

4K Ultra HD IP Box

XV-BX4K004-I



4K/12MP Ultra HD image quality
Ambarella S2 + Sony CMOS
HD Full Stream Output
Day & Night (ICR)
Excellent 4A Auto Control
- Auto Gain Control, Auto Iris, Auto White Balance, Auto Exposure
ePTZ
Full Function Interface



Features

4K/Ultra HD

It outputs full real-time 4K/UHD video image. It supports 12MP (4000*3000, 15fps, 4:3) super high resolution, 8.85MP DCI-4K (4096 x 2160, 24fps), and Ultra HD-4K (3840 x 2160, 25/30fps, 16:9). Thus, it offers unique picture enhancement in large area without losing details.

Camera Setup Scheduling

It can define application scenarios and configure different image parameters. Camera settings are automatically switched applied according to the predefined schedule.

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3D-MCTF Noise Reduction

With 3D-MCTF (Motion Compensation Temporal Filtering) digital noise reduction function, it cleans up image noise with minimal motion blur or loss of sharpness.

High Resolution & Low Bit Rate

With H.264 High Profile compression technique, low delay and low code rate, it can reach 2000TVL when compressing 8MP video under 6-8Mbps, utmost to save network bandwidth and storage space.

Multi-stream Output

It's kind of hybrid network camera. It can output HD network data stream and output HDMI digital HD or CVBS analog video.

Local Storage Function

With micro SD/SDHC memory card slot, Up to 64GB it can keep recording video contents for several days without any external device.

Unique Heat Dissipation Design

With rocket shaped heat dissipation design, it gives beautiful, generous and heavy impression. Rigorous temperature testing allows stability under any circumstances.

Power Protection

Camera power supply Interface is able to support both DC12V and AC24V to avoid misuse or backwards on the camera circuit damage.

Motion Detection & Alarm Linkage

When the video image is changed, it can automatically do the detection, alarm linkage and PTZ control, meanwhile inputting external sensor signal to the linkage.

Image Rotation & Mirror

It supports 90°, 180°, and 270° image rotation, then is able to be used in some special areas such as traffic light, ultra market cashier desk, long and narrow corridor, and etc.

Multiple Power Supply Mode

It supports 12V DC or 24V AC adapter (optional), with PoE (IEEE 802.3af) technology (optional). Users can deploy cameras via PoE so that eliminate the needs for power cables and reducing installation

Specification

Camera

Image Sensor	1/1.7"12MP Sony CMOS
Lens	Without lens (CS interface user optional 1/1.7",1",4/3" 8MP or above 8MP UHD lens)
Lens interface type	CS/C interface
MIN. Illumination	Color: 0.2 Lux @ F1.4 B/W: 0.1 Lux @ F1.4
Day & Night	Automatic Day / Night IR filter switch mechanism
Shutter Speed	1/25 or 30 ~ 1/10,000sec
DNR	3D -MCTF DNR
AGC	Auto
White Balance	Auto
Auto-Iris	Support (Auto Iris Lens Interface: DC-iris)
WDR	dWDR
BLC	Open / Close
HLC	Open / Close
Defog	Support
Horizontal Definition	>2000TVL (4096x2160 pixels)
Image Setting	✓ Image format , code rate , luminance, contrast , saturation, sharpness, AWB adjustable ✓ Multiple-zone intelligent OSD ✓ Image rotation & Mirror (Corridor model) ✓ Day/Night mode (Auto/ Manual/Schedule) ✓ Camera Setup Scheduling ✓ Latitude & Longitude image mode ✓ Privacy Masking
Day & Night Mode	Auto / Timing / Manual / Alarm trigger
Exposure Mode	Dark exposure, Center exposure, Average exposure, Designated areas exposure optional
Other Functions	Key to restore factory settings, Anti-Flicker, Three streams, Heartbeat, Image rotation, Privacy Masking, Watermarking, Setting access port.

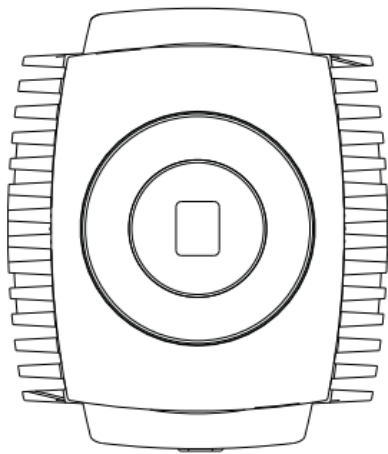
General

Communication	1* RJ45 10M/100M adaptive Ethernet port 1* RS232 (RS-485) interface
Digital In	1channel, Active Low , $V_{in} \leq 0.3V$
Digital Out	1channel, Binary signals, 1A/125VAC, 1A/30VDC
Video Out	1channel CVBS SD composite video output (BNC interface ,1.1Vp-p $\pm 10\%$, $R_L=75\Omega$), 1channel HDMI 1.4a HD digital output
Audio Interface	3.5mm Linear audio input & output interface (Line In/Out), External active microphone or line input.
USB Interface	Standard USB2.0 interface
Power	DC12V $\pm 10\%$ / DC12V + AC24V + PoE (AC24V and PoE optional)
Power Consumption	<7 W MAX
Approvals	CE, FCC, RoHS
Material	Aluminum Die-casting
Dimension	L154 x W82 x H70mm
Weight	750g
Operating Temp.	-20°C ~ 55°C (-4°F ~ 131°F)
Humidity	20 ~ 80% RH (non-condensing)

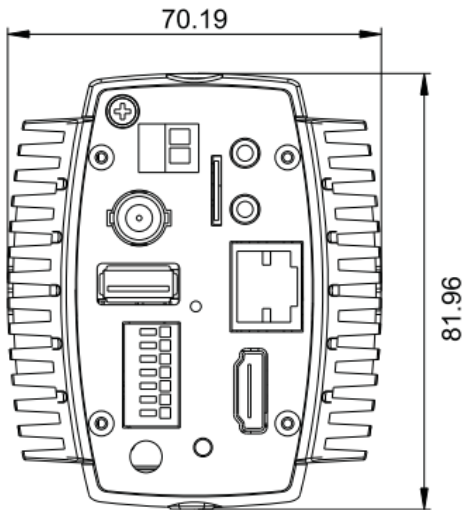
Network

Interface	10/100BASE-T
Video Compression	H.264/MJPEG
H.264 code level	High Profile @ Level 5.1
Compressed Output bit rate	32 Kbps ~ 12Mbps
Video Streaming	Support multichannel video stream output with full frame rate in maximum resolution, frame rate and bandwidth adjustable, H.264 supports VBR/CBR
Multiple-streaming	15fps@12MP+15fps@480P UHD-4K/DCI-4K + Full D1 + CIF/HDMI/CVBS FHD/1080P + 720P + Full D1 + CVBS/HDMI
Max. Resolution	4K3K(4000x3000), 12MP, 15fps DCI-4K(4096x2160), 8.85MP, 24fps UHD-4K(3840x2160), 8.29MP, 25/30fps
Frame Rate	15fps @ 4K3K , 24fps @ DCI-4K, 25/30fps @ UHD-4K, 25/30fps @ other resolution
Audio Compression	G.711(64Kbps) / MP2(16kHz 16bit 32kbps)
Local Storage	Micro SD/SDHC card (card not included)
Offline Storage	Support SDHC card, TF card; Stored video clips and snapshot.
ROI	Support setting fixed area or dynamic tracking
ePTZ	Support
Intelligent Alarm	Face detection, Motion detection, Masking Alarm, Cable broken, IP address conflict, Storage full, Error of Memory
Alarm Linkage	Upload alarm info and video files from FTP, HTTP and image server; start SD/SDHC storage video, Relay output.
Alarm	Pre-Post Alarm
Max No. of Clients	8
Protocols Supported	IPv4, TCP/IP, ONVIF, UDP, HTTP, DHCP, RTP/RTCP/RTSP, FTP, UPnP, DDNS, NTP, IGMP, ICMP
ONVIF	Support
Security	Password protection, Multiple-user access control
API	Support SDK, APP, NVR and CMS Management platform software
OS Supported	Windows 7, 8, Vista, XP, 2000

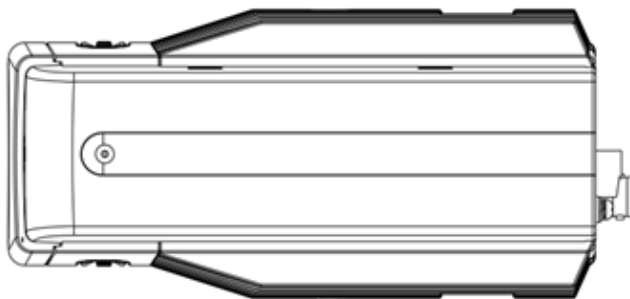
Dimensions



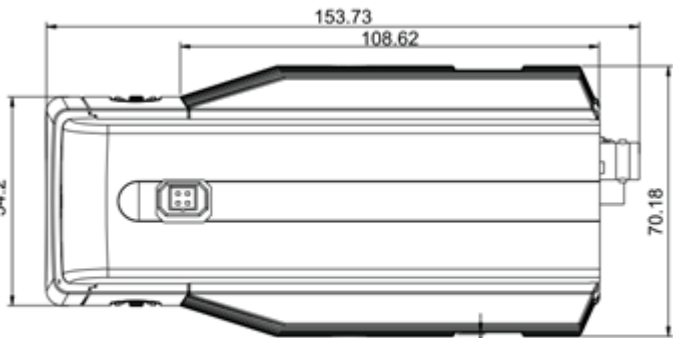
Front view



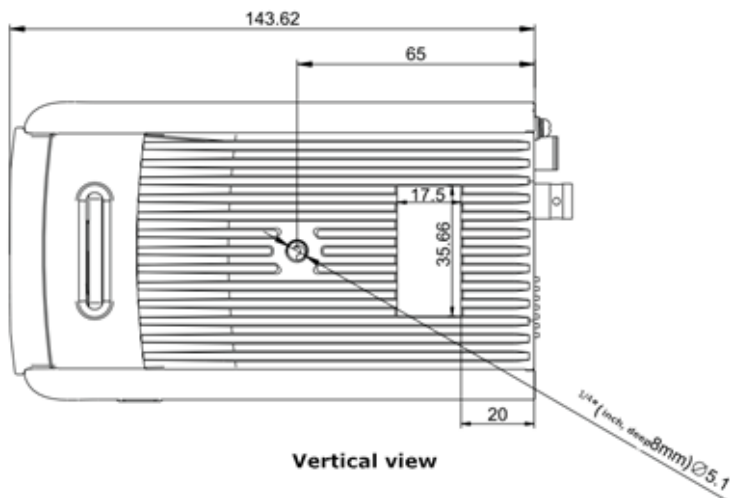
Back view



Left view



Right view



Vertical view