**Technical Specifications**

# 5MP Flashlight Full Color Turret AI IP Camera
## FOR EXTERNAL APPLICATION

- 30fps at 5MP
- H.265, H.264 and MJPEG compression
- Embedded VCA Technology Video Analytics
- Deep Learning - Object Tracker/People Tracker
- 24/7 Full Color with Warm white LED
- Flashlight/Siren for event notification

ONVIF® | S

## CAMERA

| | |
|---|---|
| Model | IPAi375-MCA |
| Image Sensor | SONY STARVIS EXMOR 1/2.8" 5M CMOS |
| Effective Pixels | 2592(H) x 1944(V) |
| Scanning System | Progressive scanning |
| AGC Control | Auto |
| IRIS Type | P-IRIS |
| Minimum Illumination | 0Lux with Warm white LED |
| Lens | 2.7 ~ 12mm, F1.2 |
| Angle of View | Horizontal: Approx. 89.9° (Wide) to 31.5° (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 | Day(Color) mode only |
| Wide Dynamic Range | True WDR |
| S/N Ratio | 50 dB |

## ILLUMINATOR

| | |
|---|---|
| Warm White LED | 2 |
| White LED Distance | 20m |

## VIDEO

| | |
|---|---|
| Video Compression | H.265, H.264, MJPEG |
| Profile | H.264 : MP / HP<br>H.265 : MP |
| Multiple Profile Streaming Performance | 2592x1944/30 + 720p30 with H.264,H265 + MJPEG |
| Max Resolution | 2592 x 1944 |
| Video Bit Rate | 100Kbps ~ 10Mbps<br>Multi-rate for Preview and Recording |
| Bitrate Control | Multi Streaming CBR/VBR<br>(Controllable frame rate and Bandwidth) |
| Digital Noise Reduction | 3D-DNR |
| Privacy Mask | 16 programmable zones |
| Special Features | SMART Bitrate Control, Region of Interest |
| Other Image Processing | Configurable Exposure, White Balance, Sharpness |
| Image Orientation | Flip / Mirror / Corridor Mode |
| Analogue Output | 1 (Installation only)<br>CVBS 1.0V p-p (75Ω), 4:3 aspect ratio |

## AUDIO

| | |
|---|---|
| Audio Streaming | Two way |
| Audio Compression | G.711 u-law 8KHz, AAC-LC 48Kbps at 8KHz |
| Audio input | Built-in Mic, Supply voltage : 2.4VDC(3mA), Input impedance : 3K Ohm |
| Audio output | Built-in Speaker |

## EVENT

| | |
|---|---|
| Event Trigger | Motion Alarm, Temperature critical, DI |
| Pre-Post Recording | Pre: 1~5 sec<br>Post: 1~240 sec |
| Event Notification | FTP, E-mail, Alarm-out, Flashlight, Siren, SD card |

## NETWORK

| | |
|---|---|
| Ethernet Standard | 10 /100Base-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 | 1 x Alarm In / 1 x Alarm Out |
| Language on webpage | English |
| Power Source | DC12V, PoE(IEEE 802.3af) |
| Power Consumption | TBD |
| Operating Conditions | Humidity 10 ~ 90% RH (non-condensing)<br>[DC12V / PoE] -30°C ~ 50°C (-22°F ~ 122°F) |
| Approvals | FCC, CE, IP67, IK10 |
| NDAA | Compliant |
| Weight | 0.88 kg |
| Dimensions (D x H) | Ø125 x 122 mm |

## EDGE STORAGE

| | |
|---|---|
| Storage | 1x microSD / microSDHC / microSDXC<br>(card not included) |

# VIDEO ANALYTICS

## Features

**Analytics Engine** VCA Technology's advanced tracking algorithm with rich library of detection behaviors

**Detection Zones and Rules** 40 rules & zones (Multi-segment Polygons and Lines) as standard

**Intrusion Detection** Detection of the presence of an object

**Tamper Detection** Supported as standard

**Detection Behavior** Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter, Abandoned/Removed object filter, Tailgating, Color Filter

**Logical Rules** Extends standard rules to allow various combinations of the inputs

**Deep Learning Object Tracking** Deep learning based object identification (as Person, Cyclist, Car, Van, Truck, Motorcycle, Bicycle, Bag) removes false object detection

**Deep Learning People Tracking** Deep learning based people identification and tracking

**Counting & Line** High accuracy people and vehicle counting, 20 counters in total

**Meta Data** JSON format, Plain XML format that contains the event information and the tracked object information with the bounding box, tail history, object attributions (object type and color)

| Intrusion Detection | Zones & lines | Tamper Detection | |
| --- | --- | --- | --- |
| Appear Filter | Disappear Filter | Dwell Filter | Enter Filter |
| Exit Filter | Stopped Filter | Counting | Counting Lines |
| Object Color | Direction Filter | Logical Rules | Tailgating Filter |
| Metadata | DL People Tracker | DL Object Tracker | |

**Technical Specifications**

## Dimensions

(Unit: mm)
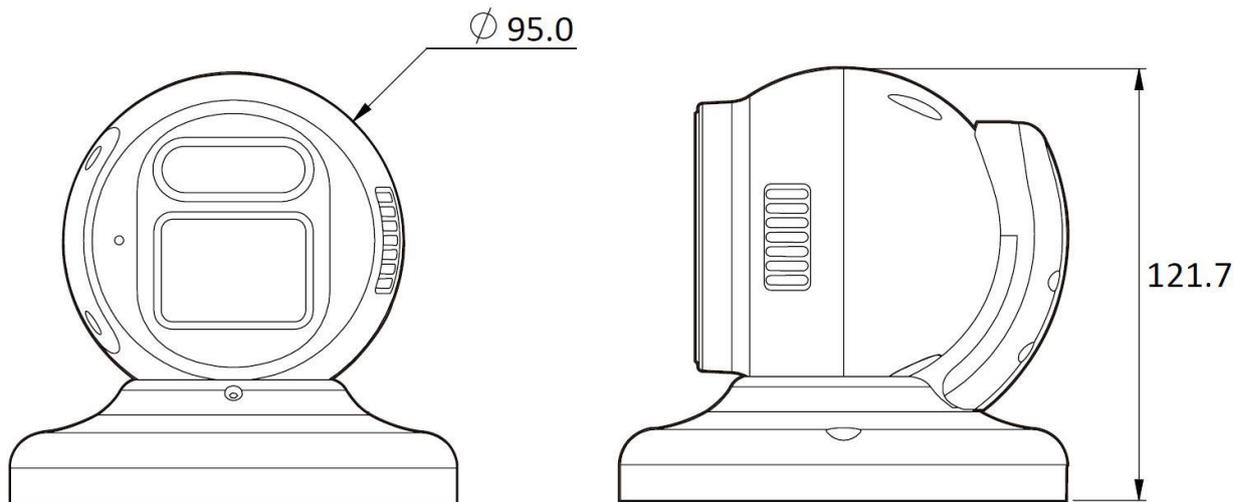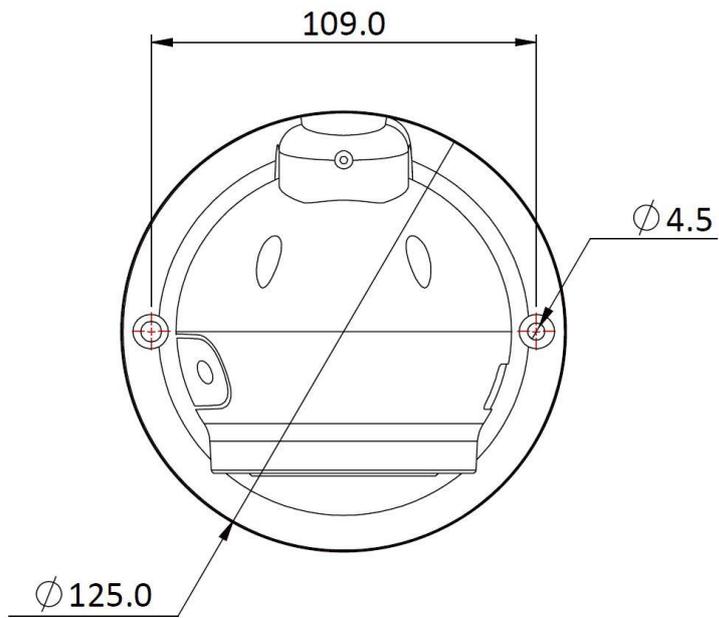
## Accessories

**BW10**

**BC10**

**BP01**

**BCO01**