



ANTRICA

encoders | decoders

Product Quick Start ANT-1770S



**HD-SDI and CVBS
Encoder**



ANT-1770S



July 2026



V1.1



www.antrica.com/downloads

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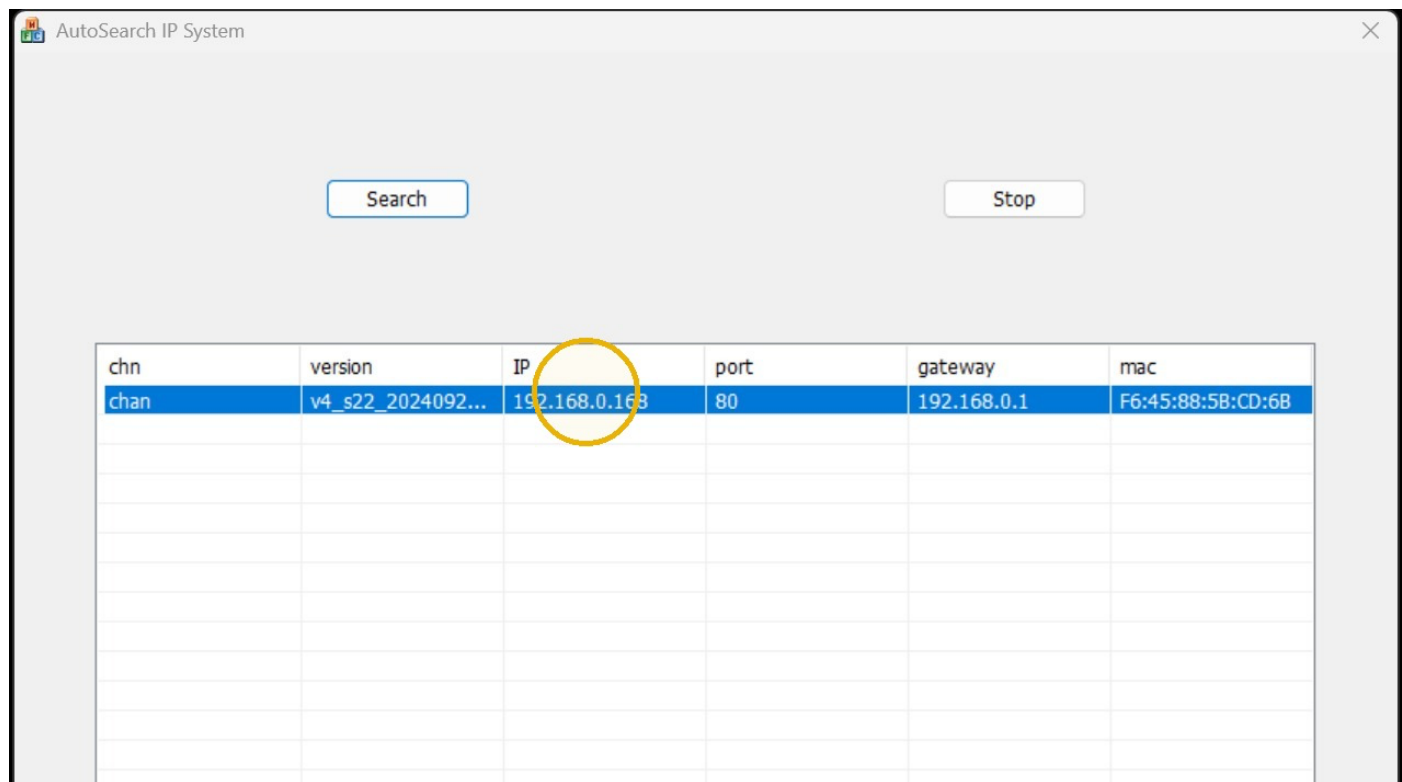
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Revision Control

Date	Version	Reason	Created By
11 th July 2026	V1.0	Quick start first draft	Leslie Litwin

Setting up the ANT-1770S

1. This user manual describes the ANT 1770S. We are using the auto search IP system search tool to find the IP address of the encoder. In this particular example. We have changed the IP address to be 192.168.0.168. However the default IP address of the encoder is **192.168.1.168**. And the username and password is **admin admin**. Once we have found. Double click the line showing your encoder to open up a web page interface .
2. Alternatively use a browser and go to 192.168.1.168 directly admin admin .



Configuring Video and Streaming Protocol Settings on Your Encoder

The Home page

This section describes basic setup of the encoder , video interfaces and stream settings plus other items like OSD and Network.

The defaults for this encoder are

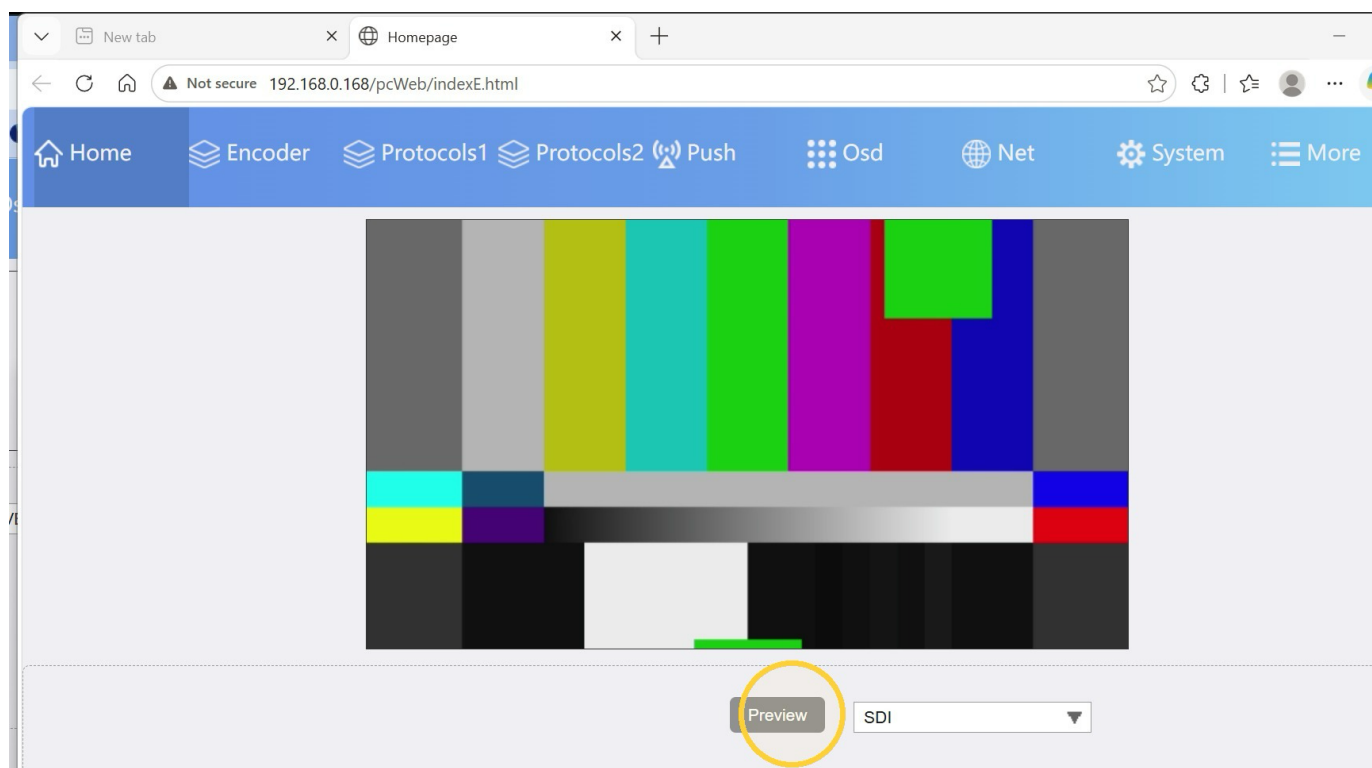
192.168.1.168

user: admin

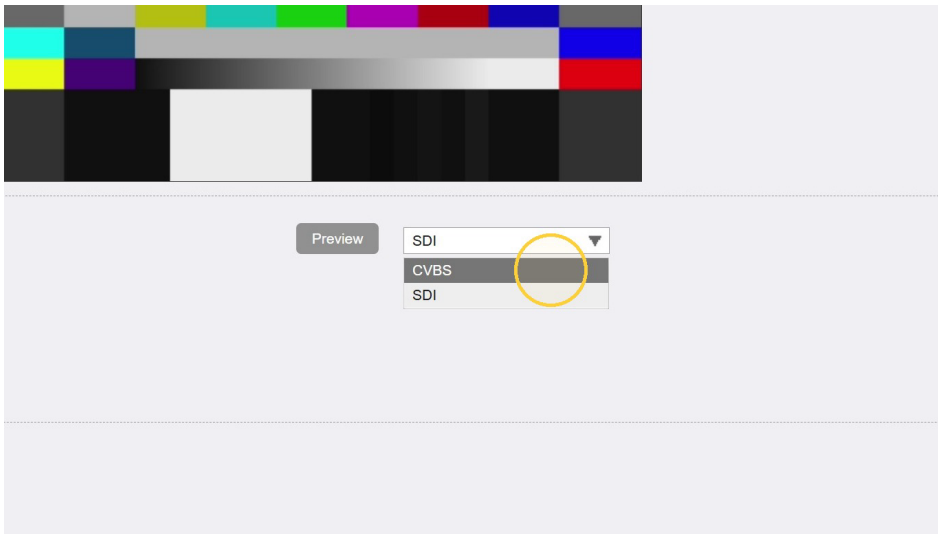
pass: admin

The example shows **192.168.0.168** which is not default

3. This is the homepage of the ANT 1770S. Here you can see a preview window which will show you the video from either the HD SDI input or the composite video CVBS input. You can select SDI or CVBS from the pull down then click preview to make sure video is connected

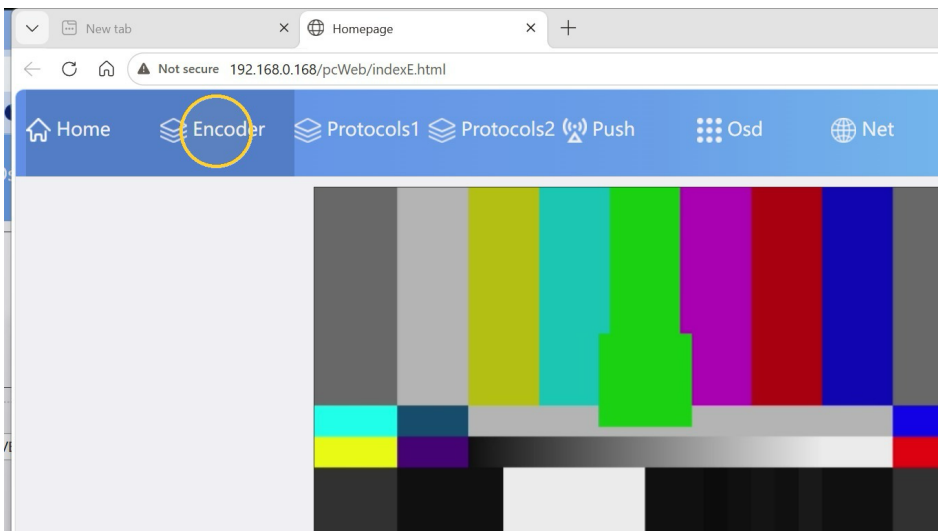


4. Preview button. And also selecting.



Encoder Settings Tab

5. Selecting the encoder settings for the two video sources HD-SDI or CVBS. Click on ENCODER



Encoder Settings

6. In ENCODER settings you have 4 settings two for each video source SDI and CVBS

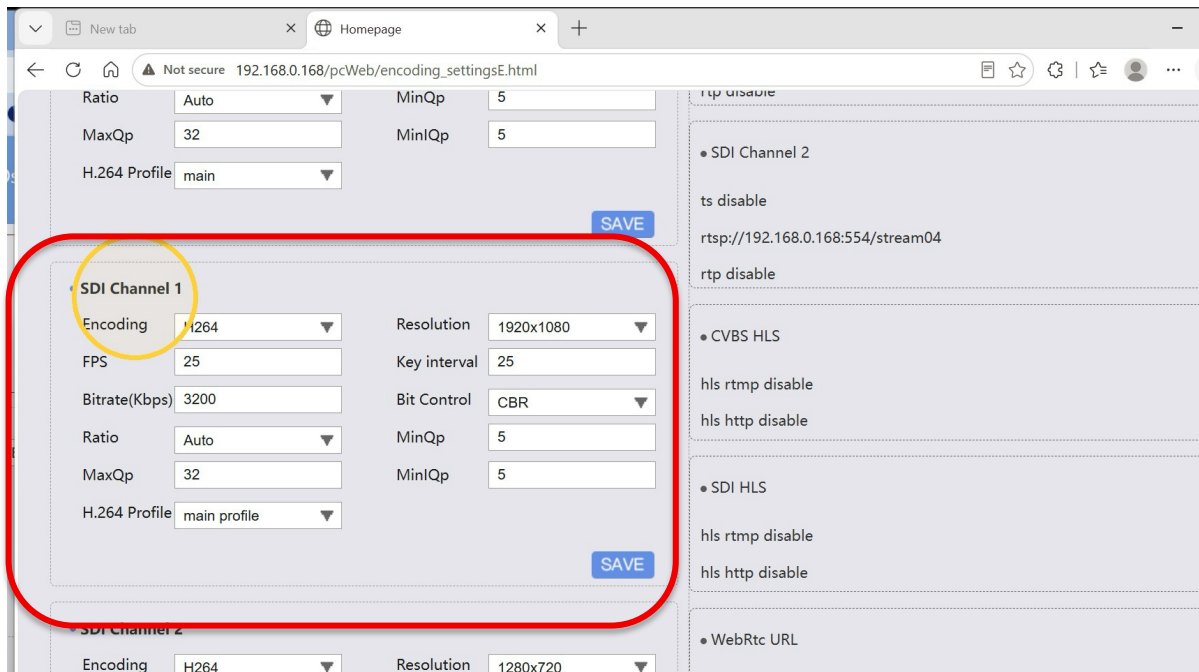
NOTE: Channel1 = Stream 1 . You can select the resolution of the stream, frame rate, codec, bit rate control and so on . These can be different for CVBS or SDI CH1 and CH2 effectively giving you two streams per video input

The screenshot displays the 'Encoder Settings' interface. On the left, there are two main sections: 'CVBS Channel 1' and 'CVBS Channel 2'. Each section contains a grid of settings including Mode, Resolution, Key interval, Bit Control, MinQp, MaxQp, Encoding, FPS, Bitrate(Kbps), Ratio, and H.264 Profile. A yellow circle highlights the 'CVBS Channel 1' header. To the right of these settings is a summary panel for each channel, showing the selected encoding (H264), resolution (720x576 for CH1, 320x180 for CH2), FPS (25), and bitrate (3200 Kbps). The summary panel also lists the stream URLs and disables RTSP and RTP for each channel. A 'SAVE' button is located at the bottom of the CVBS Channel 1 settings.

7. Also in this section you can choose NTSC or PAL Here you can also select the codec, either H.264 or H.265.

This screenshot shows the 'Encoder Settings' interface from a web browser. The browser's address bar shows the URL '192.168.0.168/pcWeb/encoding_settingsE.html'. The interface has a blue header with navigation tabs: Encoder, Protocols1, Protocols2, Push, Osd, Net, and System. The 'Encoder' tab is active. The 'CVBS Channel 1' settings are visible, with a yellow circle highlighting the 'Encoding' dropdown menu, which is currently set to 'H264'. Other settings for CVBS Channel 1 include Mode (NTSC), Resolution (720x576), FPS (25), Bitrate (3200 Kbps), Ratio (Auto), and H.264 Profile (main profile). The summary panel on the right shows the stream URL 'http://192.168.0.168:80/stream01' and disables RTSP and RTP. A 'SAVE' button is at the bottom of the settings panel.

8. The SDI section is exactly the same as CVBS



9. On the right side of the page. You are given a preview of the settings that are currently enabled. Here you can see CVBS channel 1 has HTTP as the stream format enable and RTSP and RTP are disabled. And so on for all the other channels. to change the stream format settings we need to go to PROTOCOLS which is the next tab.



Protocols Section

10. In the Protocols section you can change the stream formats http RTSP NDI and so on enabling or disabling each format with the slider to show ON or OFF

• HTTP1 ☒ ON

HTTP Port

Stream Name

• Unicast 1 ☐ OFF

IP

Port

• Multicast 1 ☐ OFF

IP

Port

• HTTP 2 ☐ OFF

Stream Name

• Unicast 2 ☐ OFF

IP

Port

• Multicast 2 ☐ OFF

IP

Port

• NDI1 ☐ OFF

Stream Name

• NDI2 ☐ OFF

Stream Name

• RTP 1 ☐ OFF

• RTP2 ☐ OFF

11. PROTOCOLS 1 tab refers to CVBS input and PROTOCOLS 2 refers to SDI video input.
In protocols 1 we can set up the main and sub stream settings for CVBS also referred to as channel 1 and channel 2

← ↻ 🔍 Not secure 192.168.0.168/pcWeb/encoding_settings1E.html

Home Encoder **Protocols1** Protocols2 Push Osd Net System More

• HTTP1 ☒ ON

HTTP Port

Stream Name

• Unicast 1 ☐ OFF

IP

Port

• Multicast 1 ☐ OFF

IP

Port

• HTTP 2 ☐ OFF

Stream Name

• Unicast 2 ☐ OFF

IP

Port

• Multicast 2 ☐ OFF

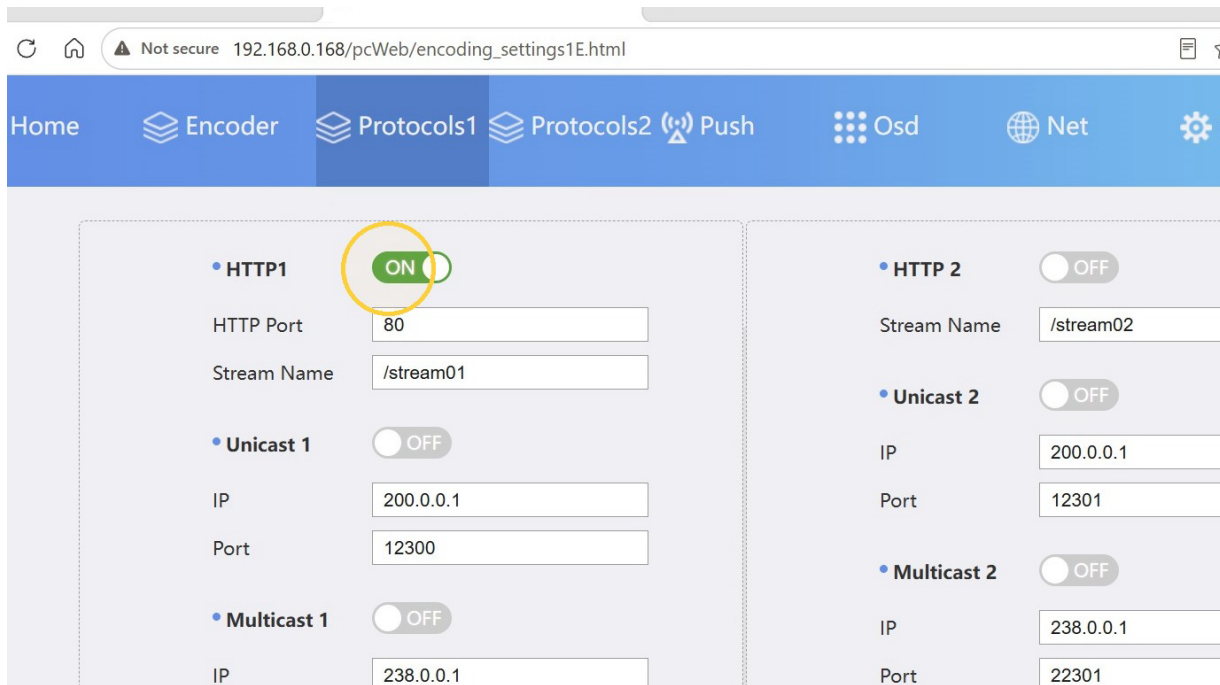
IP

Port

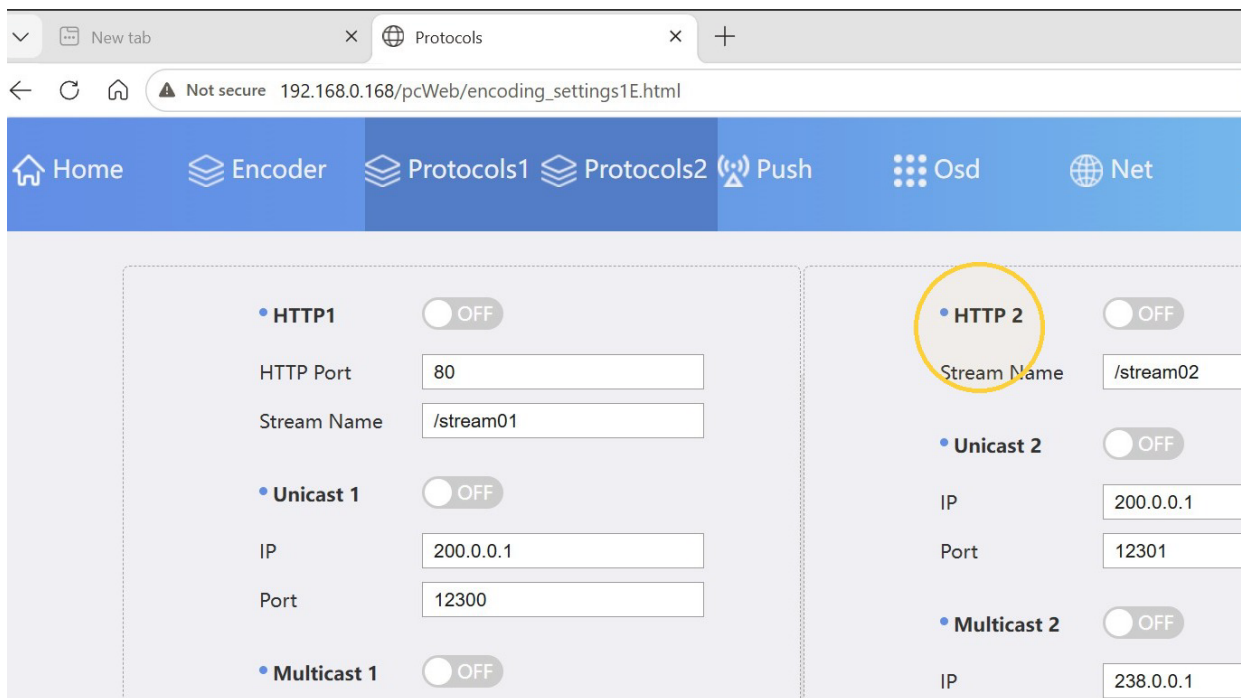
• NDI1 ☐ OFF

• NDI2 ☐ OFF

12. You can Disable HTTP and enable other streaming formats like RTSP



13. You can also do this for the second stream of the composite video input . If we go to protocols 2 these are the settings for the SDI input



Protocols 2 Section

14. The HDSDI interface stream settings are exactly the same as CVBS in protocols 1 but reside in the Protocols 2 section

The screenshot shows a web browser window with the URL `192.168.0.168/pcWeb/encoding_settings2E.html`. The navigation bar at the top includes links for Home, Encoder, Protocols1, Protocols2 (highlighted with a yellow circle), Push, Osd, and Net. The main content area is divided into two columns. The left column contains settings for HTTP1, Unicast 1, and Multicast 1. The right column contains settings for HTTP2, Unicast 2, and Multicast 2. All toggle switches are currently set to OFF.

Section	Setting	Value
HTTP1	HTTP Port	80
	Stream Name	/stream03
	Unicast 1	OFF
Unicast 1	IP	200.0.0.1
	Port	12302
	Multicast 1	OFF
HTTP2	Stream Name	/stream04
	Unicast 2	OFF
	IP	200.0.0.1
Unicast 2	Port	12303
	Multicast 2	OFF
Multicast 2	IP	238.0.0.1

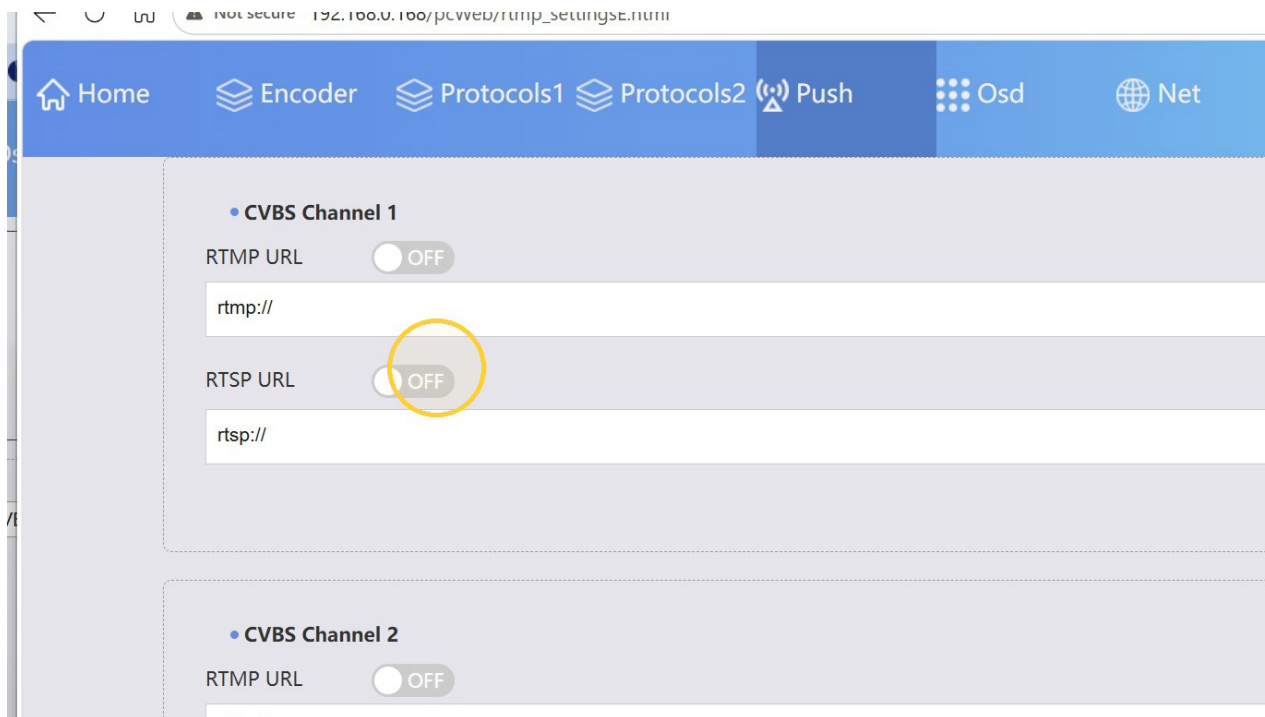
PUSH section RTMP streaming

15. If you click on the PUSH you have the options of using RTMP.

The screenshot shows the same web browser window, but the 'Push' link in the navigation bar is now highlighted with a yellow circle. The main content area displays the same settings as the Protocols2 section, but with additional options for RTMP streaming. The settings are organized into two columns, with the left column for HTTP1, Unicast 1, and Multicast 1, and the right column for HTTP2, Unicast 2, and Multicast 2. All toggle switches are currently set to OFF.

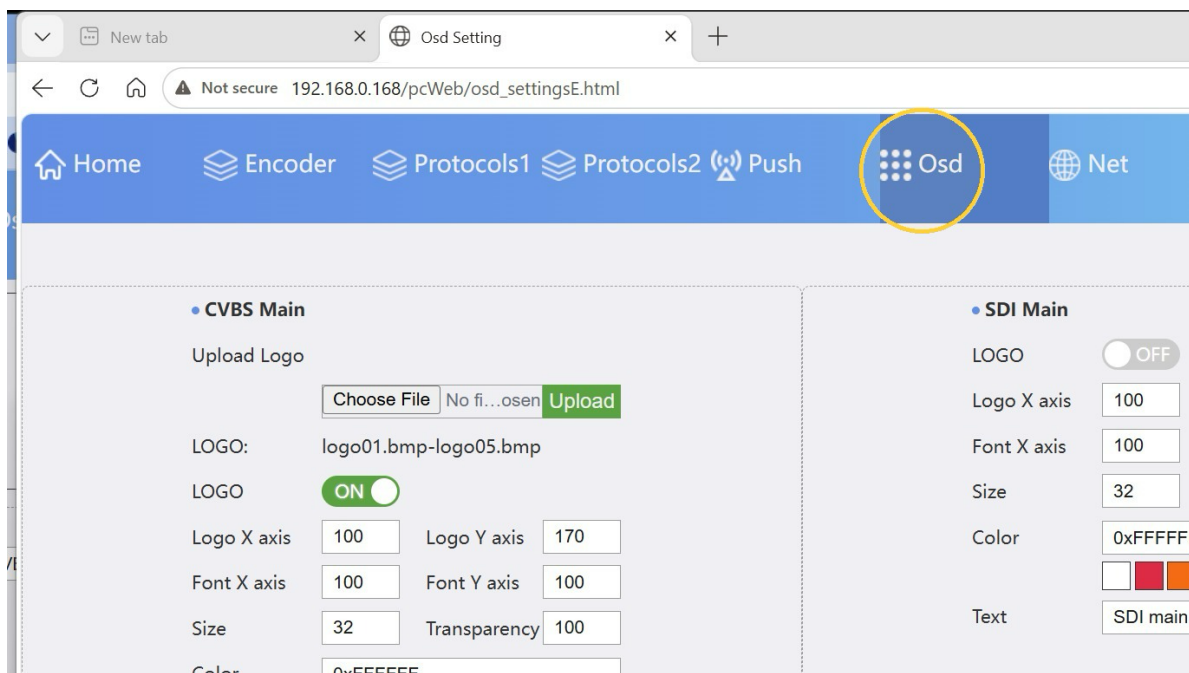
Section	Setting	Value
HTTP1	HTTP Port	80
	Stream Name	/stream03
	Unicast 1	OFF
Unicast 1	IP	200.0.0.1
	Port	12302
	Multicast 1	OFF
HTTP2	Stream Name	/stream04
	Unicast 2	OFF
	IP	200.0.0.1
Unicast 2	Port	12303
	Multicast 2	OFF
Multicast 2	IP	238.0.0.1

16. Here you can enable RTMP as used for uploading to Youtube etc .



OSD menu for on screen display

17. If you now go to the OSD menu



18. The on-screen display and logo (that you can upload as a .bmp) to be displayed on each of the stream settings. Here you can select the colour of the font and position on screen . The text to be displayed is added in the TEXT section. Please name logo files as follows upload them one by one: Logo01.bmp CVBS main logo02.bmp CVBS Sub logo03.bmp SDI main and logo04.bmp for SDI sub.

The screenshot shows the OSD settings interface. The top section is for 'CVBS Sub' and the bottom section is for 'SDI Sub'. Both sections have a 'LOGO' toggle switch (OFF), 'Logo X axis' (100), 'Logo Y axis' (170), 'Font X axis' (100), 'Font Y axis' (100), 'Size' (32), 'Transparency' (100), 'Color' (0xFFFFFFFF), and a 'Text' input field. The 'Text' field for CVBS Sub contains 'cvbs main' and is circled in yellow. A 'Save' button is located between the two sections.

The NETWORK settings tab (NET)

19. Net is the Network settings tab

The screenshot shows the 'Web/osd_settingsE.html' page in a web browser. The 'Net' tab is selected and circled in yellow. The 'SDI Main' section is visible, showing the same settings as the previous screenshot, but with the 'Text' field containing 'SDI main'. The 'Upload' button is highlighted in green.

20. And here you can set up your network to DHCP or fixed IP and enable WebRTC

← ↻ 🏠 ⚠ Not secure 192.168.0.168/pcWeb/network_settingsE.html

Home Encoder Protocols1 Protocols2 Push Osd **Net**

• LAN

IP	192.168.0.168
Subnet mask	255.255.255.0
Gateway	192.168.0.1
DNS1	223.5.5.5
DNS2	114.114.114.114
DHCP	☐ OFF
WebRtc	☐ OFF
WebRtc Area	Asia ▼

System Settings Tab

21. System Settings: You can set up an automatic reboot in minutes, upgrade firmware and reboot the device.

⌵ New tab x System x +

← ↻ 🏠 ⚠ Not secure 192.168.0.168/pcWeb/system_settingsE.html

Home Encoder Protocols1 Protocols2 Push Osd Net **System** More

• System Setting

Timing Reboot: 0

Save

• System

Upgrade

Choose File No file chosen Update

FW version v4_s22_20240923_SDI_CVBS_WR_release

Reset Reboot

MORE section

22. Click here to access more settings

The screenshot shows the 'MORE' section of a web interface. The top navigation bar includes links for Protocols1, Protocols2, Push, Osd, Net, System, and More (highlighted with a yellow circle). Below the navigation bar, the 'WebRTC' section is visible, with a dropdown menu set to 'SDI' and a 'Save' button. To the right, the 'Record' section contains several settings: Record (Disable), SD Format (FAT-32), Mode (no-cycle record), Timing (30 minutes), Space (0 M), and Percent (0.0 %).

23. In the more section. You can setup the NTP server and show the time on the display using the OSD settings . Enable web RTC for the various video inputs. And also in this section there is a record section which allows you to record video to a local USB drive.

This screenshot provides a detailed view of the 'MORE' section. The 'WebRTC' section on the left has a dropdown set to 'SDI' and a 'Save' button. Below it, the 'Time Setting' section (highlighted with a yellow circle) includes fields for NTP Server, Time Zone (UTC -12:00), CVBS Time (OFF), X and Y coordinates, Size (8-72), Color (0xFFFFFF), and SDI Time (OFF). To the right, the 'Record' section shows settings for Record (Disable), SD Format (FAT-32), Mode (no-cycle record), Timing (30 minutes), Space (0 M), and Percent (0.0 %), along with 'Download' and 'Format' buttons. At the bottom right, the 'GB28181' section is visible with settings for GB28181 (OFF), Audio (OFF), Video Chn (CVBS), Server Ip (192.168.0.45), and Server Port (5060).

