

TDOEIA4302SA-AI

4MP WDR IR Eyeball Network



Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, TOUGHDOG smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

TOUGHDOG adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/PoE power support
- IP67 protection













Starlight

TOUGHDOG Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the envi-ronment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, TOUGHDOG camera supports intelligent detection, such as tripwire and intrusion and so on.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

TDOEIA4302SA-AI



| Technical | Specificatio | n | | | | | 2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × |
|--|--------------|---|--|----------------------|---|-------------------------|--|
| Camera Image Sensor 1/3" 4Megapixel progressive CMOS | | | | Resolution | 1440), 2304 × 1230 (2304 × 1230), 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) | | |
| Image Sensor | | | | live CiviO3 | | Dit Data Cantual | |
| Effective Pixe | els | 2688 (H) × 1 | .520 (V) | | | Bit Rate Control | CBR/VBR |
| ROM | | 128 MB | | | | Video Bit Rate | H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps |
| RAM | | 128 MB | | | | Day/Night | Auto(ICR)/Color/B/W |
| Scanning Syst | tem | Progressive | | | | BLC | Yes |
| Electronic Sh | utter Speed | Auto/Manua | al 1/3 s–1/100 | 0000 s | | HLC | Yes |
| Min. Illumina | tion | 0.008 Lux @ | F1.6 | | | WDR | 120 dB |
| IR Distance | | 30 m (98.43 | ft) | | | White Balance | Auto/natural/street lamp/outdoor/manual/regional custom |
| IR On/Off Co | ntrol | Auto/Manua | al | | | Gain Control | Auto/Manual |
| IR LEDs Numb | per | 2 | | | | Noise Reduction | 3D DNR |
| Pan/Tilt/Rota | ation Range | Pan: 0°–360 Tilt: 0°–78° | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| | | Rotation: 0° | –360° | | | Region of Interest(RoI) | Yes (4 areas) |
| Lens | | e: 16 1 | | | | , , | |
| Lens Type | | Fixed-focal | | | | Smart IR | Yes |
| Mount Type | | M12 | | | | Image Rotation | 0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.) |
| Focal Length | | 2.8 mm | | | | Mirror | Yes |
| Max. Apertur | e | F1.6 | | | | Privacy Masking | 4 areas |
| | | 2.8 mm: | | | | Audio | |
| Field of View | | Pan: 102.0° Tilt: 55.0° | | | | Built-in MIC | Yes |
| | | Diagonal: 12 | 21.0° | | | Audio Compression | G.711A; G.711Mu; G.726; AAC |
| | | | | | | Network | |
| Iris Type | | Fixed apertu | ure | | | Network | RJ-45 (10/100 Base-T) |
| Close Focus Distance Lens | | 2.8 mm: 0.9 Detect | 2.8 mm: 0.9 m (2.95 ft) Detect Observe Recognize Identify | | | Protocol | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE 802.1x; Bonjour |
| Distance | 2.8 mm | 56 m (183.73 ft) | 22.4 m (73.49 ft) | 11.2 m (36.75 ft) | 5.6 m (18.37 ft) | Interoperability | ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec |
| Smart eve | nt | | | | | User/Host | 20 |
| General IVS Analytics | | Tripwire; int | rusion | | | Edge Storage | TOUGHDOG Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS |
| Video | | | | | | | IE |
| Video Compression | | H.265; H.26 | 4; H.264B; MJ | PEG | | Browser | Chrome Firefox |
| Smart Codec | | Yes | | | | Management Software | TD-SMS; DSS; ToughDog Viewer Pro |
| Video Frame Rate | | Main stream | n: | | | Mobile Phone | IOS; Android |
| | | 2688 × 1520 | n. D (1 fps-20 fps) D (1 fps-25/30 | | | Certification | |
| | | Sub stream: 704 × 576 (1 704 × 480 (1 | L fps-25 fps) | (c4) | | Certifications | CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU |
| Stream Capability | | 2 streams | | | | | FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |

TD0EIA4302SA-AI



Power

| Power Supply | 12V DC/PoE (802.3af) |
|-------------------|----------------------|
| Power Consumption | < 6.6W |

Environment

| Operating Conditions | -40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH | |
|----------------------|---|--|
| Storage Temperature | -40°C to +60°C (-40°F to +140°F) | |
| Protection | IP67 | |

Structure

| Casing | Metal + Plastic |
|--------------|------------------|
| Dimensions | (3.97" × Ф4.33") |
| Net Weight | 0.39 kg (0.9 lb) |
| Gross Weight | 0.56 kg (1.2 lb) |

| Ordering | Information |
|----------|-------------|
| | |

| Туре | Part Number | Description |
|------------------------|-------------|--------------|
| | PFA130-E | Junction Box |
| Accessories (optional) | PFB204W | Wall Mount |
| | PFA152-E | Pole Mount |

Accessories

Optional:



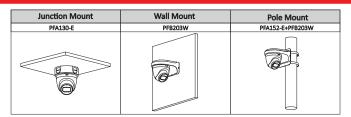




PFB204W Wall Mount



PFA152-E Pole Mount



Dimensions (mm[inch])

