

Intelligent Video Analysis at Edge IP-30 Camera Series



# STARVIS 2MP IR BULLET IP CAMERA

IP-30203LBO





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**

- Full HD 1080p 30fps
- 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**













# **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-30203LBO Outdoor, Motorized Focus & Zoom lens
Image Sensor	SONY STARVIS EXMOR 1/2.8" 2.1M CMOS
Effective Pixels	1945(H) x 1109(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	P-IRIS
Minimum Illumination	Color: 0.02 Lux / B/W: 0 Lux (IR LED On)
Lens	2.8 - 12.0 mm, Fl.4
Angle of View	Dimension: Approx. 113° (Wide) to 41° (Tele) Horizontal: Approx. 96° (Wide) to 35° (Tele) Vertical: Approx. 51° (Wide) to 20° (Tele)
Shutter Speed	Auto / Manual: 1/30 ~ 1/32,000, Anti-Flicker, Slow Shutter (1/2,1/3,1/5,1/6,1/7.5,1/10)
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	
Smart IR	WaveIR :- Advanced Smart IR
IR Working Distance	120ft-140ft , depend upon Object size
VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HP H.265: MP
Multiple Profile Streaming Performance	1080p30 + D1(704x480 or 704x576) p30 with H.264,H.265 + MJPE0
Max Resolution	1920 x 1080
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 bit rate Control- Region of Interest
Other Image Processing	Configurable Exposure, White Balance, Sharpness
AUDIO	11 11 11
Audio Streaming	Two way
Audio Compression	G.711
Audio Input	1 [1.0Vms, 3K ohm]
Audio Output	1
DI/DO	1/1
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	lx microSD / microSDHC / microSDXC (card not included)
NETWORK	- Contraction and a contraction of the
Ethernet Standard	10 / 100 Base-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	COURT PRODUCT CONTROL AND
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	DC12V Max 8.9W, PoE Max 10.3W Humidity 10 ~ 90% RH (non-condensing)
Operating Conditions	[DC12V / POE] -40°C ~ 50°C (-40°F ~ 122°F)
Approvals	UL,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**

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

















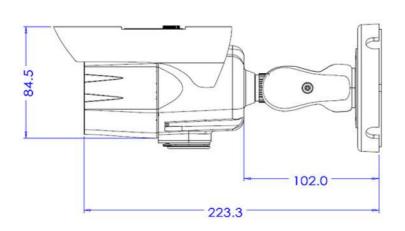


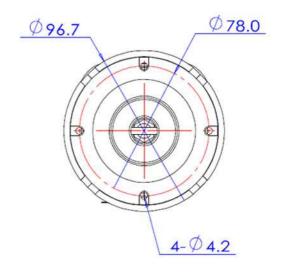












# **ACCESSORIES**



W-BP07