WAVESYS

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Intelligent Video
Analysis at Edge

IP-30 Camera Series

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STARVIS 2MP IR DOME IP CAMERA
IP-30203LDO

3 STANDARD +2 YEAR EXTENDED WARRANTY
3 YEAR WARRANTY

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.
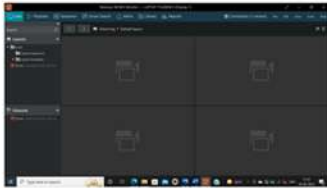
Key Features

- Full HD 1080p 30fps
- P Iris with Motorized Remote Zoom and Focus
- 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
- Embedded VCA Technology video analytics
- WaveStream: Smart Compression Technology based on bit rate Control, ROI

Application

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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- 30203LDO
Image Sensor	SONY STARVIS EXMOR 1/2.8" 5M 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, F1.4
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 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

IR LED	High Power IR LED x 2
IR Working Distance	80ft - 100ft Depending upon object size
Smart IR	WaveIR : Advanced smart IR

VIDEO

Video Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HPH. H.265: MP
Multiple Profile Streaming Performance	1080p30 + D1(704x480 or 704x576) p30 with H.264, H.265 + 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)
Audio Input	1[1.0Vms, 3K ohm]
Audio Output	1

EVENT

Event Trigger	Motion Alarm, Temperature critical, Network disconnection
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, SD card

NETWORK

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

Material	Aluminum Die-casting
External I/O Terminals	1 x Alarm In / 1 x Alarm Out
Housing Environmental Rating	IP66
Housing Impact Rating	IK10
Power Source	DC12V, PoE(IEEE 802.3af)
Power Consumption	DC12V Max 6.5W, PoE Max 8.5W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -20°C ~ 50°C (-4°F ~ 122°F)
Approvals	UL, FCC, CE, IP67,IK10
Weight	0.5 kg
Dimensions (D x W)	Ø125mm x 92mm

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 of an object

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

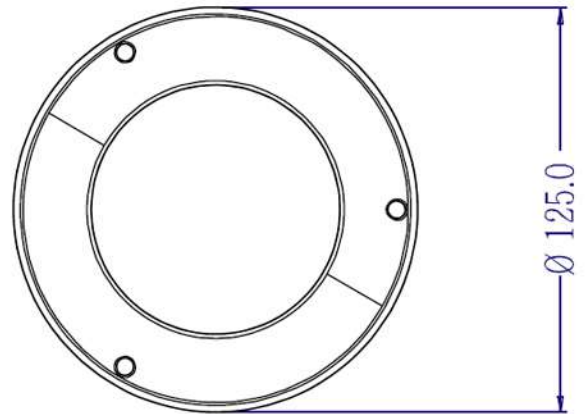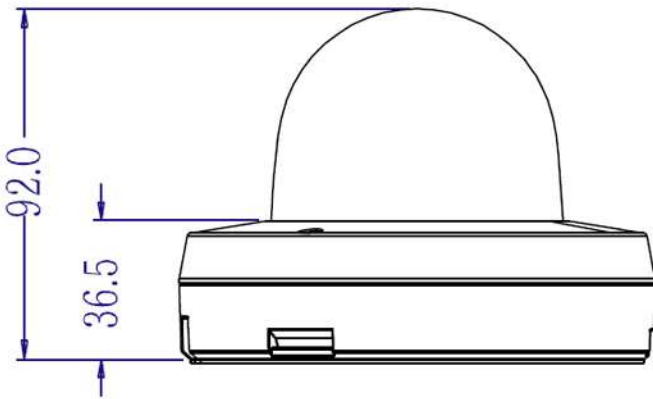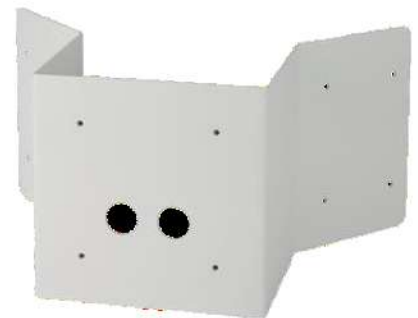| Enter Filter | 3D Calibration | Tailgating Filter |
Appear Filter	Counting	Exit Filter
Dwell Filter	Disappear Filter	Removed Object Filter
Stopped Filter	Direction Filter	Logical Rules
Abandoned Object Filter	Counting Lines	

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DIMENSIONS

92.0

36.5

Ø 125.0

ACCESSORIES

W-BW10

W-BC10

W-BP04

W-BCO04