

Intelligent Video Analysis at Edge IP-30 Camera Series



STARVIS 2MP IR BULLET IP CAMERA

IP-30201LBO





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
- True Day/Night and WDR
- WaveVCA*: Intelligence built-in Camera Analytics
- IP67 and IK10 Environmental Housing
- H.265, H.264 and MJPEG compression
- WaveStream: Smart Compression Technology based on bit rate Control, ROI
- Power over Ethernet (IEEE 802.3af)
- UL, CE, FCC, BIS & RoHS Certification

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-30201LBO
Image Sensor	SONY STARVIS EXMOR 1/2.8" 2.1M CMOS
Effective Pixels	1920(H) x 1080(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	Auto Exposure
Minimum Illumination	Color: 0.03 Lux / BW: 0 Lux (IR LED ON)
Lens	4.0 mm, F2.6
Angle of View	Horizontal: Approx. 86.0°
	Vertical: Approx. 46.0°
Shutter Speed	Auto / Manual (1/30 ~ 1/32,000), Anti fliker
Processor of Marie St.	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-140 ft Internal/ External optional
VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HP, H.265: MP
Multiple Profile Streaming	1080p30 + D1(704x480 or 704x576) p30 with H.264, H.265 + MJPEG
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
Image Orientation	Flip / Mirror / Corridor Mode
Analogue Output	N/A

AUDIO

AUDIO	
Audio Compression	N/A
Audio input / output	N/A
EVENT	•
Event Trigger	Motion, Temperature critical
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Event Notification	FTP, E-mail, SD card
Smart Edge Analytics	WaveVCA: Intelligence built-in Cameras Analytics
NETWORK	
Ethernet Standard	10 / 100 Base-T
IP	IPv4
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
External I/O Terminals	N/A
Language on web page	English
Power Source	DC12V, PoE(IEEE 802.3af)
Power Consumption	DC12V Max 4.5W, PoE Max 6W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing)
	[DC12V / PoE] -30°C ~ 50°C (-22°F ~ 122°F)
Approvals	FCC, CE, IP67
Weight	0.5 kg
Dimensions(D x H)	163 mm x 67.5 mm
EDGE STORAGE	
Storage	1x microSD / microSDHC / microSDXC (card not included)





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

















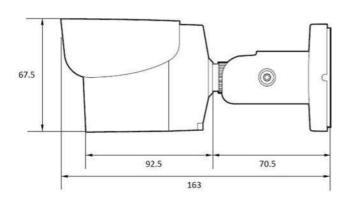


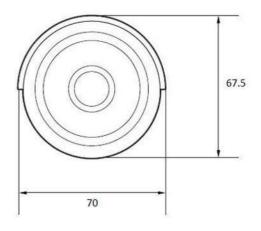












ACCESSORIES



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