

**Technical Specifications**

**STARVIS 4K IR Bullet IP Camera**  
 FOR EXTERNAL APPLICATION

- 8MP at 30fps
- H.265, H.264 and MJPEG video compression
- WaveIR: Advanced Smart IR low light Performance
- Remote Zoom & focus Motorized lens
- WaveCapture: Smart Advanced Wide Dynamic Capture for high details in challenging conditions
- WaveStream: Smart Compression Technology based on bit rate Control, ROI
- WaveVCA\*: Intelligence built-in Camera Analytics
- 12V DC & Power Over Ethernet (IEEE 802.3af)
- IP66 & IK10 Environmental housing



CAMERA	
<b>Model</b>	<b>IP-30503LBO</b> Outdoor, Motorized Focus & Zoom lens
<b>Image Sensor</b>	SONY STARVIS EXMOR 1/1.8" 8.5MP CMOS
<b>Effective Pixels</b>	3952(H) x 2320(V)
<b>Scanning System</b>	Progressive scanning
<b>AGC Control</b>	Auto
<b>IRIS Type</b>	P-IRIS
<b>Minimum Illumination</b>	Color: 0.09 Lux / B/W : 0 Lux (IR LED On)
<b>Lens</b>	3.6 – 10 mm, F1.5
<b>Angle of View</b>	Dimension: Approx. 112.9° (Wide) to 52.3° (Tele) Horizontal: Approx. 98.4° (Wide) to 45.7° (Tele) Vertical: Approx. 54.6° (Wide) to 25.9° (Tele)
<b>Shutter Speed</b>	Auto / Manual ( 1/15 ~ 1/32000 ), Anti-Flicker, Slow Shutter( 2X, 3X, 5X, 6X, 7.5X, 10X )
<b>Day &amp; Night</b>	True Day & Night (Removable IR-cut filter)
<b>Wide Dynamic Range</b>	True WDR, 120 dB or above
<b>Smart Capture Technology</b>	<b>WaveCapture:</b> Smart Advanced Wide Dynamic Capture for high details in challenging conditions
<b>S/N Ratio</b>	50 Db

IR ILLUMINATOR	
<b>Smart IR</b>	<b>WaveIR</b> :- Advanced Smart IR
<b>IR Working Distance</b>	120ft
VIDEO	
<b>Video Compression</b>	H.265, H.264, MJPEG
<b>Profile</b>	H.264 : MP / HP H.265 : MP
<b>Multiple Profile Streaming Performance</b>	3840x2160p30 + 480p30 with H.264, H265 + MJPEG
<b>Max Resolution</b>	3840 x 2160
<b>Video Bit Rate</b>	100Kbps ~ 10Mbps Multi-rate for Preview and Recording
<b>Bitrate Control</b>	Multi Streaming CBR/VBR (Controllable frame rate and Bandwidth)
<b>Digital Noise Reduction</b>	3D-DNR
<b>Privacy Mask</b>	16 programmable zones
<b>Special Features</b>	<b>Wavestream:</b> Smart Compression Technology based on bit rate Control- Region of Interest
<b>Other Image Processing</b>	Configurable Exposure, White Balance, Sharpness

## Technical Specifications

AUDIO	
Audio Streaming	Two way
Audio Compression	G.711
Audio input	1[1.0Vrms, 3K ohm]
Audio Output	1
D/I/DO	1/1
EVENT	
Event Trigger	Motion Alarm, Temperature critical, Network disconnection
Smart Edge Analytics*	<b>WaveVCA:</b> Intelligence built-in Cameras Analytics*
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Event Notification	FTP, E-mail, Alarm-out, SD card
Storage	1x microSD / microSDHC / microSDXC (card not included)
NETWORK	
Ethernet Standard	10 / 100 / 1000Base-T
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
Plug In	ONVIF Profile S, CGI API
GENERAL	
Material	Aluminum Die-casting, White
Housing Environmental Rating	IP66
Housing Impact Rating	IK10
External I/O Terminals	1 x Alarm In / 1 x Alarm Out
Power Source	DC12V, PoE+(IEEE 802.3af)
Power Consumption	Below 16W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -40°C ~ 50°C (-40°F ~ 122°F)
Approvals	FCC, CE, ROHS, BIS
Weight	0.9 kg
Dimensions (D x H)	247.2mm x 96.7mm

## WaveVCA: Intelligence built-in Cameras Analytics

### Basic features

**Analytics Engine** VCA Technology's advanced tracking algorithm with rich library of detection behaviors

**Detection Zones and Rules** 40 zones (Multi-segment Polygons and Lines) in total, 60 rules in total as standard

**Intrusion Detection** Detection of the presence of an object

**Tamper Detection** Supported as standard

### Basic features\*



Intrusion Detection



Zones & Lines



Tamper Detection



Camera Shake Cancellation

### Optional features\*



Appear & Disappear Filter



Stopped Filter



Dwell Filter



Enter & Exit Filters



Tailgating Filter



Speed Filter



3D Calibration



Object Counting



People Tracker



Colour Filter



Abandoned Object Filter



Removed Object Filter



Direction Filter

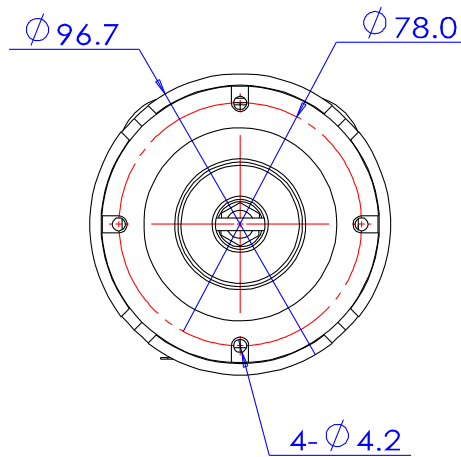
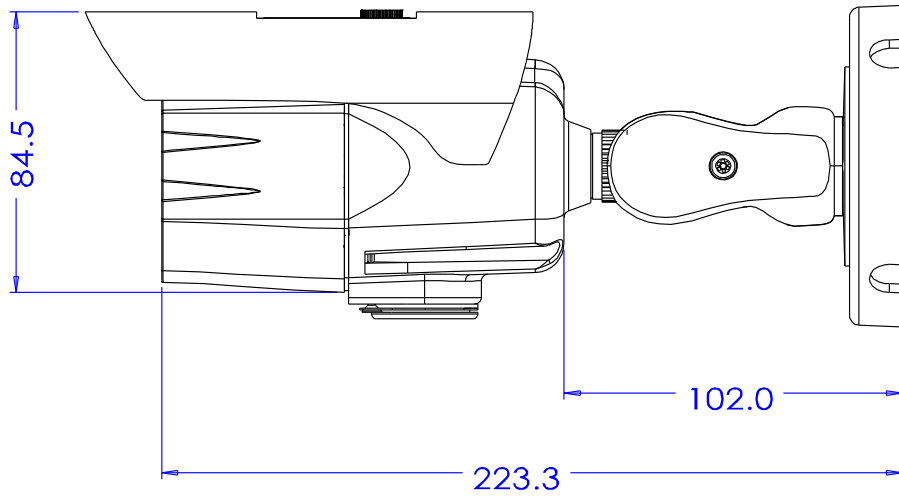


Logical Rules

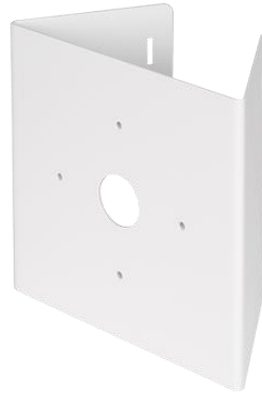
**Technical Specifications**

**Dimensions**

(Unit: mm)



**Accessories**



**W-BP07**