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Product Manual

IV-SAM-VXN-1B, IV-SAM-VXP-1B, and IV-SAM-VXS-1B

1 Beyond Automate VX Series

Crestron Electronics, Inc.

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Contents

Overview 1
Features 2
IV-SAM-VXS-1B Features 3
IV-SAM-VXP-1B Features 5
IV-SAM-VXN-1B Features 7
Physical Description 9

Specifications 11
IV-SAM-VXS-1B Specifications 12
Product Specifications 12
IV-SAM-VXP-1B Specifications 14
Product Specifications 14
IV-SAM-VXN-1B Specifications 16
Product Specifications 16

Installation 18
In the Box 18
Wire the Camera System 18
Connect to the System 19

Initial Setup 21
Assign Network Interfaces 21
Set Static IP Addresses 21
Use Remote Support 23
Update Firmware 24

Resources 27
Crestron Support and Training 27
Product Certificates 27
Related Documentation 27

Overview

The Crestron 1 Beyond Automate VX Series camera switching systems bring a full multicamera studio experience to meetings, town halls, and classrooms. Crestron 1 Beyond cameras automatically switch based on the location of the active speaking participant. Visual AI enhanced camera switching intelligently frames camera shots with the participants centered.

> **NOTE:** 1 Beyond Automate VX models are functionally similar. For simplicity within this documentation, the term "Automate VX" is used except where otherwise noted.

- For more information about Automate VX software configuration, refer to the Automate VX Software Manual.
- For more information about Automate VX2 installation and initial setup procedures, refer to the Automate VX2 Series Product Manual.

Features

Refer to the following sections for more information on the 1 Beyond Automate VX model features:

- IV-SAM-VXS-1B Features
- IV-SAM-VXP-1B Features
- IV-SAM-VXN-1B Features

IV-SAM-VXS-1B Features

The IV-SAM-VXS-1B Automate VX is a voice-activated camera switching solution that brings a full multicamera studio experience to meetings, town halls, and classrooms. Camera switching and movement are done automatically based on the active speaking participant. Automate VX comes with built-in recording and streaming capability along with outputs for video conferencing.

Key features include:

- Automatic camera switching based on the active speaking participant
- Switches between multiple cameras for broadcast-style production
- Supports 3 SDI and 5 NDI sources; outputs SDI and NDI streams
- Intelligent video algorithm follows the conversation, avoiding excessive camera switching
- Easy configuration with the browser-based Room Design tool

Professional Services

The 1 Beyond Automate system requires the purchase of 1 Beyond Camera Systems Remote Professional Services. Remote Professional Services provides dedicated technical support for the remote deployment of Automate VX Voice-Activated Multi-Camera Switching Solutions.

Visit IV-PROSERVICE-1B for details.

> **NOTE**: For Crestron Intelligent Video Certified Engineers (IVC-E) planning to self-deploy and self-validate a purchased Automate VX system, the purchase of Remote Professional Services is optional, subject to verification by Crestron. Visit IV-PROSERVICE-1B for details.

Improved Video for Meetings

See who is speaking with close-up camera shots. Clean production-style camera switching provides a more engaging experience for remote participants or viewers.

Voice-Activated Switching

Hands-free operation uses data from the room microphones to locate the active speaking participant. Camera switching is determined by the mic type used.

Adapts to Room Sizes and Uses

Cameras can be located throughout the room for best camera angles. Room configurations can be set to accommodate different furniture layouts with a single button push.

Graphics, Titles, and Layouts

Combine multiple sources, superimpose titles, and add custom graphics. A graphical user interface allows for custom layouts, and not just picture-in-picture or side-by-side layouts.

Browser or Third-Party Control

Enable auto-switching, record/stream, and change room configurations or layouts using a Crestron® control module. An adaptable API is available for customizable user-interfaces on third-party control systems.

Conference, Stream, and/or Record

In addition to high-quality output for hard or soft codecs, the system has a built-in encoder and recorder to enable multiple live streams and over 100 hours of recording.

Room Designer Web Interface

The Room Designer tool provides the ability to design and configure meeting spaces. The browser interface is used to help choose the best position for a variety of cameras and microphones within a room.

IV-SAM-VXP-1B Features

The IV-SAM-VXP-1B Automate VX Pro is a voice-activated camera switching solution that brings a full multicamera studio experience to meetings, town halls, and classrooms. Camera switching and movement are done automatically based on the active speaking participant. Automate VX Pro comes with built-in recording and streaming capability along with outputs for video conferencing.

Key features include:

- Automatic camera switching based on the active speaking participant
- Switches between multiple cameras for broadcast-style production
- Supports 7 SDI and 5 NDI sources; outputs SDI and NDI streams
- Intelligent video algorithm follows the conversation, avoiding excessive camera switching
- Easy configuration with the browser-based Room Design tool

Professional Services

The 1 Beyond Automate system requires the purchase of 1 Beyond Camera Systems Remote Professional Services. Remote Professional Services provides dedicated technical support for the remote deployment of Automate VX Voice-Activated Multi-Camera Switching Solutions.

Visit IV-PROSERVICE-1B for details.

> **NOTE**: For Crestron Intelligent Video Certified Engineers (IVC-E) planning to self-deploy and self-validate a purchased Automate VX system, the purchase of Remote Professional Services is optional, subject to verification by Crestron. Visit IV-PROSERVICE-1B for details.

Improved Video for Meetings

See who is speaking with close-up camera shots. Clean production-style camera switching provides a more engaging experience for remote participants or viewers.

Voice-Activated Switching

Hands-free operation uses data from the room microphones to locate the active speaking participant. Camera switching is determined by the mic type used.

Adapts to Room Sizes and Uses

Cameras can be located throughout the room for best camera angles. Room configurations can be set to accommodate different furniture layouts with a single button push.

Graphics, Titles, and Layouts

Combine multiple sources, superimpose titles, and add custom graphics. A graphical user interface allows for custom layouts, and not just picture-in-picture or side-by-side layouts.

Browser or Third-Party Control

Enable auto-switching, record/stream, and change room configurations or layouts using a Crestron® control module. An adaptable API is available for customizable user-interfaces on third-party control systems.

Conference, Stream, and/or Record

In addition to high-quality output for hard or soft codecs, the system has a built-in encoder and recorder to enable multiple live streams and over 100 hours of recording.

Room Designer Web Interface

The Room Designer tool provides the ability to design and configure meeting spaces. The browser interface is used to help choose the best position for a variety of cameras and microphones within a room.

IV-SAM-VXN-1B Features

The IV-SAM-VXN-1B Automate VX Plus is a voice-activated camera switching solution that brings a full multicamera studio experience to meetings, town halls, and classrooms. Camera switching and movement are done automatically based on the active speaking participant. Automate VX comes with built-in recording and streaming capability along with outputs for video conferencing.

Key features include:

- Automatic camera switching based on the active speaking participant
- Switches between multiple cameras for broadcast-style production
- Supports 3 SDI and 12 NDI sources; outputs SDI and NDI streams
- Intelligent video algorithm follows the conversation, avoiding excessive camera switching
- Easy configuration with the browser-based Room Design tool

Professional Services

The 1 Beyond Automate system requires the purchase of 1 Beyond Camera Systems Remote Professional Services. Remote Professional Services provides dedicated technical support for the remote deployment of Automate VX Voice-Activated Multi-Camera Switching Solutions.

Visit IV-PROSERVICE-1B for details.

> **NOTE**: For Crestron Intelligent Video Certified Engineers (IVC-E) planning to self-deploy and self-validate a purchased Automate VX system, the purchase of Remote Professional Services is optional, subject to verification by Crestron. Visit IV-PROSERVICE-1B for details.

Improved Video for Meetings

See who is speaking with close-up camera shots. Clean production-style camera switching provides a more engaging experience for remote participants or viewers.

Voice-Activated Switching

Hands-free operation uses data from the room microphones to locate the active speaking participant. Camera switching is determined by the mic type used.

Adapts to Room Sizes and Uses

Cameras can be located throughout the room for best camera angles. Room configurations can be set to accommodate different furniture layouts with a single button push.

Graphics, Titles, and Layouts

Combine multiple sources, superimpose titles, and add custom graphics. A graphical user interface allows for custom layouts, and not just picture-in-picture or side-by-side layouts.

RESTful API for Crestron and Third-Party Control

Enable auto-switching, record/stream, and change room configurations or layouts using a Crestron® control module. An adaptable API is available for customizable user-interfaces on third-party control systems.

Conference, Stream, and/or Record

In addition to high-quality output for hard or soft codecs, the system has a built-in encoder and recorder to enable multiple live streams and over 100 hours of recording.

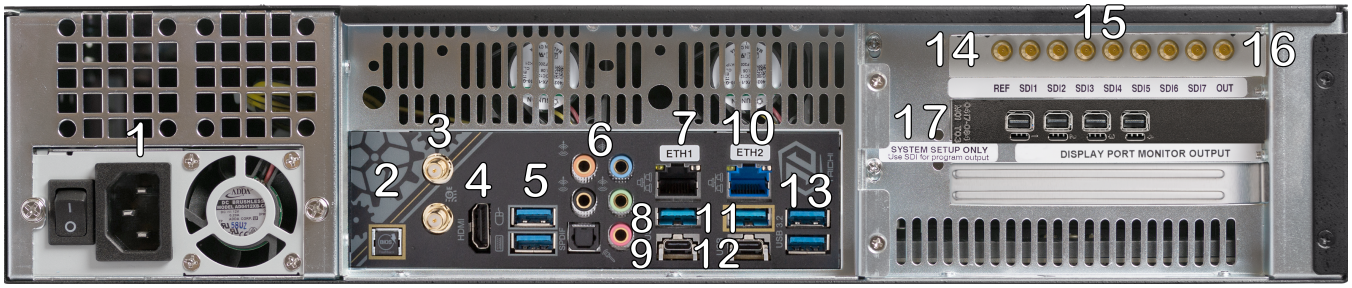
Room Designer Web Interface

The Room Designer tool provides the ability to design and configure meeting spaces. The browser interface is used to help choose the best position for a variety of cameras and microphones within a room.

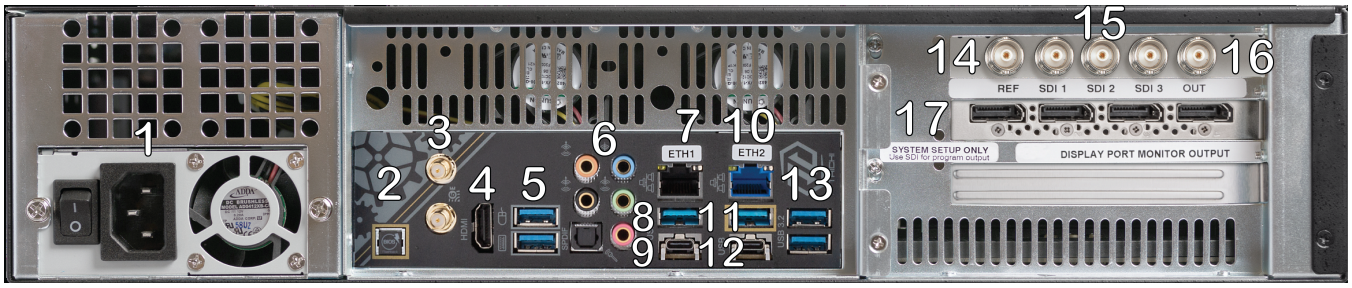
Physical Description

The camera switching device provides the following connectors and indicators.

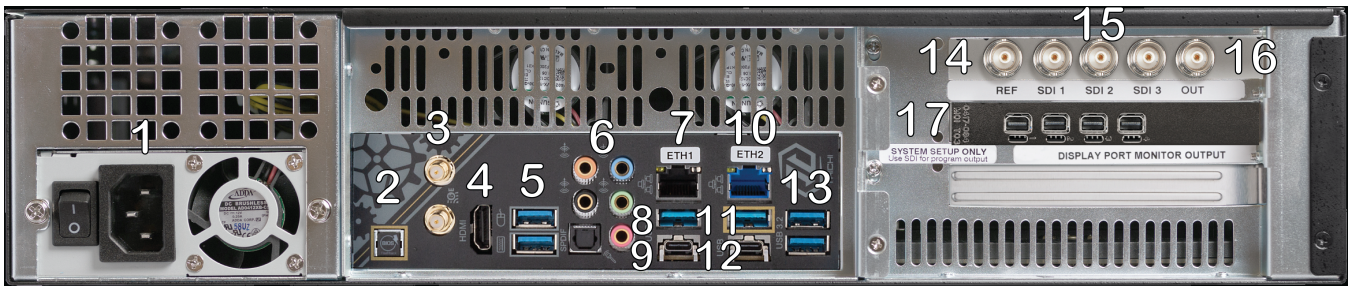
IV-SAM-VXP-1B Connectors and Indicators



IV-SAM-VXN-1B Connectors and Indicators



IV-SAM-VXS-1B Connectors and Indicators



No.	Name	Description
1	Power	AC power
2	BIOS Flashback Button	Not used
3	Wi-Fi	Connects the antenna to the onboard Wi-Fi™ network chip
4	HDMI®	Not used
5	USB 3.2 Gen 1	2x USB Type-A ports for peripheral device connections

No.	Name	Description
6	Audio Connections	**Orange**: Central/bass speaker out **Blue**: Line in **Black**: Rear speaker out **Green**: Headphone/speaker out **Pink**: Microphone in **Optical**: Optical SPDIF out
7	ETH 1	1 Gbps RJ-45 Ethernet port
8	USB 3.2 Gen1	USB Type-A port for peripheral device connections
9	USB 3.2 Gen2 Thunderbolt™ 4	USB Type-C® port for faster data rates
10	ETH 2	2.5 Gbps RJ-45 Ethernet port
11	USB 3.2 Gen2	USB Type-A port for faster data rates
12	USB 3.2 Gen2 Thunderbolt 4	USB Type-C port for faster data rates
13	USB 3.2 Gen 1	2x USB Type-A ports for peripheral device connections
14	SDI (REF)	SDI reference port (not used)
15	SDI	SDI inputs **IV-SAM-VXS-1B**: Equipped with 3 inputs **IV-SAM-VXP-1B**: Equipped with 7 inputs, use included mini-DIN to BNC adapters for camera inputs **IV-SAM-VXN-1B**: Equipped with 3 inputs
16	SDI (OUT)	SDI video program output
17	Mini DisplayPort for **IV-SAM-VXS-1B** and **IV-SAM-VXP-1B**	Mini DisplayPort™ video connection for a computer monitor output (setup only)
17	DisplayPort for **IV-SAM-VXN-1B**	DisplayPort™ video connection for a computer monitor output (setup only)

Specifications

Refer to the following sections for more information on the specifications for various 1 Beyond Automate VX models:

- IV-SAM-VXS-1B Specifications
- IV-SAM-VXP-1B Specifications
- IV-SAM-VXN-1B Specifications

IV-SAM-VXS-1B Specifications

Product specifications for the IV-SAM-VXS-1B are provided below.

Product Specifications

Automate VX Capabilities

Titles, Graphics, Layouts	Titles, logos, backgrounds can be added, Easy-to-use graphic designer to create any multi-source layout
Program Record	MP4 file (H.264 codec). User-selectable bitrate up to 10 Mbps
Recording Capacity	Records to internal 500 GB SSD storage
Streaming Encoder	Can stream to any RTMP server. Presets included for popular CDNs
NDI Support	For inputs and program output
Camera Control	Can control Crestron 1 Beyond PTZ cameras and tracking cameras over IP. For a complete list of compatible cameras, refer to the Automate VX Software Manual.
System Control	RESTful API over Network (TCP) for third party control
Compatible Codecs	Output via HD-SDI (SDI to HDMI® converter included) for connection to external conferencing codec or via USB adapter to external systems running Microsoft Teams® software, Zoom Rooms® software, etc.
Configuration	Browser-based configuration with secure log-in and user administration. Customizable preset options for sleep, wake, and scenario actions

Connectivity

Network Ports	2x RJ-45 Gigabit Ethernet

Video

Video Inputs	3x HD-SDI Inputs 5x NDI Inputs 1x USB Type-A Input
Video Output	Up to 1080p60, 1x HD-SDI (SDI to HDMI® converter included); NDI®|HX and virtual webcam output
Desktop Output	4x Mini DisplayPort™ output for setup and maintenance

Audio

Audio Input	3.5 mm Line In, USB, Dante® input
Compatible Mic Systems	For a list of compatible mic systems, refer to Automate VX Software Manual.
Compatible DSPs	For a list of compatible DSPs, refer to the Automate VX Software Manual.

Power

Power	400 W, 100–240VAC

Dimensions

Height	3.5 in. (89 mm)
Width	16.75 in. (425 mm)
Depth	14.5 in. (368 mm)

Weight

14 lb (6.35 kg)

IV-SAM-VXP-1B Specifications

Product specifications for the IV-SAM-VXP-1B are provided below.

Product Specifications

Automate VX Pro Capabilities

Titles, Graphics, Layouts	Titles, logos, backgrounds can be added, Easy-to-use graphic designer to create any multi-source layout
Program Record	MP4 file (H.264 codec). User-selectable bitrate up to 10 Mbps
Recording Capacity	Records to internal 1 TB SSD storage
Streaming Encoder	Can stream to any RTMP server. Presets included for popular CDNs
NDI Support	For inputs and program output
Camera Control	Can control Crestron 1 Beyond PTZ cameras and tracking cameras over IP. For a complete list of compatible cameras, refer to the Automate VX Software Manual.
System Control	RESTful API over Network (TCP) for third party control
Compatible Codecs	Output via HD-SDI (SDI to HDMI® converter included) for connection to external conferencing codec or via USB adapter to external systems running Microsoft Teams® software, Zoom Rooms® software, etc.
Configuration	Browser-based configuration with secure log-in and user administration. Customizable preset options for sleep, wake, and scenario actions

Connectivity

Network Ports	2x RJ-45 Gigabit Ethernet

Video

Video Inputs	7x HD-SDI Inputs 5x NDI Inputs 1x USB Type-A Input
Video Output	Up to 1080p60, 1x HD-SDI (SDI to HDMI® converter included); NDI®|HX and virtual webcam output
Desktop Output	4x Mini DisplayPort™ output for setup and maintenance

Audio

Audio Input	3.5 mm Line In, USB, Dante® input
Compatible Mic Systems	For a list of compatible mic systems, refer to Automate VX Software Manual.
Compatible DSPs	For a list of compatible DSPs, refer to the Automate VX Software Manual.

Power

Power	400 W, 100–240VAC

Dimensions

Height	3.5 in. (89 mm)
Width	16.75 in. (425 mm)
Depth	14.5 in. (368 mm)

Weight

14 lb (6.35 kg)

IV-SAM-VXN-1B Specifications

Product specifications for the IV-SAM-VXN-1B are provided below.

Product Specifications

Automate VX Plus Capabilities

Titles, Graphics, Layouts	Titles, logos, backgrounds can be added, Easy-to-use graphic designer to create any multi-source layout
Program Record	MP4 file (H.264 codec). User-selectable bitrate up to 10 Mbps
Recording Capacity	Records to internal 500 GB SSD storage
Streaming Encoder	Can stream to any RTMP server. Presets included for popular CDNs
NDI Support	For inputs and program output
Camera Control	Can control Crestron 1 Beyond PTZ cameras and tracking cameras over IP. For a complete list of compatible cameras, refer to the Automate VX Software Manual.
System Control	RESTful API over Network (TCP) for third party control
Compatible Codecs	Output via HD-SDI (SDI to HDMI® converter included) for connection to external conferencing codec or via USB adapter to external systems running Microsoft Teams® software, Zoom Rooms® software, etc.
Configuration	Browser-based configuration with secure log-in and user administration. Customizable preset options for sleep, wake, and scenario actions

Connectivity

Network Ports	2x RJ-45 Gigabit Ethernet

Video

Video Inputs	3x HD-SDI Inputs 12x NDI Inputs 1x USB Type-A Input
Video Output	Up to 1080p60, 1x HD-SDI (SDI to HDMI® converter included); NDI®|HX and virtual webcam output
Desktop Output	4x DisplayPort™ output for setup and maintenance

Audio

Audio Input	3.5 mm Line In, USB, Dante® input
Compatible Mic Systems	For a list of compatible mic systems, refer to Automate VX Software Manual.
Compatible DSPs	For a list of compatible DSPs, refer to the Automate VX Software Manual.

Power

Power	400 W, 100–240VAC

Dimensions

Height	3.5 in. (89 mm)
Width	16.75 in. (425 mm)
Depth	14.5 in. (368 mm)

Weight

14 lb (6.35 kg)

Installation

Use the following procedures to install the Automate VX.

In the Box

Qty.	Description
1	IV-SAM-VXS-1B, IV-SAM-VXN-1B, or IV-SAM-VXP-1B Automate VX Camera Switcher
	Additional Items
2	Rail, 20 in. (508 mm) (2060809)
1	Power Supply, 400 W (2060806)
1	Power Cord, IEC (2060805)
1	Wi-Fi™ Network Antenna
1	SDI to HDMI® Signal Converter (2060804)
1	Feet Set, Chassis (2060809)
	IV-SAM-VXS-1B and IV-SAM-VXP-1B Only
1	Mini DisplayPort™ to HDMI (male) Signal Cable (2060802)
	IV-SAM-VXN-1B Only
1	DisplayPort™ to HDMI Female Adapter (2060914)
	IV-SAM-VXP-1B Only
8	Cable, MiniDIN to BNC (2060814)
8	Ferrite Cable Clamps (2060810)

Wire the Camera System

To perform basic wiring for the camera system:

1. Designate a number for each PTZ camera in your system.
2. Mount the cameras as described in the appropriate documentation for your Crestron 1 Beyond camera model.

3. Connect each PTZ camera to the SDI® ports of the Automate VX device using HD-SDI cables (not included). Ensure the numbered SDI port corresponds to the camera number determined in step 1.

   > **NOTE:** Each PTZ camera should be connected to a network switch via Ethernet and can be powered via 30 W of PoE+ (Power over Ethernet Plus).

4. Connect the **ETH 2** port on the camera switching device to the network switch via an Ethernet cable.
5. Connect the DisplayPort™ computer monitor output to a display (either directly or through a matrix).
6. To perform initial device setup, either connect the **ETH** port to a computer for remote desktop control, or use a mouse and keyboard for direct control. For more information, refer to Connect to the System on page 19.

Connect to the System

For initial setup, connect either the **ETH 1** port to a computer for Windows® Remote Desktop, or use a mouse and keyboard for direct control.

To connect directly to the Windows Remote Desktop:

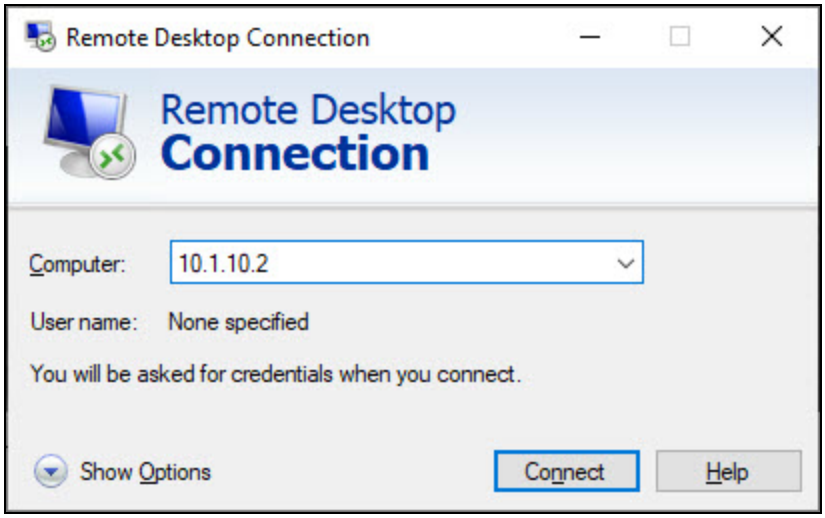
1. Connect the **ETH1** port of the camera switching device to a computer via a CAT5e or greater Ethernet cable.

   Camera Switching Device Ethernet Ports

2. Set the following static IP and subnet addresses on your computer:
   - **IP address**: 10.1.10.1
   - **Subnet address**: 255.255.255.0

3. Connect to the camera switching device in the remote desktop client using the following IP address: 10.1.10.2.

   Remote Desktop Client Login



4. When prompted, enter the following default login credentials:
   - **Username**: Valued Customer
   - **Password**: 1beyond

> **NOTE:** The **Username** and **Password** above are also the Windows system login credentials.

Initial Setup

Use the following procedures to set up the Automate VX following installation.

Assign Network Interfaces

Automate VX has two Network Interface Controller (NICs) labeled **ETH 1** and **ETH 2**. The Ethernet ports have the following default addressing configuration:

- The **ETH 1** port is set as a static IP (10.1.10.2) for initial configuration via the Windows® Remote Desktop application.
- The **ETH 2** port is set to use DHCP and can be used to make a network connection.

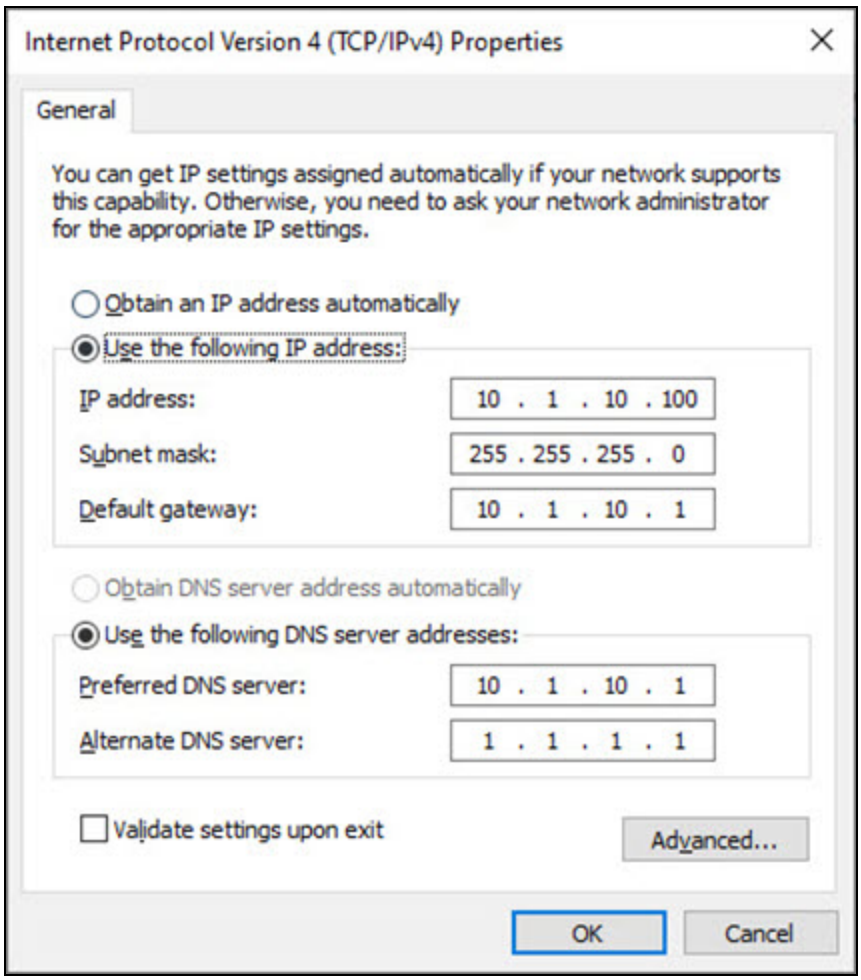
Set Static IP Addresses

Static IP addresses must be set after assigning the network interfaces.

> **NOTE:** The web interface and API of the Automate VX rely on static IP addresses for the system, cameras, and microphones. As a result, static IP address should be set during the initial setup.

Depending on your network configuration, either reserve the DHCP IP address in the network router or set static IP addresses individually on each Ethernet port. Static IP addresses can be set in the **Windows Network & Internet** settings menu.

Windows Internet & Network Settings



Assigning IP addresses for 1 Beyond cameras must be done through the 1 Beyond Camera Manager. For more information regarding assigning IP addresses for 1 Beyond cameras, refer to the documentation for your Crestron 1 Beyond camera model.

It is also recommended to change the camera names to match the global camera IDs that have been designated in the Automate VX software. For more information, refer to the documentation for your Crestron 1 Beyond camera model.

Use Remote Support

Automate VX can be configured from a laptop on the same subnet as the system using the web browser interface. For advanced configurations, Windows Remote Desktop can be used. 1 Beyond Camera Systems Remote Professional Services will access the Automate VX using TeamViewer. For more information about 1 Beyond Camera Systems Remote Professional Services, refer to IV-PROSERVICE-1B.

TeamViewer Quick Support is installed on the Automate VX's desktop for remote access and will require the system to be connected to the internet. Automate VX has a built-in Wi-Fi card, which can be used to set up remote access, but should be disabled in all other circumstances including after the installation is complete.

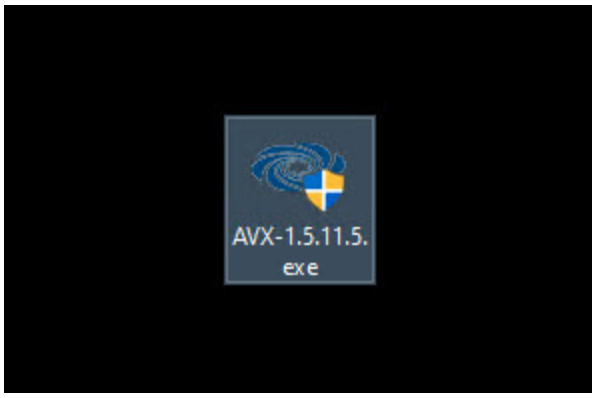
Update Firmware

Automate VX can be updated with firmware provided by Crestron. To update an Automate VX's firmware:

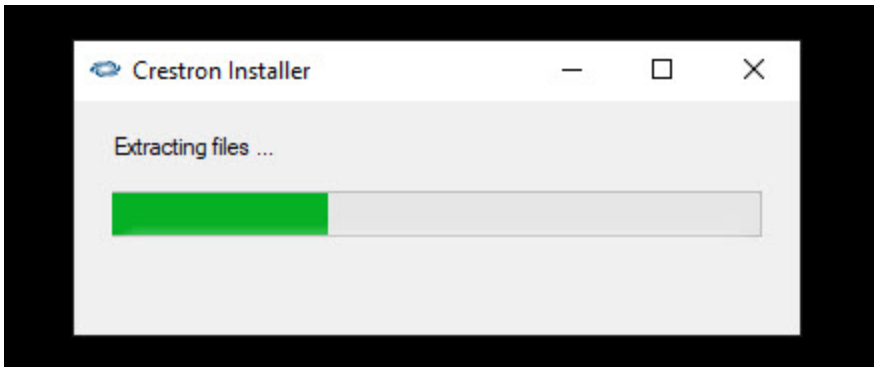
> **NOTE:** Wirecast® software is automatically updated with the Automate VX firmware installer if the system has an active Wirecast license. The license expiration date is located in the **File** menu of Wirecast (**File** > **Preferences** > **Licenses**). For more information about Wirecast software, refer to the Automate VX Software Manual.

1. Download the firmware file from the respective Automate VX product pages or https://www.crestron.com/support/search-results?c=4&m=10&q=Automate%20VX.
2. Double-click the AVX desktop icon to open the firmware installer, and the firmware begins loading. Once loading is completed, the Crestron Installer window is displayed.

   AVX Desktop Icon

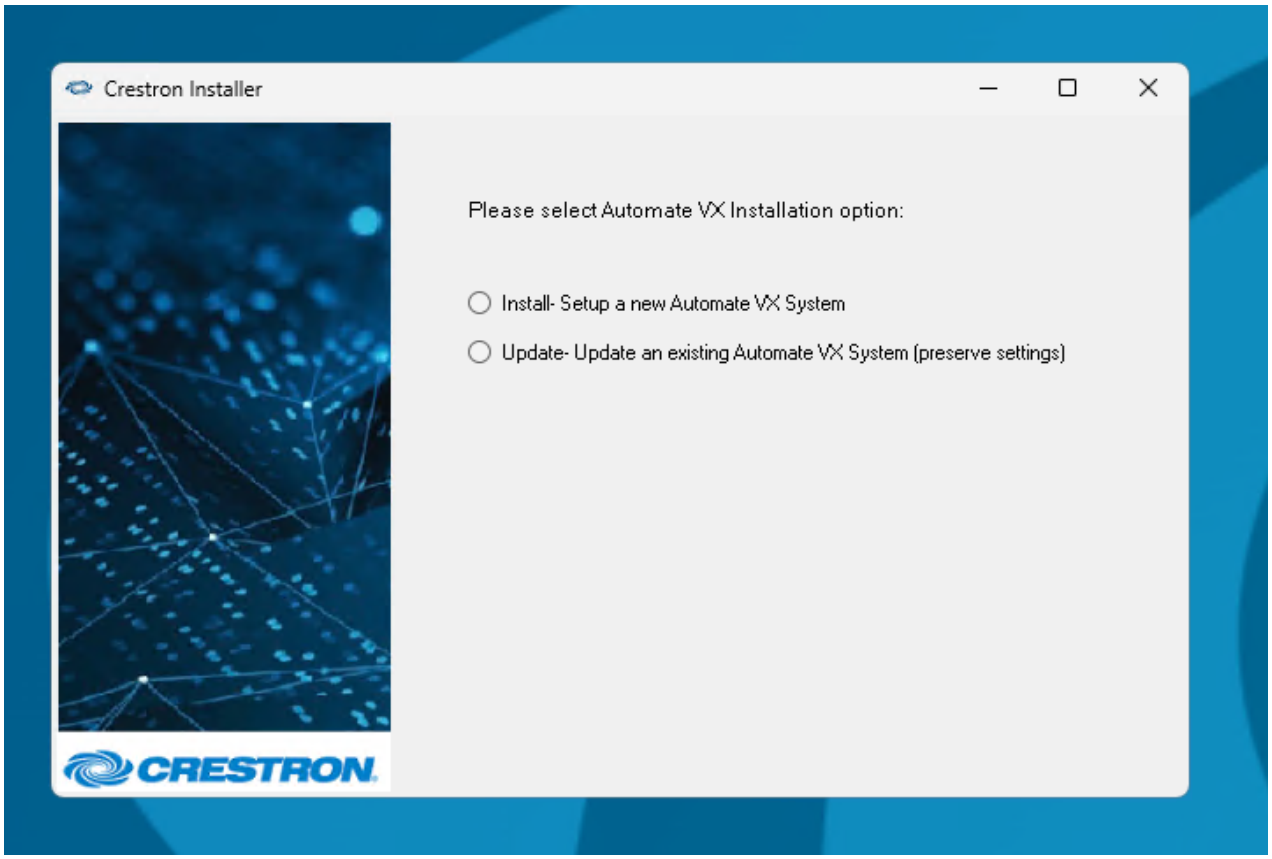
   Crestron Installer Window

3. Select one of two options in the Crestron Installer window:

> **NOTE**: The firmware update can be canceled by exiting the Crestron Installer window. Do not close the window once the firmware update is initiated.

Crestron Installer Window



- Select the **Install** option to perform a clean install of the Automate VX firmware. This option reverts the system to a factory default state.

  > **CAUTION**: This removes all configurations, layouts, and other settings on the Automate VX. Automate VX stores a backup of the previous firmware and settings that were present at the time of the upgrade. To revert the system to the previous Automate VX settings, contact Crestron True Blue Support.

- Select the **Update** option to update the Automate VX system with the new firmware. Select this option to preserve all configurations, layouts, and other settings configured on the Automate VX.

4. Once an option is chosen, select **Next** in the bottom right of the window. The desired firmware installation method is then performed. If the firmware update was successful, the Crestron Installer will respond with "The Automate VX package installation has been completed".
5. Close the Crestron Installer window.
6. Clear the cache in the web browser used to configure and operate the Automate VX system.

The Automate VX firmware is now updated.

Resources

The following resources are provided for the Automate VX.

> **NOTE:** You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- Crestron True Blue Support
- Crestron Resource Library
- Crestron Online Help (OLH)
- Crestron Training Institute (CTI) Portal

Product Certificates

To search for product certificates, refer to support.crestron.com/app/certificates.

Related Documentation

- IV-SAM-VX2 Series Product Manual
- Automate VX Software Manual.
- IV-SAM-VX Series Product Manual
- IV-CAM-P12/IV-CAM-P20/IV-CAM-I12/IV-CAM-I20 Series Product Manual
- IV-CAMPTZ-20 Series Product Manual
- IV-CAMPTZ-12 Series Product Manual
- IV-CAMA3-20 Series Product Manual

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