

Intelligent Video Analysis at Edge IP-30 Camera Series



20MP 360° SURROUND VIEW IP CAMERA

IP-30303LDO4





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

- 4 x 5MP(20MP), 30fps at 5MP per sensor
- Flexible positioning for four camera heads
- One IP Address for four cameras
- IP67 and IK10 Environmental Housing

- H.265, H.264 and MJPEG compression
- Easy position setting by a magnet
- Power over Ethernet (IEEE 802.3af)
- · UL, CE, FCC, BIS & RoHS Certification

Application





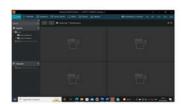








Key features of WVMS



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-30303LDO- 4 Surround View, Motorized Focus & Zoom lens
Image Sensor	4 x SONY STARVIS EXMOR 1/2.8" 5M CMOS
Effective Pixels	2592(H) x 1944(V) per sensor
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	Auto Exposure
Minimum Illumination	Color: 0.13 Lux / B/W : 0.005 Lux
Lens	2.8 – 8 mm, F1.6
Angle of View	Horizontal: Approx. 93° (Wide) to 51° (Tele)
Shutter Time	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
VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HPH.
	H.265: MP
Multiple Profile Streaming Performance	2592x1944/30 + 480p30 with H.264,H265 + MJPEG
Max Resolution	2592 x 1944
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

Analogue Output	1 (Installation only) CVBS 1.0V p-p (75Ω), 4:3 aspect ratio ,Camera selectable
AUDIO	
Audio Compression	G.711
Audio input / output	1/1 (For the 1st Camera)
EVENT	
Event Trigger	Motion Alarm, Temperature critical, DI
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Smart Edge Analytics	WaveVCA: Intelligence built-in Cameras Analytics
Event Notification	FTP, E-mail, Alarm-out, SD card
NETWORK	
Ethernet Standard	10/100/1000Base-T(1Gbps)
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	1 x Alarm In / 1 x Alarm Out (For the 1st Camera)
Language on webpage	English
Power Source	DC12V, Ultra PoE(IEEE 802.3bt Class5)
Power Consumption	Max 28W, PoE Max 31W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -30°C ~ 50°C (-22°F ~ 122°F)
Approvals	FCC, CE, IP67,IK10
Weight	2.1 kg
Dimensions (D x W)	Ø210mm x 92mm
EDGE STORAGE	
Storage	4 x 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



















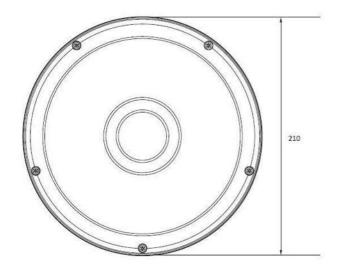


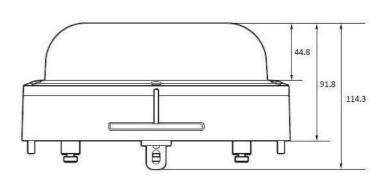




EVOKING TRUST

DIMENSIONS





ACCESSORIES



BJC06



BCO01



BC15



BW15



BP01