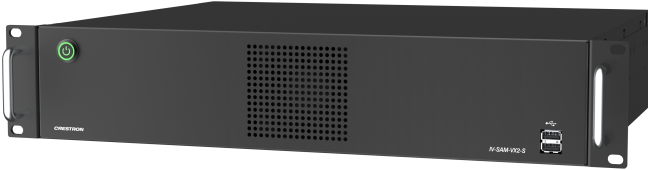


IV-SAM-VX2-S

Automate VX System Series 2 Voice-Activated, Multi-Camera Switching Solution



- Provides automatic camera switching based on the active speaking participant
- Switches between multiple cameras for broadcast-style production
- Supports 3 SDI or 5 NDI|HX® sources; outputs SDI and NDI streams
- Intelligent video algorithm follows the conversation, avoiding excessive camera switching
- Simple configuration with the browser-based Room Designer tool
- Visual AI autoframes and reframes to capture the best camera shots
- Built in encoder and recorder for live streams and video recording
- Customizable video layouts to accommodate video conferencing needs

The [IV-SAM-VX2-S](#) Automate VX is a voice-activated camera switching solution that brings the 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. Automate VX comes with built-in recording and streaming capability along with outputs for video conferencing.

Production Quality Camera Shots

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

High Definition Video for Conferencing

Connect 12x and 20x optical zoom [Crestron 1 Beyond Cameras](#) via 3G-SDI or NDI®|HX for high quality video output resolutions. Provide uncompressed high definition video through your conferencing codec of choice with the included SDI to USB-A 3.0 converter.

AutoFraming and Reframing with Visual AI

Visual AI directs Crestron 1 Beyond optical zoom cameras to automatically center participants in camera shots via AutoFraming. Reframing continuously keeps the participant centered in the camera shot — even when the participant moves from their initial position.

Voice-Activated Switching

Voice-activated switching uses data from the room microphones to locate the active speaking participant and change camera shots accordingly. Multiple microphone types are supported, including intelligent array microphones, wired and wireless microphones, and discussion systems.

No Code Configuration with Visual Designer

The [Room Designer](#) tool provides the ability to design and configure meeting spaces. The browser interface is used to create and visualize designs to accommodate the room's requirements, and to determine optimal placement of cameras and microphones. Set the desired camera switching experience graphically - no coding or camera presets required.

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.

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.

Custom Layouts

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

Native Crestron Control and REST API

Enable autoswitching, activate Scenarios, record/stream, change room configurations or layouts and more from your preferred control interface. An adaptable API is available for customizable user interfaces on third-party control systems.

Conference, Stream, and Record

In addition to high quality output for hard or soft codecs, the system has a built-in encoder and recorder to enable RMTTP streaming with 316 GB of storage for local program and ISO recording. Automated copy available to network and cloud storage.

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Specifications

Automate VX2 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; ISO Recording, MOV file
Recording Capacity	Records to internal 316 GB SSD storage
Streaming Encoder	Can stream to any RTMP server
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 Compatible Cameras
System Control	REST API over Network (TCP) for third party control
Compatible Codecs	Output via 3G-SDI (SDI to USB-A 3.0 converter included) for connection to external conferencing codecs running Microsoft Teams® software, Zoom Rooms® software, and others
Configuration	Browser-based configuration with secure login and user administration. Customizable preset options for sleep, wake, and scenario actions
Visual AI	Intelligence built into the Automate VX system, provides AutoFraming and Reframing with Crestron 1 Beyond Cameras

Communication

Ethernet	100/1000Mbps
USB	USB 3.2 host ports for mouse, keyboard, data drive, and camera signals
NDI	Supports up to 5 NDI® HX inputs; Supports 1 NDI® HX output

Connectors

USB Type-A (Front)	(2) USB Type-A 3.2 (Gen 2) connector, female; Connects to a keyboard, mouse, or data drive for system configuration
USB Type-A (Rear)	(5) USB Type-A 3.2 (Gen 2) connector, female; Connects to a keyboard, mouse, or data drive for system configuration; Supports one USB Type-A camera connection
USB Type-C (Rear)	(1) USB Type-C 3.2 (Gen 2, 5V/3A) connector, female; Connects to a keyboard, mouse, or data drive for system configuration; Supports one USB Type-C camera connection
NOTE: Only one USB camera connection (USB Type-A or USB Type-C) at a time is supported.	
SDI REF SDI 1-3	(1) Reference 3G-SDI connector (not used) (3) bidirectional 12-bit 3G-SDI connectors, female; For camera video inputs
SDI OUT	(1) bidirectional 12-bit 3G-SDI connector, female; For HD-SDI camera video output connection (SDI to USB-A 3.0 converter included)
HDMI	(1) HDMI 2.0b connector, female; HDMI digital video/audio output
DisplayPort	(1) DisplayPort™ 1.4a connectors, female; Connects to a monitor for system configuration menus
Mini DisplayPort	(3) Mini DisplayPort™ connectors, female (not used)
LAN	(3) RJ-45 connectors, female; 100/1000 Mbps 100BASE-TX/1000BASE-T Ethernet Ports
Audio Input	(1) 1/8 in. 3.5 mm connector, female TRS; Unbalanced line-level audio input
Mic Audio Input	(1) 1/8 in. 3.5 mm connector, female TRS; Unbalanced line-level audio input
Audio Output	(1) 1/8 in. 3.5 mm connector, female TRS; Unbalanced line-level audio output
VGA	(1) VGA connector, female (not used)
COM	(2) DB9 connectors, female (not used)

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Controls and Indicators

Power	(1) Push button with green LED backlight; For power on and off
LAN (rear)	(2) LEDs on LAN port; Green LED indicates Ethernet link status; Amber LED indicates Ethernet activity

Video

Input Signal Types	3G-SDI, NDI® HX, USB Type-A 3.2 (Gen 2), USB Type-C 3.2 (Gen 2, 5V/3A)
Output Signal Types	HD-SDI (SDI to USB-A 3.0 converter included), NDI® HX, virtual webcam; 1080p60/59.94/50/30/29.97/25/24/23.98, 1080i60/59.94/50, 720p60/59/54/50, NTSC, and PAL resolutions;
Desktop Output Signal Types	HDMI and DisplayPort for system configuration and maintenance via monitor

Audio

Audio Input	Dante® Networking audio input (Dante license not included), USB
Audio Output	Dante® Networking audio output (Dante license not included), USB
Compatible Mic Systems	For a list of compatible mic systems, refer to System Components .
Compatible DSPs	For a list of compatible DSPs, refer to Wired and Wireless Microphones .

Power

Power	400 W, 100–240VAC
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Environmental

Temperature	32° to 104° F (0° to 40° C)
Humidity	5% to 90% RH (noncondensing)
Heat Dissipation	477 BTU/hr typical; 1706 BTU/hr maximum

Construction

Chassis	Steel, black finish
Front Panel	Steel, black finish
Mounting	Freestanding or 2U 19 in. rack-mountable (adhesive feet and rack ears included)

Dimensions

Height	3.47 in. (88 mm)
Width	16.81 in. (427 mm)
Depth	15.33 in. (389 mm)

Weight

17.5 lb (7.94 kg)

Compliance

Regulatory Model: M202214003

FCC Part 15 Class A, IC Class A, CE, Intertek® Listed for US and Canada

Available Accessories

For a list of available accessories, visit the [IV-SAM-VX2-S](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

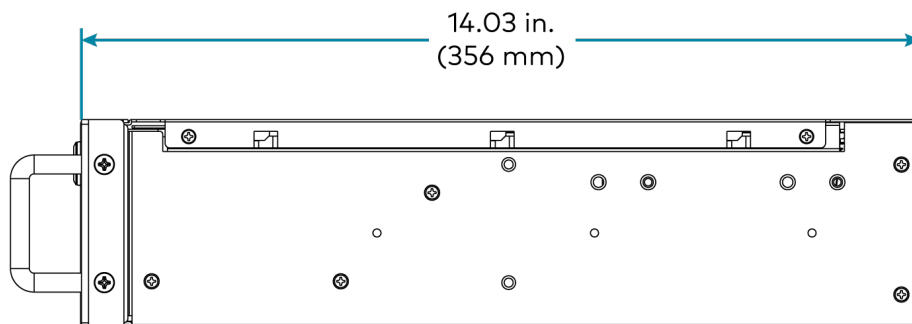
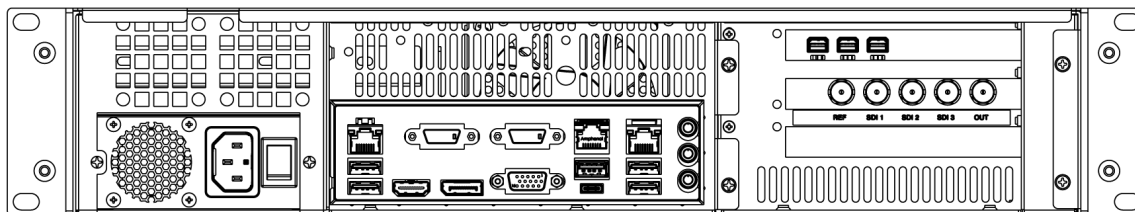
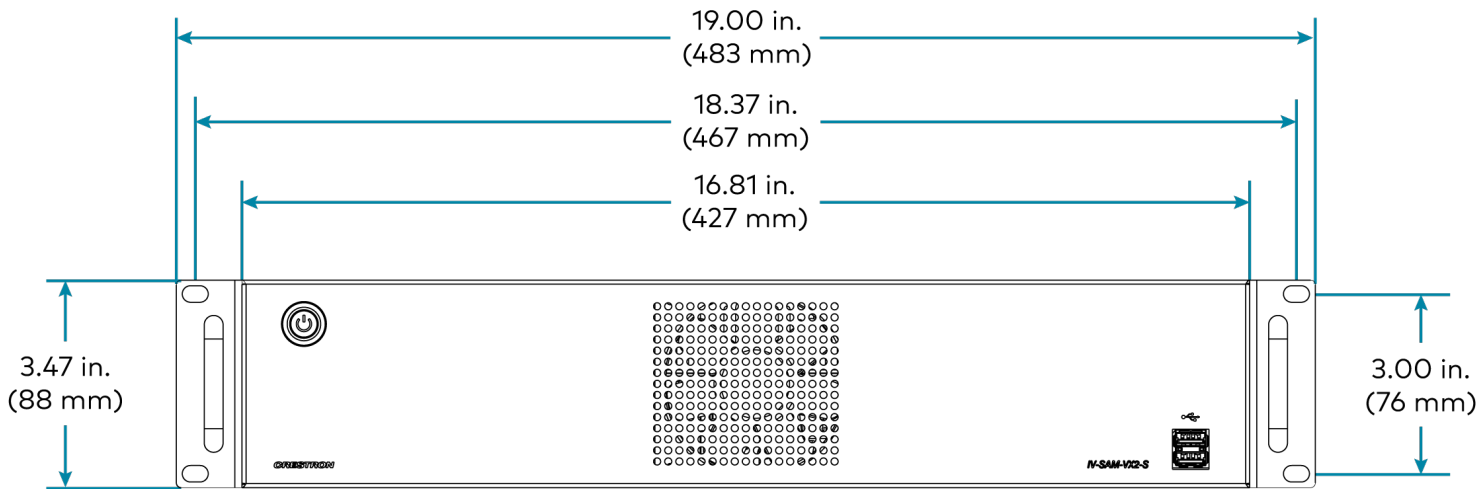
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