



VORTEX Series

# CC830-HV

5MP Compact Panoramic AI  
Camera



## Technical Specifications

| Camera Specifications   |                                                                   |
|-------------------------|-------------------------------------------------------------------|
| Image Sensor            | 1/2.8" Progressive CMOS                                           |
| Max. Resolution         | SD: 1280x960<br>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)<br>120.0° (Vertical)<br>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                                                               |
| Minimum Illumination    | 0.08 lux @ F2.7 (Color)<br>0.005 lux @ F2.7 (B/W)                 |
| Tilt Range              | ±20°                                                              |
| Storage                 | MicroSD/SDHC/SDXC card slot<br>(Built-in 256GB industrial SDCard) |

| Video                 |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| Video stream settings | HD Video 2560 x 1920@15fps 1.2Mbps upload<br>SD Video 1280 x 960@15fps 300Kbps upload |

| Audio            |               |
|------------------|---------------|
| Audio Capability | One-way Audio |

|                 |                     |
|-----------------|---------------------|
| Interface       | Built-in microphone |
| Effective Range | 5 meters            |

| Network   |                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Users     | Up to 6 clients<br>*Live viewing for 6 clients<br>*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)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |

| 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. 9.12W                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimensions            | 115 (D) x 65 (W) x 59 (H) mm                                                                                                                                                                                                                                                                                                                                                                                       |
| Weight                | 338 g                                                                                                                                                                                                                                                                                                                                                                                                              |
| Certifications        | EMC<br>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<br>Safety<br>UL (UL 62368-1), CB (IEC/EN 62368-1 including annex Y, IEC/EN 62471)<br>Environment<br>IK10 (IEC 60529), IP66 (IEC 60529)<br>IA<br>BSMI (EMC: CNS 15936, Safety: CNS 15598-1) |
| Operating Temperature | Starting Temperature:<br>-10°C ~ 55°C (14°F ~ 131°F)<br>Working Temperature:<br>-30°C ~ 55°C (-22°F ~ 131°F)                                                                                                                                                                                                                                                                                                       |
| 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<br>Line crossing detection<br>Loitering detection<br>Unattended object detection<br>Missing object detection |
| Audio detection            | Yes                                                                                                                              |
| Camera tampering detection | Yes                                                                                                                              |

|                                            |                                                                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| AI Hub (xPro license required)             | Attribute search<br>Scene search<br>Re-search<br>Profile search<br>LPR search<br>Think search<br>Event insight<br>Facial recognition |
| Advanced AI (Advanced AI license required) | License plate recognition                                                                                                            |