WAVESYS

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Multi Layered Deep Learning Ai Analytics at Edge

IP- 50 Camera Series

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STARVIS 5MP Pin Hole Camera

IP-50301CPH

3 YEAR WARRANTY

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 30 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 5MP @30FPS

- True Day/Night &WDR

- WaveStream: Smart Compression Technology based on bit rate Control, ROI

- Power over Ethernet (IEEE 802.3af)

- H.265, H.264 and MJPEG compression

- WaveVCA*: Intelligence built-in Camera Analytics

- Easy and flexible installation

- Image Rotation for vertically oriented space

- CE, FCC, BIS & RoHS Certification

Application
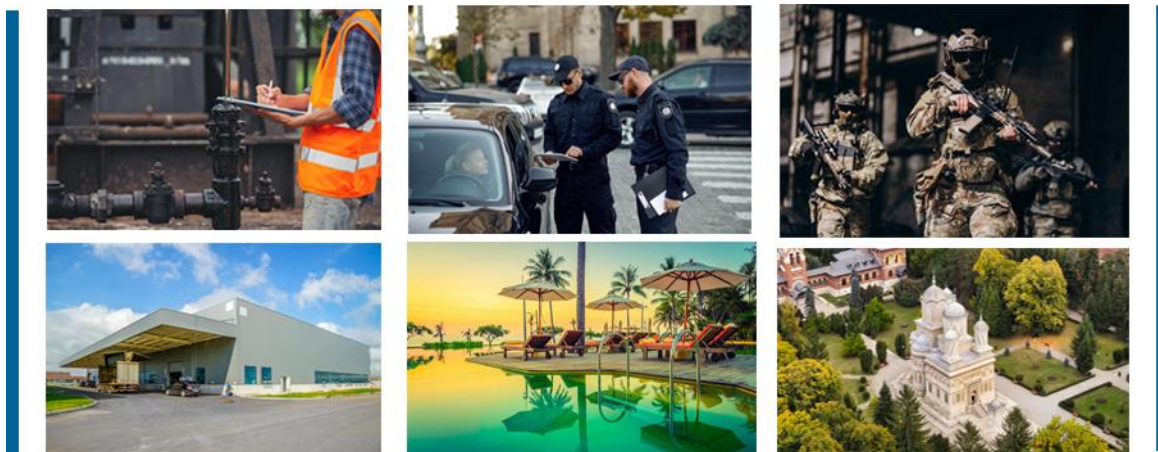
Key features of WVMS
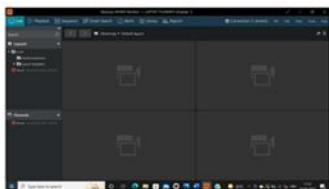
WVMS Professional - Monitoring Console

WVMS Enterprise – Wall & Redundancy

WVMS Facial Recognition Module

WVMS Video Content Analytics

WVMS License Plate Recognition

WVMS Mobile Application

Specification

CAMERA	
Model	IP-50301CPH
Image Sensor	SONY STARVIS EXMOR 1/2.8" 5.17 M CMOS
Effective Pixels	2608(H) X 1984(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	Auto
Minimum Illumination	COLOR: 0.13Lux
Lens	3.7mm (F2.5)
Angle of View	D : 115°, H : 87.6, V : 61.6°
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
Smart Capture Technology	WaveCapture: Smart Advanced Wide Dynamic Capture for high details in challenging conditions
S/N Ratio	50 dB

IR ILLUMINATOR	
Smart IR	-
IR Working Distance	-

VIDEO	
Video Compression	H.265, H.264, MJPEG
Profile	H.264 : MP / HP H.265 : MP
Multiple Profile Streaming Performance	2592x1944P/30 + CIF30 with H.264, H.265 + MJPEG
Max Resolution	2592x1944
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

AUDIO	
Audio Compression	-
Audio input / output	-

EVENT	
Event Trigger	Motion Alarm, Temperature critical, DI
Smart Edge Analytics*	WaveVCA: Intelligence built-in Cameras Analytics*(one channel selectable)
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Event Notification	FTP, E-mail, Alarm-out, SD card

NETWORK	
Ethernet Standard	10 / 100 / 1000Base-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	Plastic, White
External I/O Terminals	-
Housing Environmental Rating	-
NDAA	Compliant
Language on webpage	English
Power Source	DC12V, PoE(IEEE 802.3af)
Power Consumption	DC Max 4.1W PoE Max 5.8W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -20°C ~ 50°C (-22°F ~ 122°F)
Approvals	FCC, CE, RoHS,BIS
Weigh	0.4 g
Dimensions (D x H)	50.3 mm x 190 mm

EDGE STORAGE	
Storage	1x microSD / microSDHC / microSDXC (card not included)

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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

Enter Filter

3D Calibration

Tailgating Filter

Appear Filter

Counting

Exit Filter

Dwell Filter

Disappear Filter

Removed Object Filter

Stopped Filter

Direction Filter

Logical Rules

Abandoned Object Filter

Counting Lines

Forensic Search
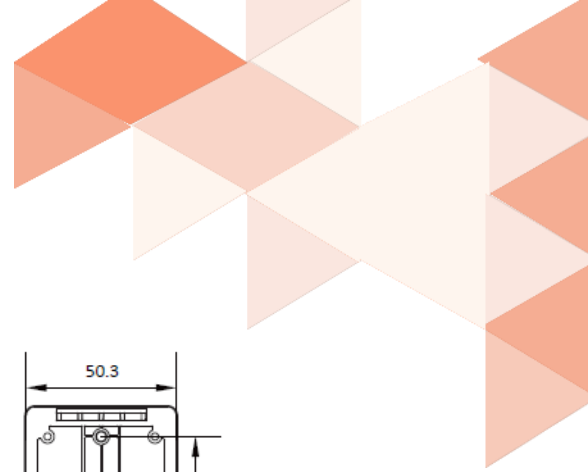
DL Object tracker

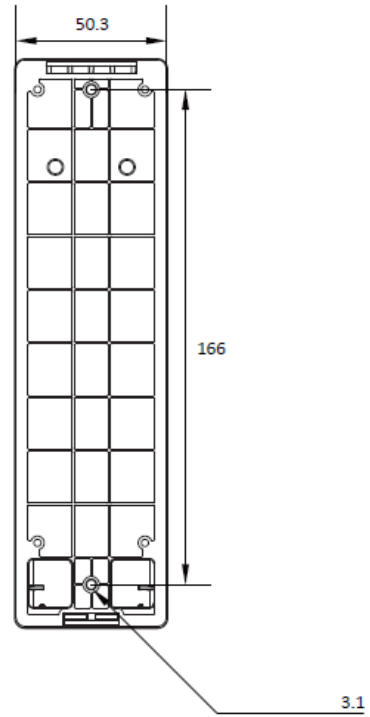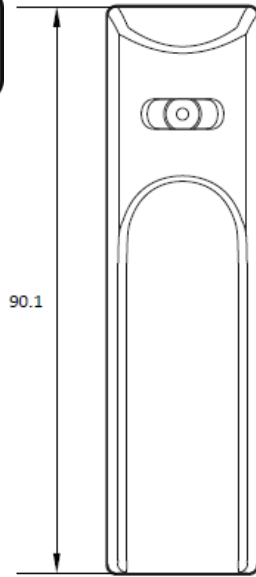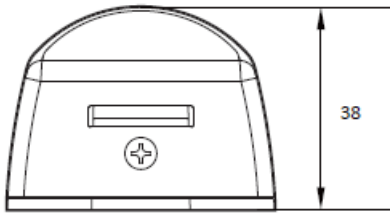DL People Tracker

Pose Detection

Optional features

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

Forensic Search

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Dimensions

ACCESSORIES