## How to live stream directly from the AViPAS cameras via RTMP(S) (AV-2020/2010/2000 Series)

Connect the camera with your computer **directly** via an Ethernet cable.

On the bottom-right corner of your desktop, click on the Network icon, then click on the name of the currently-connected network name. Click on "Properties".



In the "Settings" window, find 1. router's IP address. In this case, IPv4: 10.1.10.151, and will be referred to as IP1; 2. DNS servers: 75.75.75.75; 75.75.76.76(note as Alternative). Take notes of IP1 and DNS.

← Settings		—	×
ଇ CBCI-A25A 	x-2.4		
Properties			
SSID:	CBCI-A25A-2.4		
Protocol:	802.11n		
Security type:	WPA2-Personal		
Network band:	2.4 GHz		
Network channel:			
IPv6 address:	2603:3024:181c:9400::a2e3 2603:3024:181c:9400:8525:8f5a:ef8d:4d0		
IPv6 DNS servers:	2001:558:feed::1 2001:558:feed::2		
IPv4 address:	10.1.10.151		1
IPv4 DNS servers:	75.75.75.75 75.75.76.76		
Manufacturer:	Intel Corporation		
Description:	Intel(R) Dual Band Wireless-AC 3168		
Driver version:	19.51.9.1		
Physical address (MAC):	30-E3-7A-9F-27-25		
Сору			

On the bottom-right corner of your desktop, right click on the Network icon, then click on the "Open Network and Sharing Center".



Click on "Ethernet2" -> "Properties" -> double click on "Internet Protocol Version 4(TCP/IPv4)".



Ethernet 2 Status	× Ethernet 2 Properties
eneral	Networking Sharing
Connection IPv4 Connectivity: No network access IPv6 Connectivity: No network access Media State: Enabled Duration: 00:06:27 Speed: 100.0 Mbps Details	Connect using: Realtek PCIe FE Family Controller #2 This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver
Activity Sent Received	Internet Protocol Version 6 (TCP/IPv6)     Install     Uninstall     Properties
Bytes:     286,037     173,307,901       Properties     Diagnose	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Close	OK Cancel

Choose "Use the following IP address", change computer "IP address" (referred to as IP2) to be consistent with the camera IP address (referred to as IP3). For example, AV-2020 default IP address (IP3): <u>192.168.1.</u>188, thus the user can change the computer IP address (IP2) to <u>192.168.1.</u>100. Make sure the first 3 sections are the same. Subnet mask: 255.255.255.0, default gateway: <u>192.168.1</u>.1. Click on "OK". In the warning window, click on "Yes".

Internet Protocol Version 4 (TCP/IPv4	) Properties	$\times$	
General			
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.	matically if your network supports o ask your network administrator		Microsoft TCP/IP ×
ODtain an IP address automatica     ODtain an IP address automatica     ODtain an IP address:     IP address:     Subnet mask:     Default actemany	192 . 168 . 1 . 100 255 . 255 . 255 . 0		Warning - Multiple default gateways are intended to provide redundancy to a single network (such as an intranet or the Internet). They will not function properly when the gateways are on two separate, disjoint networks (such as one on your intranet and one on the Internet). Do you want to save this configuration?
Default gateway:			<u>Y</u> es <u>No</u>
Use the following DNS server address auto	dresses:	.   "	
Preferred DNS server:	· · ·		
<u>A</u> lternate DNS server:			
Validate settings upon exit	Ad <u>v</u> anced		
	OK Cancel	I	

## Access camera via IP (router)

Open Chrome or IE browser, put 192.168.1.188 in the address bar, log in with **user name: admin**, **password: admin**. Go to "Settings" -> "Ethernet".

Change the camera's default IP and DNS so that they're consistent with router's settings. For IP address, make sure the first 3 sections are the same as IP1. On Page 1 of this instruction, we noted IP1 is <u>10.1.10.</u>151, thus here we change the "IP Address" (IP3) to <u>10.1.10.</u>110. Netmask: 255.255.255.0, Gateway: 10.1.10.1, <u>DNS: 75.75.75.75</u>. Click "Save" to save the settings.

Camera Control			Preview	Setting	s 🕒	Logout
Video Configuration	Ethernet					
Video Encode	DHCP					
Video Transmission	IP Address	10.1.10.110				
I Audio Setting	Netmask	255.255.255.0				
Image Adjust	Gateway	10.1.10.1				
Network Configuration	DNS	75.75.75.75				
Ethernet	HTTP Port	80				
Firmware Upgrade	RTSP Port	554		Cauc		
T Reset Options				Save		
Account						

At this point, you may disconnect the camera from your laptop and connect the it to your router. Access it (via Wi-Fi or wiring to your router) using the new IP: 10.1.10.110. Make sure you can access the camera's web interface before proceeding.

## **RTMP** settings

Here we use YouTube Live as an example. Other streaming platforms could also be applied.

Login to your account, click "Create". Choose the "Go Live".



Choose "Stream" then go to "Stream Settings" section, in which it contains "Stream URL" ad "Stream key". Copy stream URL.

≡	▶ Studio	STREAM SETTINGS ANALYTICS STREAM HEALTH	
((∞))		Select stream key Default stream key (Variable)	
0 1	Connect streaming software to go live	Stream key (paste in encoder)  RESET	СОРУ
Viewers will be able to find your stream once you go live STREAM SETUP HELP		Stream URL rtmp://a.rtmp.youtube.com/live2 Backup server URL	СОРУ
	Start sending us your video from your streaming soft	rtmp://b.rtmp.youtube.com/live2?backup=1	СОРҮ

Go back to PTZ camera interface -> **Settings** -> **Video Transmission** -> **RTMP Settings**. Click "Enable" for Main Stream. In the RTMP Address, input Stream URL (just copied from YouTube Stream Settings), the add a "/" after. Copy Stream key from YouTube Stream Settings and input that after the "/". For example, Server URL is <u>rtmp://a.rtmp.youtube.com/live2</u>, Stream key is <u>123456abcdefg</u>, thus for RTMP Address, we put <u>rtmp://a.rtmp.youtube.com/live2/123456abcdefg</u>

Click "Save" and you will see preview from YouTube Live page in a moment.

## **RTMPS** settings

Choose "Go Live", then you'll see the settings below. Click "Streaming Software". Scroll down, and click "Advanced Settings". You'll be able to see "Server URL".

Select a video source @	
Streaming Software Setup Copy and paste the stream key into your streaming softw	ware.
Stream Key FB-2015906378591053-(	Сору
This stream key is valid until you log out of Facebook. Once you s preview the broadcast you have up to 5 hours to go live. Advanced Settings	start to
Persistent Stream Key This can be reused every time you go live. You can only broadcas one live video at a time with your persistent stream key.	t <b>()</b>
Backup Stream Once a backup stream is added to your live video, it cannot be removed. It will not affect your stream if you choose not to use it	
Server URL           rtmps://live-api-s.facebook.com:44:         Copy         In           This may be referred to as "URL" or "Address" in your streaming         In	igest URLs software.

Go back to PTZ camera interface -> **Settings** -> **Video Transmission** -> **RTMP Settings**. Click "Enable" for Main Stream. In the RTMP Address, input Stream URL (just copied from FB Live Stream Settings), the add a "/" after. Copy Stream key from FB Live Stream Settings and input that after the "/". For example, Server URL is <u>rtmps://live-api-s.facebook.com:443/rtmp/</u>, Stream key is <u>123456abcdefg</u>, thus for RTMP Address, we put <u>rtmps://live-api-s.facebook.com:443/rtmp/</u>123456abcdefg



Click "Save" and you will see preview from FB Live page in a moment.