# DIREKTRONIK

## Thermal Imaging Camera



## Key Features

- On-board temp-detection algorithm

- Effective pixels 256×192

- Sensitivity ≤65mK

- Wide-angle lens

- 20 spots / 2 lines / 16 areas temperature detection

- 17 color control

- DVE image enhance

# Specification

## Thermal Camera

| | |
|---|---|
| Detector Type | Uncooled IRFPA Microbolometer |
| Effective Pixels | 256(H) ×192(V) |
| Thermal Sensitivity (NETD) | ≤65mK @F1.0, 300K |
| Spectral Range | 8~14um |
| Image Setting | Polarity LUT/ DVE/ Mirror/ FCC/ /3D DNR Brightness/Contrast/ ROI |
| Color Palettes | Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes |
| Lens Type | Fixed |
| Focus Control | Manual Focus |
| F No. | F1.0 |
| Angle of View | H: 95°, V:75° |

## Visible Camera

| | |
|---|---|
| Image Sensor | 1/2.8" Sony CMOS |
| Effective Resolution | 1920 (H)×1080(V) |
| Shutter Speed | 1/5 ~ 1/20,000s |
| Min. Illumination | Color: 0.01Lux @(F1.2, AGC ON), B/W: 0.1Lux |
| S/N Ratio | More than 55dB |
| W-LED | 1pcs |
| Max Aperture | F2.0 |
| Angle of View | H: 136.2°, V: 77.3° |
| Focus Control | Fixed |

## Video and Audio

| | |
|---|---|
| Compression | H.265, H.264, MJPEG |
| Frame Rate | Main Stream: Thermal: D1 @25/30fps Visible: 1920×1080 @25/30fps Sub Stream: Thermal: CIF @25/30fps Visible: D1/VGA/640×360/CIF/QCIF/QVGA @25/30fps |
| Bit Rate Control | CBR/VBR |
| Bit Rate | Thermal: 100Kbps~6Mbps Visible: main stream: 500Kbps~12Mbps; sub stream: 100Kbps~6Kbps |
| Digital Zoom | 16x |
| Mirror | Support |
| Defog | Support |
| Motion Detection | Support |
| Privacy Masking | Off / On (4 Area, Rectangle) |
| DVE Image Enhance | Support |
| Audio Compression | G.711, AMR, RAW_PCM (Optional) |

## Intelligence

| | |
|---|---|
| Intelligent Functions | Motion detection, Disk alarm, I/O alarm, Temperature alarm |
| IVS | Perimeter, Single Virtual Fences, Double Virtual Fences, Object Left, Object Removed |

## Temperature  Detection

| | |
|---|---|
| Detection Mode | Spot, Line, Area |
| Detection Preset | Support 3 temperature measurement rule types, 20 rules (20 points / 2 lines / 16 regions ) |
| Temperature Alarm | Over temperature alarm, Temperature difference alarm |
| Accuracy | ±2℃ / ±2% |
| Response Time | ≤30ms |
| Effective temperature working environment | -20°C~60°C(-4°F~140°F) |
| Theory of temperature measurement range | -20°C~150°C(-4°F~302°F) |
| Temperature display mode | Temperature target ＞5℃, Display absolute temperature value, Temperature target ≤5℃, Display relative temperature value (temperature difference DEV = highest value - average) |

## Network

| | |
|---|---|
| Ethernet | RJ-45 (10/100Base-T) |
| Protocols: | IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP |
| Interoperability | ONVIF, CGI, SDK |
| Streaming Method | Unicast |
| Max. User Access | 10 Users |
| Edge Storage | NAS Local PC for instant recording Micro SD card 128GB |
| Web Viewer | <IE11, Chrome, Firefox |
| Web Language | English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian |

## Interface

| | |
|---|---|
| Ethernet | 1 Ethernet (10/100 Base-T) RJ-45 Connector |
| Audio | N/A |
| Alarm | 1ch Alarm Input, 1ch Alarm Output |
| RS485 | Support |
| CVBS Output | Support |
| Reset Button | Support(Built-in) |

## General

| | |
|---|---|
| Power Supply | DC12V |
| Power Consumption | Max 10W |
| Operating Temperature | -20°C~60°C(-4°F~140°F) |
| Storage Conditions | 0~ 90% RH |
| Certifications | CE /FCC |
| Ingress Protection | IP66 |
| Casing | Metal |
| Dimensions | 65×45×96mm |
| Net Weight | 450g |