

Multi Layered Deep Learning Ai Analytics at Edge IP- 50 Camera Series



FLASHLIGHT TURRET Ai OUTDOOR CAMERA IP-50301FUO



About the Camera : IP 50 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 IP 50 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 5MP
- WaveStream: Smart Compression Technology based on bit rate Control, ROI
- . Power over Ethernet (IEEE 802.3af)
- . UL, CE, FCC, BIS & RoHS Certification

- . H.265, H.264 and MJPEG compression
- . WaveVCA*: Intelligence built-in Camera Analytics
- . IP67 and IK10 Environmental Housing
- . 2.8 mm fixed lens with Auto exposure
- . Deep Learning Object Tracker/People Tracker

Application









WVMS Professional - Monitoring Console



WVMS Video Content Analytics

Specification



WVMS Enterprise - Wall & Redundancy



WVMS License Plate Recognition



WVMS Facial Recognition Module



WVMS Mobile Application

CAMERA	
Model	IIP-50301FUO
Image Sensor	SONY STARVIS IMX335, 1/2.8" 5.14M CMOS
Effective Pixels	2592(H) x 1944(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	Auto IRIS
Minimum Illumination	Color: 0.1Lux / B/W : 0 Lux (IR LED On)
Lens	Fixed, 2.8mm, F2.0
Angle of View	H – 102.4°, V - 74°
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
IR ILLUMINATOR	
Smart IR	WaveIR :- Advanced Smart IR
IR LED	1 x High Power LED
IR Working Distance	Up to 25m,depend upon object size
VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264 : MP / HP
	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	(Controllable frame rate and Bandwidth) 3D-DNR
Digital Noise Reduction Privacy Mask	
-	3D-DNR
Privacy Mask	3D-DNR 16 programmable zones
Privacy Mask	3D-DNR 16 programmable zones WaveStream: Smart Compression Technology based on bit
Privacy Mask Special Features	3D-DNR 16 programmable zones WaveStream: Smart Compression Technology based on bit rate Control- Region of Interest
Privacy Mask Special Features Other Image Processing	3D-DNR 16 programmable zones WaveStream: Smart Compression Technology based on bit rate Control- Region of Interest Configurable Exposure, White Balance, Sharpness

AUDIO	
Audio Streaming	Тwo way
Audio Compression	G.711
Audio input / output	1(Built-in Mic)/1(Built-in Speaker/Siren)
EVENT	
Event Trigger	Motion Alarm, Temperature critical, DI
Smart Edge Analytics*	WaveVCA: Intelligence built-in Cameras Analytics*
Pre-Post Recording	Pre: 1~5 sec
rie-rost Recording	Post: 1~240 sec
Event Notification	FTP, E-mail, Alarm-out, SD card
NETWORK	
Ethernet Standard	10 / 100 / 1000Base-T
IP	IPv4
	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP,
Protocol	HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP,
	SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
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Plug In	ONVIF Profile S, CGI API
Plug In	
Plug In GENERAL	ONVIF Profile S, CGI API
Plug In GENERAL Material	ONVIF Profile S, CGI API Aluminum Die-casting, White
Plug In GENERAL Material External I/O Terminals	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out
Plug In GENERAL Material External I/O Terminals Language on webpage	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English
Plug In GENERAL Material External I/O Terminals Language on webpage Power Source	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English DC12V, POE(IEEE 802.3af)
Plug In GENERAL Material External I/O Terminals Language on webpage Power Source Power Consumption	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English DC12V, PoE(IEEE 802.3af) DC12V Max 10.2W, PoE Max 12.5W
Plug In GENERAL Material External I/O Terminals Language on webpage Power Source Power Consumption	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English DC12V, PoE(IEEE 802.3af) DC12V Max 10.2W, PoE Max 12.5W Humidity 10 ~ 90% RH (non-condensing)
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Plug In GENERAL Material External I/O Terminals Language on webpage Power Source Power Consumption Operating Conditions Approvals NDAA Weight	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English DC12V, PoE(IEEE 802.3af) DC12V Max 10.2W, PoE Max 12.5W Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -30°C ~ 50°C (-22°F ~ 122°F) FCC, CE, IP67, IK10,UL Compliant 0.80 kg
Plug In GENERAL Material External I/O Terminals Language on webpage Power Source Power Consumption Operating Conditions Approvals NDAA Weight Dimensions (D x H)	ONVIF Profile S, CGI API Aluminum Die-casting, White 1 x Alarm In / 1 x Alarm Out English DC12V, PoE(IEEE 802.3af) DC12V Max 10.2W, PoE Max 12.5W Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -30°C ~ 50°C (-22°F ~ 122°F) FCC, CE, IP67, IK10,UL Compliant 0.80 kg
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WaveVCA : Intelligence built-in Cameras Analytics

Basic features

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 an object

Tamper Detection Supported as standard 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

Optional features

Enter Filter



Appear Filter

Dwell Filter

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Stopped Filter

3D Calibration

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Counting

Disappear Filter





Tailgating Filter



Exit Filter

Removed Object Filter

Logical Rules

•••: Abandoned **Object Filter**



DL Object tracker





Forensic Search

DL People Tracker



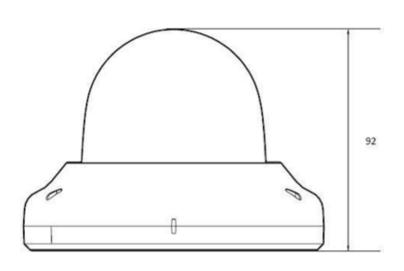
Forensic Search

Forensic Search Works with age, sentiment, gender, and ethnicity estimation





Dimensions



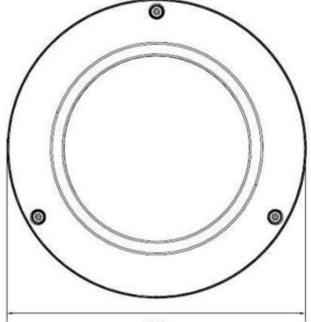




BW10



BP04



ø125



BC10







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