IV-CAM-I20-GV-B

Crestron 1 Beyond i20 Intelligent PTZ Camera, 20x Optical Zoom, Government Version

- *TAA compliant for government deployments*
- *Visual AI for Presenter Tracking*
- *High quality video supporting resolutions up to 1080p60*
- *Automatically pans, tilts, and zooms with dual camera technology, no external computer required*
- *Supports optical zoom for tracking distances up to ft from participants*
- *Connects directly to a codec or recording/streaming device*
- *Single Ethernet connection provides power (PoE), viewing,*
- *Easily configured with Crestron 1 Beyond Camera Manager 2 software*
- *Compatible with Automate VX multi-camera systems*

The IV-CAM-I20-GV-B is a high quality intelligent PTZ camera that uses visual AI to automatically track or frame a presenter. The IV-CAM-I20-GV-B is ideal for presenter tracking in large to extra large sized training rooms and classrooms, and group tracking meeting participants in large to extra large conference rooms. The IV-CAM-I20-GV-B has a dual camera design; the wide-angle reference camera uses visual AI to direct the PTZ camera. All visual AI is built into the camera – no external system is needed.

The IV-CAM-I20-GV-B is a TAA-compliant camera that is suitable for government deployments.

Presenter Tracking Capability

Visual AI is used to smoothly track a single moving presenter as they move through a designated presentation area. It is easily configurable to prevent tracking other subjects or displays by using Blocking Zones. Recommended tracking range is 15 to 50 ft from the presentation area.

Group Tracking Technology

Group Tracking utilizes visual AI to track multiple presenters smoothly in large training rooms and classrooms. The wide-angle reference camera continuously detects when participants enter or leave the presentation area, and the PTZ camera pans, tilts, and zooms to keep all presenters in the frame.

Preset Zones

Preset Zones utilizes visual AI to frame a dedicated area of the room. When a participant enters the Preset Zone, the camera automatically displays the area regardless of who is currently talking or where other participants may be.

Automate VX Compatible

The IV-CAM-I20-GV-B camera is compatible with Automate VX multi-camera speaker tracking systems. Use the IV-CAM-I20-GV-B presenter tracking in a designated area within ft.

Certified for Conferencing Software

The IV-CAM-I20-GV-B camera is certified for Microsoft Teams® Rooms and Zoom Rooms® conferencing software. Use the rear USB port and connect a USB cable to a compatible codec for conferencing software use.

High Quality Video

A high quality Sony® CMOS sensor enables the camera to output up to 1080p60 resolution video.

Networked Power, Viewing, and Control

Connect a single Ethernet cable to power (PoE), view, set up, and control the IV-CAM-I20-GV-B camera.

Mounting Options

Standard mounting holes make it easy to mount the camera. The IV-CAM-I20-GV-B ships with the color matched IVA-WMT-BRKT-1B Wall Mount Bracket, and is compatible with the IV-CAMA-UMB Universal Mounting Bracket and the IVA-CMT-BRKT-1B J-Mount Ceiling Bracket (both sold separately).

Specifications

Optics

Image Sensor	1/2.8 Sony® CMOS Sensor
Optical Zoom	20x
Focal Length	F=5.2-94 mm
Field of View (PTZ)	Horizontal: 56.45°
Field of View (Reference)	Horizontal: 104° (changes based on camera mode)
Shutter Speed	1/50-1/10,000 sec
Iris	F1.5-F3.0

CRESTRON

Minimum Illumination	2 lux
Pan/Tilt Angle	Pan: -130° — 130°, Tilt: -30° — 90°
Pan/Tilt Speed	Pan: 0.2° — 90°/s, Tilt: 0.2° — 70°/s
White Balance	Auto, Indoor, One Push, Manual
Exposure	Auto, Manual, Shutter Priority, Iris Priority, Brightness Priority

Camera Processing

Intelligent Video Functions	Presenter Tracking, Group Tracking, Preset Zones
Presets	Up to 256 configurable presets

Video

Video Outputs	3G-SDI, HDMI®, USB, NDI®|HX, ONVIF, RTSP, UVC
Signal Formats	SDI or HDMI: 1080p60/59.94/50/30/29.94/25, 720p60/59.94/50 USB: 1080p30/25, 720p30/25, 360p30

Communications

USB	USB-B 3.0
Ethernet	RJ-45, 100Mbps
Serial	RS-232, RS-485
Control Protocol	VISCA/TCP, VISCA/UDP, PELCO-D, PELCO-P, ONVIF

Management Client

Software	Crestron 1 Beyond Camera Manager 2 (Windows® OS computer required)

Connectors

COM	(1) 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232/485 port
PoE	(1) 8-pin RJ-45 connector, female
3G-SDI OUT	(1) BNC connector, female; 3G-SDI digital video output
HDMI OUT	(1) HDMI Type A connector; HDMI digital video output
USB	(1) USB Type B connector, female; USB 3.0 device port for video and control
12VDC 2.5A	(1) 3.3 mm DC power connector; 12VDC power input; PW-1225DU power pack sold separately

Controls and Indicators

Status Bar	(1) Multisegment tricolor LED bargraph; Half green LED bargraph indicates live camera feed; Full green LED bargraph indicates camera tracking; Full amber LED bargraph indicates firmware upgrade; Half red LED bargraph indicates Privacy Mode
RESET	(1) Recessed push button for hardware reset

Power

Power Source Options	Ethernet (PoE), Power Pack (PW-1225DU)
Power over Ethernet	IEEE 802.3af Class 3 Powered Device
Power over Ethernet Rating	15.4 W

NOTE: To comply with the European Directive (CE), shielded CAT5e cable must be used as a minimum for PoE power. |
| **Power Pack (sold separately)** | 12VDC, 2.5A, 50/60 Hz |

Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Mounting Options	IVA-WMT-BRKT-1B 1 Beyond Wall Mount Bracket (included), IVA-CMT-BRKTJ-1B 1 Beyond J-Mount Bracket (sold separately), IVA-CAMA-UMB 1 Beyond Universal Mounting Bracket (sold separately)
Mounting Thread	1/4 in. threaded mount hole

Dimensions

Height	6.51 in. (165 mm)
Width	8.90 in. (226 mm)
Depth	5.86 in. (149 mm)

Weight

4.11 lb (1.86 kg)

Compliance

Regulatory Model: M202306001

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

Model

IV-CAM-I20-GV-B
Crestron 1 Beyond i20 Intelligent PTZ Camera, 20x Optical Zoom, Moon Gray, Government Version

Included Accessories

IVA-WMT-BRKT-1B
Crestron 1 Beyond Wall Mount Bracket

Available Accessories

For a list of available accessories, visit the IV-CAM-I20-GV-B 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.

7.66 in.
(195 mm)

5.86 in.
(149 mm)

CRESTRON®