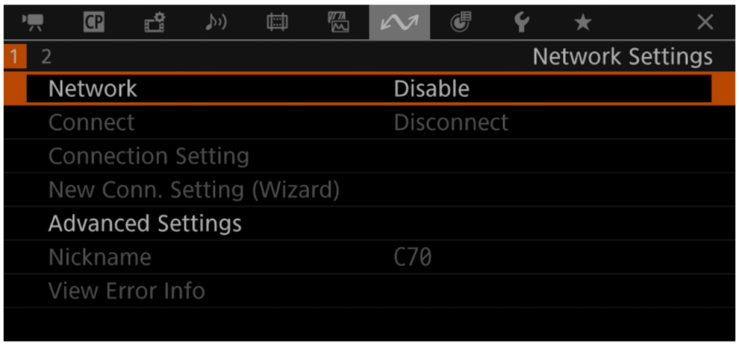
③ Select [59.94 Hz / 50.00 Hz / 24.00 Hz] ⇒ Press SET



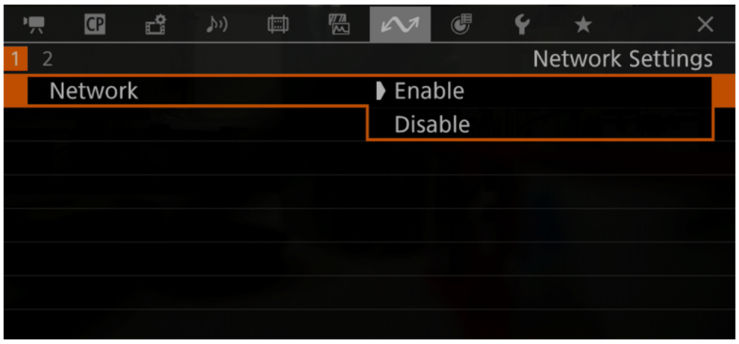
3-1-2 Enable Network

④ From MENU, go to [Network settings menu]

⑤ Select [Network] ⇒ Press SET

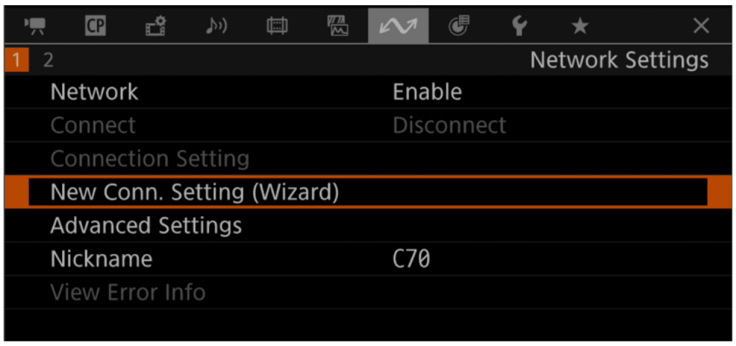


⑥ Select [Enable] ⇒ Press SET

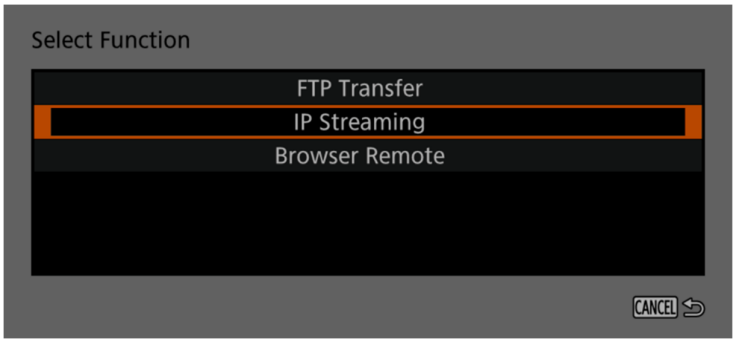


3-1-3 Select New Connection Setting

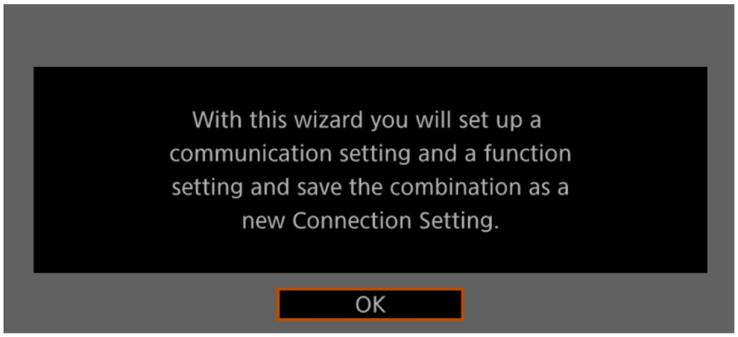
① Select [New Conn. Setting (Wizard)] ⇒ Press SET



② Select [IP Streaming] ⇒ Press SET

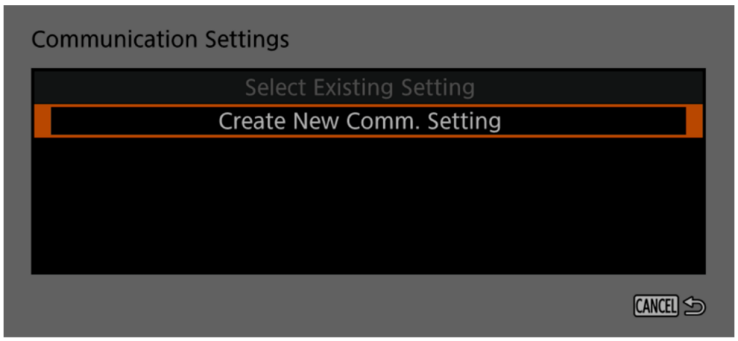


③ Confirm a new Connection Setting ⇒ Press OK



3-1-4 Create New Communication Setting

① Select [Create New Comm. Setting] ⇒ Press SET

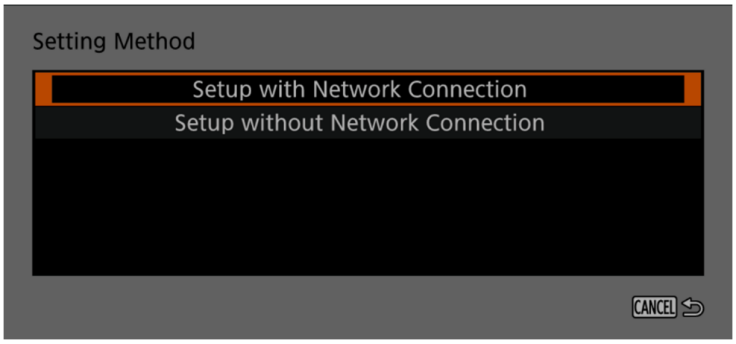


② Select [Ethernet 品] ⇒ Press SET

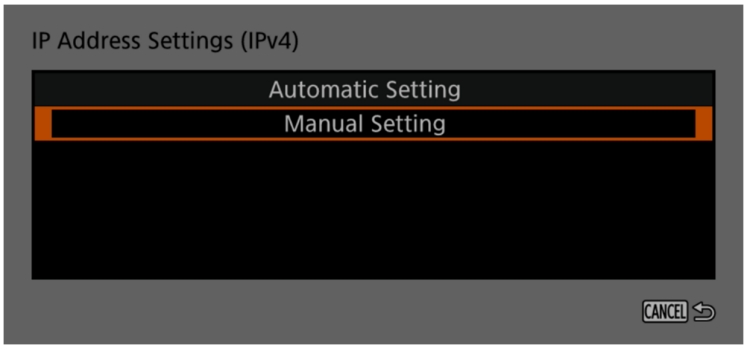
3-1-5 Setup with Network Connection

① Select [Setup with Network Connection]

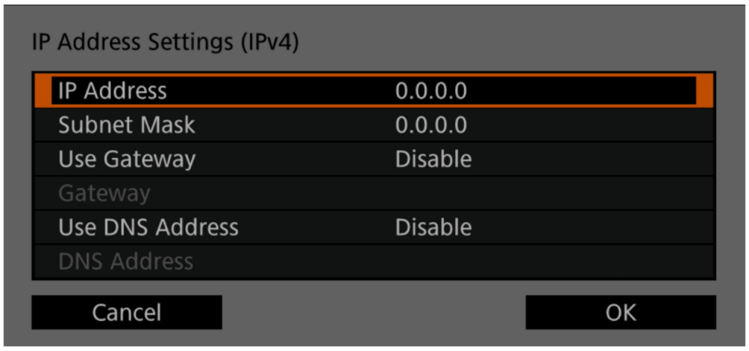
② ⇒ Press SET



③ Under IP Address Settings (IPv4), select [Manual Setting] ⇒ Press SET



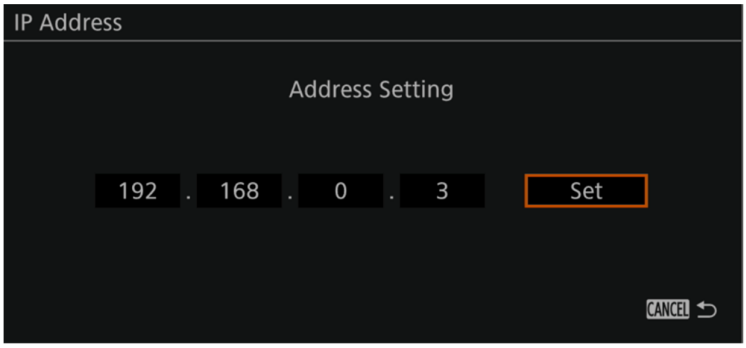
④ Select [IP Address] ⇒ Press SET



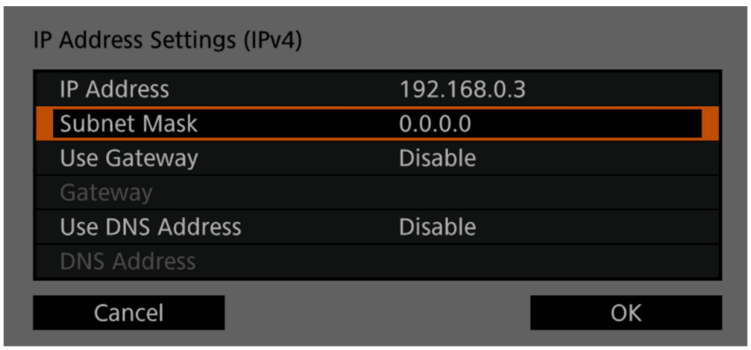
⑤ Input [192.168.0.xxx] as the IP address.

Example: [192.168.0.3] ⇒ Press SET

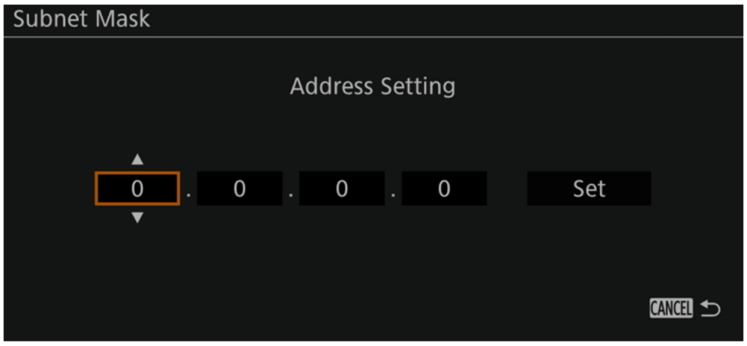
*These values are the address in the C70 itself has. Set the values at the end so that they are not the same as those of the device you are connecting to (the values set on the PC).

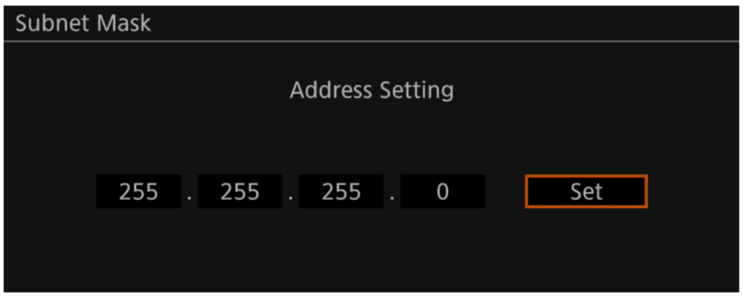


⑥ Select [Subnet Mask] ⇒ Press SET

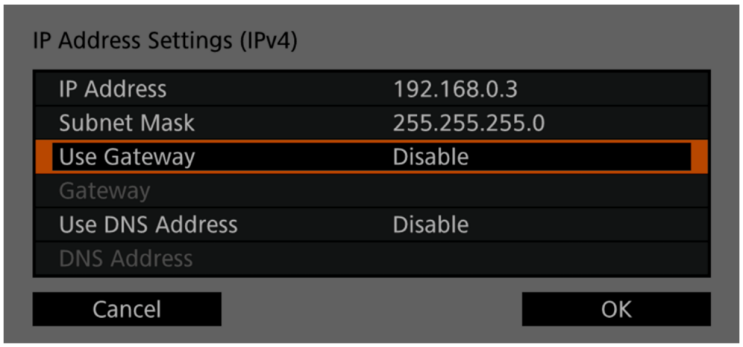


⑦ Input [255.255.255.0] for subnet mask ⇒ Press SET

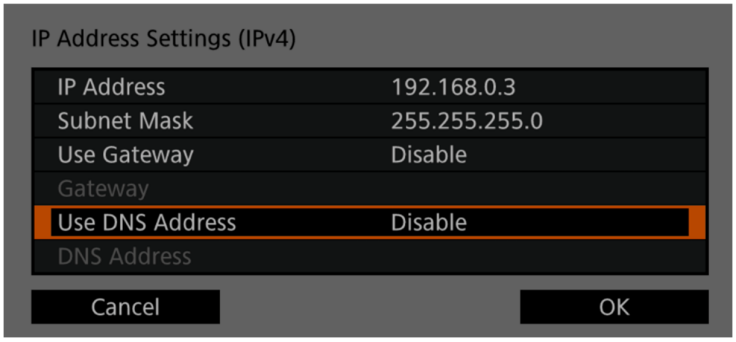




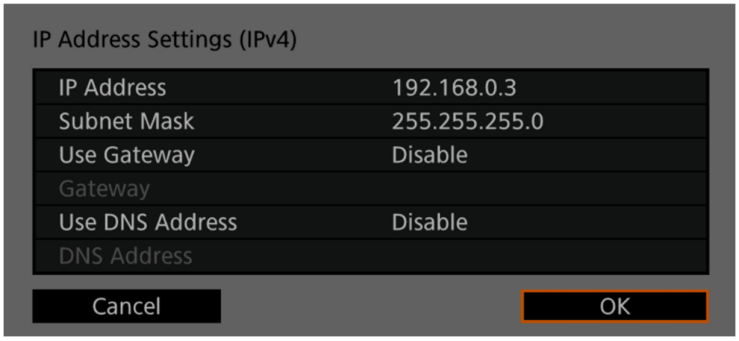
⑧ [Use Gateway] ⇒ Disable



⑨ [DNS Address] ⇒ Disable

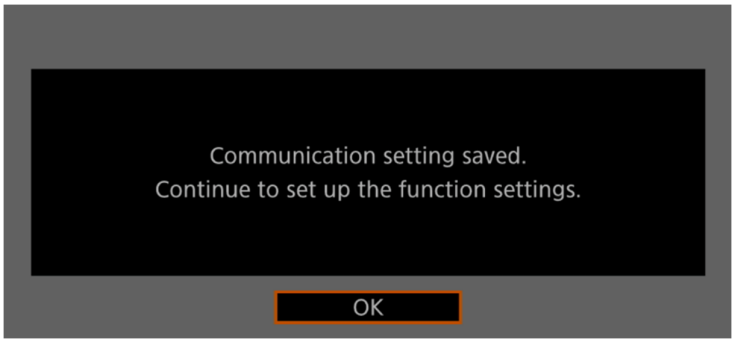


⑩ Save IP Address Setting (IPv4) ⇒ Press OK



⑪ [TCP/IPv6 Settings] is not necessary for the assumed connection format of these materials, so you can select Disable ⇒ Press SET

⑫ Confirm Communication settings ⇒ Press OK

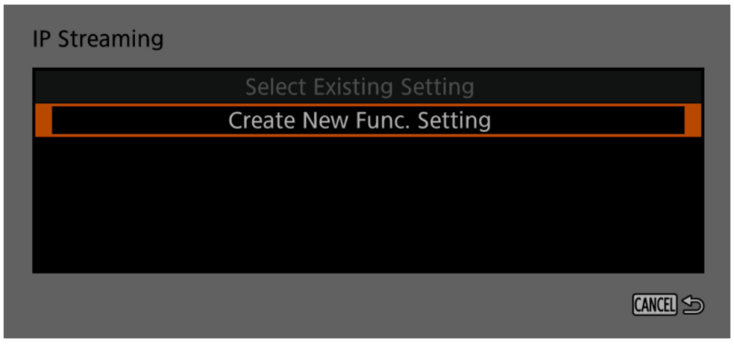


3-2 Prepare for Streaming Transmission

3-2-1 Create New Function Setting

① Select [Create New Func. Setting]

② ⇒ Press SET

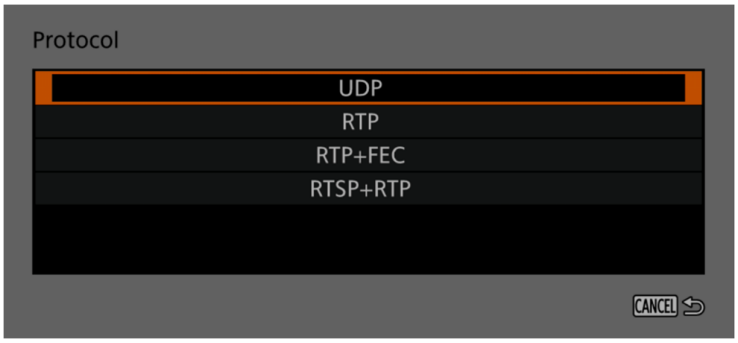


3-2-2 Select Protocol

① Select [UDP] or [RTP] or [RTP+FEC] or [RTSP+RTP]

② ⇒ Press SET

(The [UDP] protocol will be selected for this example).



[UDP]: This protocol prioritizes transfer speeds but does not guarantee the reliability/integrity of the data. Lost or delayed IP packets are ignored.

[RTP]: Standard protocol for video/audio broadcasts over the internet. Lost or delayed IP packets are ignored.

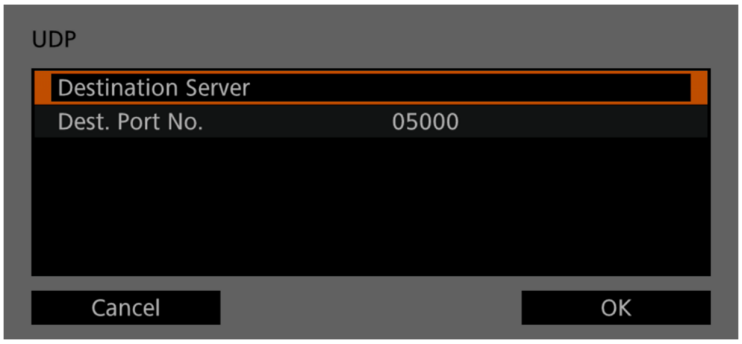
[RTP+FEC]: This setting uses the RTP protocol and adds a layer of FEC error correction so the receiving side* can recover lost or delayed IP packets. This combination is more common for broadcasts over Wi-Fi networks.

[RTSP+RTP]: This setting uses the RTSP (reel time streaming) protocol to control the streaming server 9camera) in real time and the RTP protocol for the broadcast over IP. With the RSTP protocol, the receiver can control when to start and stop the broadcast.

*A decoder or PC software that supports FEC control is required.

3-2-3 Input Destination Server and Destination Port Number

① Select [Destination Server] ⇒ Press SELECT



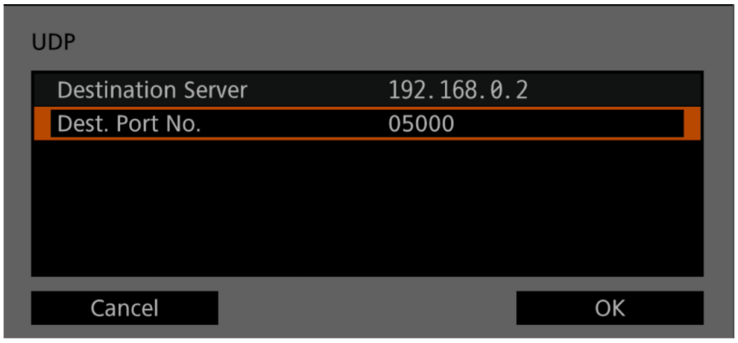
② Input the Destination Server ⇒ Press OK

Input the Destination Server of the device you are connecting to (PC), select [Set], ⇒ Press OK

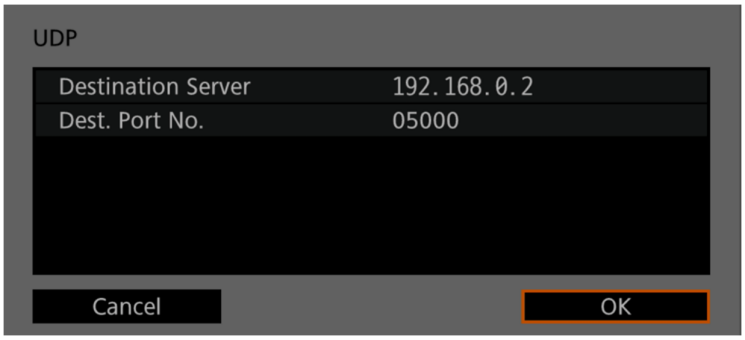
Example: [192.168.0.2] (The PC's IP address set in advance.)

If necessary, input the [Dest. Port No.] in the same way, select [Set], ⇒ Press OK

- Normally, the port number initially set is used (it is normally 5000).



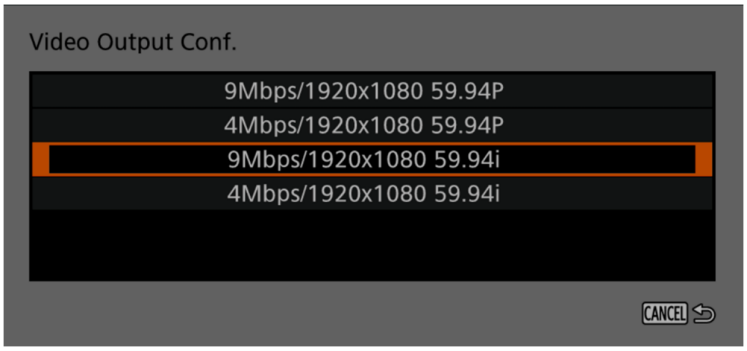
③ Confirm [Destination Server] and [Dest. Port No.] ⇒ Press OK



3-2-4 Select Bit Rate and Resolution

① Select bit rate and resolution. Select any option

② ⇒ Press SET

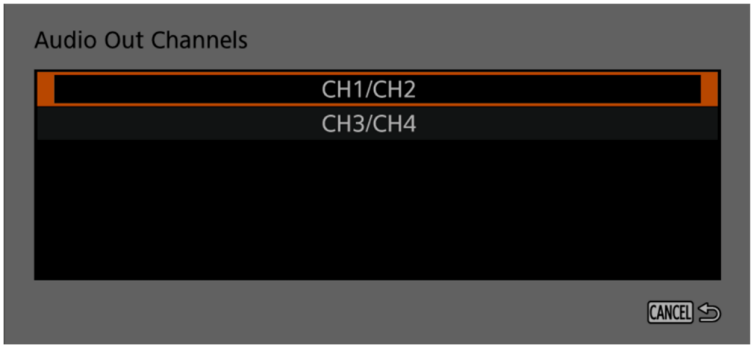


3-2-5 Select Audio Out Channels

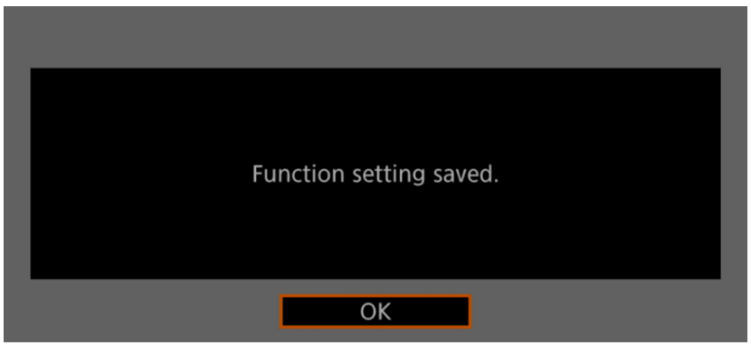
① Select audio output channels [CH1/Ch2], [CH3/Ch4]

② ⇒ Press SET

(*For the audio to record, from MENU [♪)) Audio settings] ⇒ [Select CH1/CH2 Input] and [Select CH3/CH4 Input], you can select any of [INPUT terminal / MIC terminal / Internal mic.])



③ Save Function Settings ⇒ Press OK



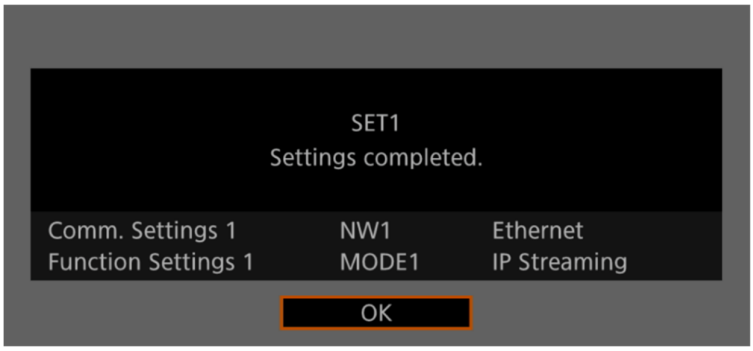
3-2-6 Connection Setting Save Destination

① Select [Conn. Setting]

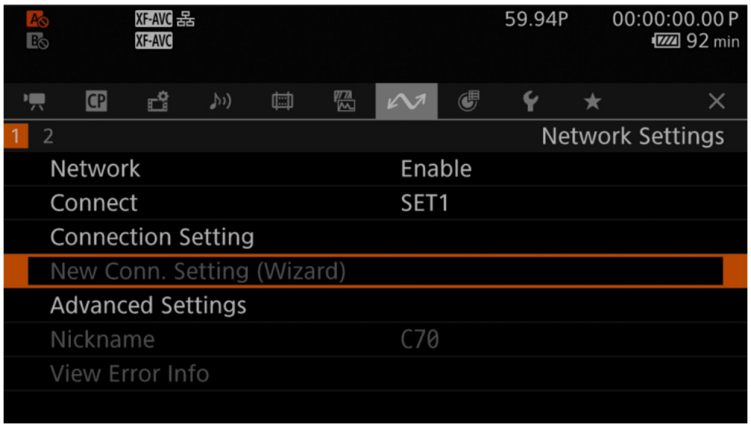
② ⇒ Press SET

・Twenty (20) connection settings (SET) that can be registered. Push the joystick up and down to scroll down the screen.

③ Setting completed ⇒ Press OK



④ Now, you will notice the [品] Ethernet icon on top of the screen. This icon indicates that the ethernet connection on the camera is now active.

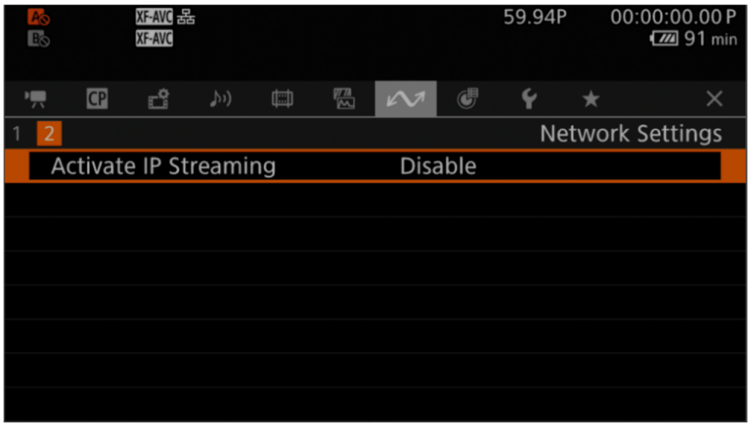


4. Streaming Transmission

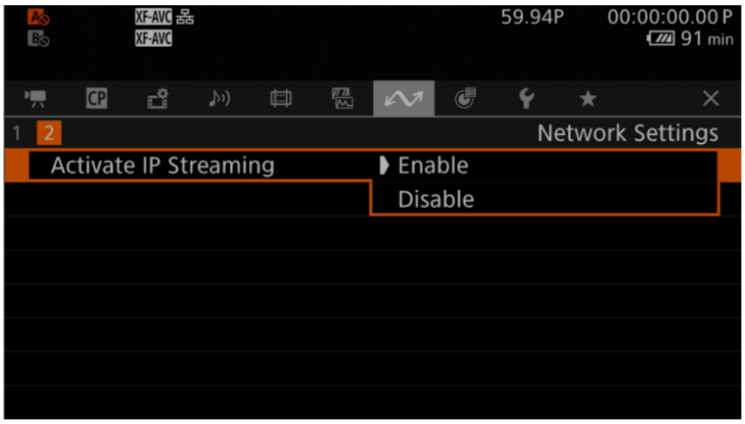
Canon EOS C70:

4-1 Activate IP Streaming in the EOS C70

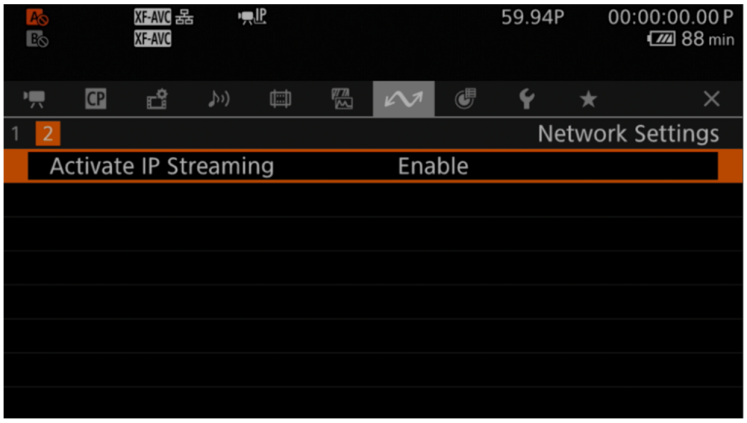
① Go to Sub Menu 2 under Network Settings Menu



② Select Enable ⇒ Press SET



③ Now, [IP] IP streaming is activated.



- The C70 will show a [IP] icon showing the connection method.
- On the screen, the [IP] icon will be shown in white and video/audio streaming transmission will start.
- When [Off] is selected for [Network Functions], transmission will terminate, and the [IP] icon will disappear.

PC:

4-2 Perform VLC settings on the PC

① Open the VLC Media Player

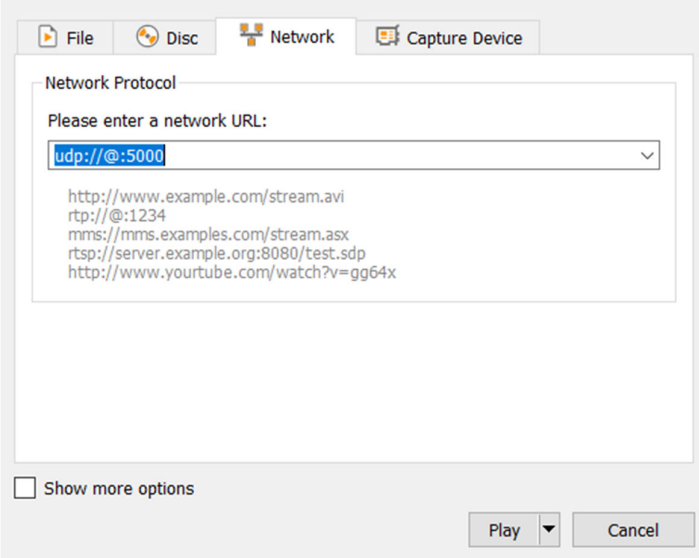
② Select [Media]

③ Select [Open Network Stream]

⇒ In the [Please enter a network URL] cell, input the network URL that matches the protocol that was selected under the protocol settings earlier (under 3-2-2 in the guide).

For this example, input【udp://@:5000】and click [Play (P)▼].

⇒ If successful, the images will appear on the screen.



*Notes:

・Recording to the SD card during IP streaming is not possible.

・The specification is for the IP streaming function to remain engaged, and not be turned off when a media mode is switched or the camcorder power is turned off, and for IP streaming to start (restart) when the camera recovers, or the camera's power is turned back on.