

Intelligent Video Analysis at Edge IP-30 Camera Series



# STARVIS 4K IR BULLET IP CAMERA

IP-30503LBO





About the Camera: IP 30 Series cameras are Artificial Intelligence powered latest camera series by Wavesys. It is built on advanced system-on-chip technology from California based company Ambarella and Sony Starvis Sensors. The IP30 series cameras are integrated with Wavesys Open Platform Enterprise Level Video Management Software WVMS. Wavesys is a video-based business intelligence leader with deep knowledge of different applications of intelligent video across distinct verticals.

### **Key Features**

- 30fps at 4K
- P Iris with Motorized Remote Zoom and Focus
- WaveVCA\*: Intelligence built-in Camera Analytic
- Power over Ethernet (IEEE 802.3af)
- UL, CE, FCC, BIS & RoHS Certification

- H.265, H.264 and MJPEG compression
- WaveStream: Smart Compression
   Technology based on bit rate Control, ROI
- IP67 and IK10 Environmental Housing

# **Application**













## **EVOKING TRUST**

# Key features of WVMS



WVMS Professional - Monitoring Console



WVMS Video Content Analytics



WVMS Enterprise - Wall & Redundancy



WVMS License Plate Recognition



WVMS Facial Recognition Module



WVMS Mobile Application

# Specification

#### CAMERA

Model	IP-30503LBO Outdoor, Motorized Focus & Zoom lens
Image Sensor	SONY STARVIS EXMOR 1.8" 8.5MP CMOS
Effective Pixels	3952 (H) x 2320(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	P-IRIS
Minimum Illumination	Color: 0.09 Lux / BW: 0 Lux (IR LED ON)
Lens	3.6-10mm , F1.5
Angle of View	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)
Shutter Speed	Auto / Manual (1/15 ~ 1/32000 ), Anti-Flicker, Slow Shutter(2X, 3X, 5X, 6X, 7.5X, 10X )
Day & Night	True Day & Night (Removable IR-cut filter)
Wide Dynamic Range	True WDR, 120 dB or above
Smart Capture Technology	WaveCapture: Smart Advanced Wide Dynamic Capture for high details in challenging conditions
S/N Ratio	50 Db
IR ILLUMINATOR	30 00
Smart IR	WavelR :- Advanced Smart IR
IR Working Distance	120ft Depending on object size
VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264 : MP / HP H.265 : MP
Multiple Profile Streaming Performance	3840x2160p30 + 480p30 with H.264, H265 + MJPEG
Max Resolution	3840 x 2160
Video Bit Rate	100Kbps ~ 10Mbps Multi-rate for Preview and Recording
Bitrate Control	Multi Streaming CBR/VBR (Controllable frame rate and Bandwidth
Digital Noise Reduction	3D-DNR
Privacy Mask	16 programmable zones
Special Features	Wavestream: Smart Compression Technology based on bitrate control region of intrest

Other Image Processing	based on bit rate Control- Region of Interest Configurable Exposure, White Balance, Sharpness
AUDIO	
Audio Compression	G.711
Audio Input	1[1.0Vms, 3K ohm]
Audio Output	1
Audio Streaming	Two Way
EVENT	
Event Trigger	Motion Alarm, Temperature critical, Network disconnection
Smart Edge Analytics*	WaveVCA: 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
otorago	(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 ,UL
Weight	0.9 kg
Dimensions (D x H)	247.2mm x 96.7mm





# WaveVCA: Intelligence built-in Cameras Analytics

### **Basic features**

an object

**Analytics Engine** WVCA 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

Tamper Detection Supported as standard



Intrusion Detection



**Tamper Detection** 



Zones & lines

### **Optional features**

Detection Behavior Enter, Exit, Appear,
Disappear, Stop, Direction, Dwell filter,
Abandoned/Removed object filter, Tailgating
Logical Rules Extends standard rules
to allow various combinations of the inputs
3D Behavior Perspective Corrected Size and
Speed Filters

Object Classification - Configured

Max./Min. object sizes and Max./Min. speeds

Counting Line High accuracy people and

vehicle counting, 20 counters in total

Meta Data JSON format, Plain XML format





Dwell Filter

**≒** Stopped Filter

















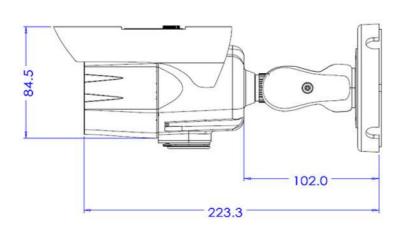


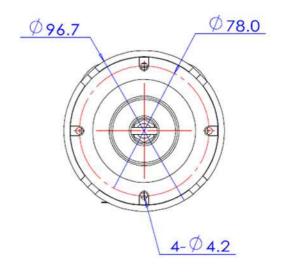












# **ACCESSORIES**



W-BP07