



VORTEX Series

CC831-HV

5MP IR Compact Panoramic AI Camera



Technical Specifications

Camera Specifications	
Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	SD: 1280x960 HD: 2560x1920
Lens Type	Fixed-focal
Focal Length	f = 1.47 mm
Aperture	F2.7
Iris Type	Fixed Iris
Field of View	180.0° (Horizontal) 120.0° (Vertical) 180.0° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in IR illuminators up to 20 meters with Smart IR, IR LED*4
Minimum Illumination	0.08 lux @ F2.7 (Color) 0.005 lux @ F2.7 (B/W) 0 lux with IR illumination on
Tilt Range	±20°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
Storage	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)

Video

Video stream settings	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload
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Audio	
Audio Capability	One-way Audio
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	Built-in microphone
Effective Range	5 meters

Network	
Users	Up to 6 clients *Live viewing for 6 clients *live viewing up to 4 clients and playback 2 clients
Security	Secure boot, Signed firmware, HTTPS/TLS encryption, Video encryption
Protocols	ARP, DHCP, DNS, HTTP, HTTPS, ICMP, IPv4, NTP, RTSP/RTP/RTCP, SSL, TCP/IP, TLS 1.2, UDP, WebRTC
Interface	10BASE-T/100BASE-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.

AI Analytics	
RealSight Engine	Smart IR III Deblur WDR White Balance Exposure Control

General	
Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0
Power Consumption	Max. 10.26W/6.96W (IR on/off)
Dimensions	160 (D) x 72 (W) x 60 (H) mm
Weight	492 g
Certifications	EMC CE (EN 55032 Class A, EN 55035), UKCA (BS EN 55032:2015+A11:2020, BS EN 55035:2017+A11:2020), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), ICES-003 Issue 7 Safety UL (UL 62368-1), CB (IEC/EN 62368-1 including annex Y, IEC/EN 62471) Environment IK10 (IEC 60529), IP66 (IEC 60529) IA BSMI (EMC: CNS 15936, Safety: CNS 15598-1)
Operating Temperature	Starting Temperature: -10°C ~ 55°C (14°F ~ 131°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR on) -30°C ~ 60°C (-22°F ~ 140°F) (IR off)
Humidity	98% RH (non-condensing)
Warranty	Up to 120 months (Depends on license type)

Included Accessories	
Packing Contents	Quick installation guide, mounting bracket, tilt bracket, screw pack

VORTEX AI Analytics	
Application	Intrusion detection Line crossing detection Loitering detection Unattended object detection Missing object detection
Audio detection	Yes
Camera tampering detection	Yes
AI Hub (xPro license required)	Attribute search Scene search Re-search Profile search LPR search Think search Event insight Facial recognition
Advanced AI (Advanced AI license required)	License plate recognition