**ONVIF**

## Functions

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

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

### Intelligent Video analysis (IVS)
With advanced video algorithm, Dahua 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.

| Camera | |
|---|---|
| Image Sensor | 1/2.7"2Megapixel progressive CMOS |
| Effective Pixels | 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100000 s |
| Min. Illumination | 0.005 Lux @ F1.6 |
| IR Distance | 30 m (98.43 ft) |
| IR On/Off Control | Auto/Manual |
| IR LEDs Number | 2 |
| Pan/Tilt/Rotation Range | Horizonal: 0°–360° |
| | Vertical: 0°–78° |
| | Rotation: 0°–360° |

| Lens | | | | |
|---|---|---|---|---|
| Lens Type | Fixed | | | |
| Mount Type | M12 | | | |
| Focal Length | 2.8 mm | | | |
| Max. Aperture | F1.6 | | | |
| Field of View | Horizontal: 110.0° | | | |
| | Vertical: 59.0° | | | |
| | Diagonal: 132.0° | | | |
| Iris Type | Fixed Aperture | | | |
| Close Focus Distance | 0.6 m ( 1.97 ft ) | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | 2.8 mm | 37.3 m (122.38 ft) | 14.9 m (48.88 ft) | 7.5 m (24.61 ft) | 3.7 m (12.14 ft) |

| Smart event | |
|---|---|
| General IVS Analytics | Intrusion; Tripwire |

| Video | |
|---|---|
| Video Compression | H.265; H.264; H.264B; MJPEG |
| Smart Codec | Yes |
| Video Frame Rate | Main Stream: 1920 × 1080 (1 fps-25/30 fps) |
| | 1920 × 1080 (1 fps-25/30 fps) |
| | Sub Stream: 704 × 576 (1 fps-25fps), 704 × 480 (1 fps-30fps) |
| Stream Capability | 2 Streams |
| Resolution | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 32 Kbps–6144 Kbps |
| | H.265: 12 Kbps–6144 Kbps |
| Day/Night | Auto(ICR)/Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | DWDR |
| White Balance | Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | OFF/ON (4 Areas, Rectangular) |
| Region of Interest(RoI) | Yes (4 Areas) |
| Smart IR | Yes |

| Video | |
|---|---|
| Image Rotation | 0°/90°/180°/270° (Supports 90°/270° with 1080p Resolution.) |
| Mirror | Yes |
| Privacy Masking | 4 Areas |
| **Audio** | |
| Built-in Mic | Yes |
| Audio Compression | G.711A; G.711Mu; G.726; AAC |
| **Network** | |
| Network | RJ-45 (10/100 Base-T) |
| 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 |
| Interoperability | ONVIF(Profile S/Profile G); CGI; P2P; Milestone; Genetec |
| User/Host | 20 |
| Edge Storage | Cloud; FTP; SFTP; Micro SD Card (Support Max. 256 GB); NAS |
| Browser | IE |
| | Chrome |
| | Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Phone | IOS; Android |
| **Power** | |
| Power Supply | 12V DC/PoE (802.3af) |
| Power Consumption | < 5.9W |
| **Environment** | |
| Operating Conditions | -40°C to +60°C (-40°F to +140°F)/less than ≤ 95% |
| Storage Temperature | -40°C to +60°C (-40°F to +140°F) |
| Protection | IP67 |
| **Structure** | |
| Casing | Metal + Plastic |
| Dimensions | 100.9 mm × Φ109.9 mm (4.0" × Φ4.3") |
| Net Weight | 0.39 kg (0.9 lb) |
| Gross Weight | 0.56 kg (1.2 lb) |

## Dimensions (mm)