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Facilities that house and process energy, oil, precious materials, telecommunications, and other critical infrastructure assets require continuous, reliable video surveillance. These sites need 24/7 protection regardless of poor lighting or weather conditions.



Traditionally, thermal cameras have helped to provide additional details for detection purposes, but other standalone CCTV cameras have always been required for visual footage. This setup has created higher total costs for installation, maintenance, and operations.

Hikvision's innovative dual lens thermal cameras combine thermal imaging with visual imaging. Equipped with onboard video analytics, the high-quality thermal imager thrives in long-range object detection regardless of harsh air conditions or total darkness environments. The visual imager captures vivid, high-resolution HD video of any moving objects and offers more details for post-event investigations.

Thermal Imager



- VOX Uncooled Detector
- 384x288 resolution
- Up to 25/30fps
- 25mm/50mm fixed lens
- Vehicle detection distance of up to 3067 meters (50mm lens)
- Human detection distance of up to 1000 meters (50mm lens)

Visual Imager



- 1/3" CMOS sensor (PTZ)
- 1/1.8" CMOS sensor (Bullet)
- 1920x1080 resolution
- Up to 25/30fps
- 4.3~129mm Vari-focal lens (PTZ)
- 23/40mm lens (Bullet)
- IR range up to 150 meters (PTZ)/120 meters (Bullet)



DS-2TD4035D



Thermal Imager:

- VOX Uncooled focal plane detector
- Main stream: 25/30fps at 384 x 288 resolution
- Sub stream: 25/30fps at 384 x 288 resolution
- NETD < 50mk
- 25mm lens, FoV: 21.7° or 50mm lens, FoV: 11°
- Smart Tracking: Panorama tracking, Event tracking, Multi-scene Patrolling
- Smart Detection: Intrusion detection, Line Crossing detection, Region Entering/Exit detection, Audio Exception detection, Hot Spot detection.

Visual Imager:

- 1/3" progressive scan CMOS
- Main stream: 25/30fps at 1920 x 1080 resolution
- Sub stream: 25/30fps at 704 x 576/480 resolution
- High-performance IR arrays, up to 150m IR range
- Pan: 360° endless; tilt: -15° ~ 90°
- 4.3 ~ 129mm lens, 30x optical zoom, 16x digital zoom
- · Auto focus, WDR, 3D DNR, Defog, HLC, EIS
- ROI (Region of Interest) codec

General SMART • Supp

Tracking

- Support on-board storage, Micro SD/SDHC/SDXC (card no included)
- Audio I/O: 1/1; Alarm I/O: 7/2
- · Support analog signal output
- IP66 protection, built-in heater
- AC24V, max 50W
- -40 °C ~ 65 °C working temperature

DS-2TD2235D



Thermal Imager:

- VOX Uncooled focal plane detector
- Main stream: 25/30fps at 384 x 288 resolution
- Sub stream: 25/30fps at 384 x 288 resolution
- NETD < 50mk
- 25mm lens, FoV: 21.7 $^{\circ}$ or 50mm lens, FoV: 11 $^{\circ}$
- Smart Detection: Intrusion detection, Line Crossing detection, Region Entering/Exit detection, Audio Exception detection, Hot Spot detection.

Visual Imager:

- 1/1.8" progressive scan CMOS
- Darkfighter Ultra low light
- Main stream: 25/30fps at 1920 x 1080 resolution
- Sub stream: 25/30fps at 704 x 576/480 resolution
- · High-performance IR arrays, up to 120m IR range
- 23mm/40mm fixed lens
- WDR, 3D DNR
- ROI (Region of Interest) codec

120dB WDR

General

- Support on-board storage, Micro SD/SDHC/SDXC (card no included)
- Audio I/O: 1/1; Alarm I/O: 1/1
- Support analog signal output
- IP66 protection, built-in heater
- AC24V, max 40W
- -40 °C ~ 65 °C working temperature



DS-2TD2035-HZ



Thermal Imager:

- VOX Uncooled focal plane detector
- Main stream: 25/30fps at 384 x 288 resolution
- Sub stream: 25/30fps at 384 x 288 resolution
- NETD < 50mk
- 9.6mm/25mm/40mm/75mm fixed lens
- Smart Detection: Intrusion detection, Line Crossing detection, Region Entering/Exit detection, Audio Exception detection, Hot Spot detection.

General

- Support on-board storage, Micro SD/SDHC/SDXC (card no included)
- Audio I/O: 1/1; Alarm I/O: 3/3
- Support analog signal output
- IP66 protection *external housing required
- AC24V, max 40W
- -30 °C ~ 60 °C working temperature

Detection Range



Focal Length	9.6mm	25mm	40mm	50mm	75mm
Horizontal FoV	60.2°	21.7°	15.6°	11°	7.3°
Human Detection	192m	500m	800m	1,000m	1,500m
Human Recognition	48m	125m	200m	250m	375m
Human Identification	24m	63m	100m	125m	188m
Vehicle Detection	589m	1,533m	2,453m	3,067m	4,600m
Vehicle Recognition	147m	383m	613m	767m	1,150m
Vehicle Identification	74m	192m	307m	383m	575m

This recommended range table is according to Johnson's criteria and for reference only. The actual performance ranges
may vary based on different weather conditions.

Johnson's criteria:

Human detection: 4 pixels/m; human recognition: 16 pixels/m; human identification: 26 pixels/m. Vehicle detection: 2 pixels/m; human recognition: 8 pixels/m; human identification: 14 pixels/m.

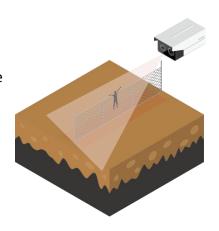


Perimeter Protection

- Increases physical protection around the perimeter
- · Decreases human patrolling
- Effective in dimly lit and total darkness environments

Applications:

Power plants, petrochemical/oil utilities, ports, prisons, etc.

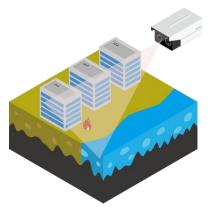


Border Protection

- Detects intruders from long distances
- Auto-detects fires
- Triggers alarms for prompt response
- · Effective in harsh weather conditions

Applications:

Maritime, border patrol, etc.



High-value Area Protection

- Effectively detects intruders
- · No light pollution
- · Avoids false alarms

Applications:

Parking lots, car dealerships, precious materials warehouses, etc.



Fire Hazard Detection

- Detects fumes or flames in wide areas
- Triggers alarm for prompt response
- Helps to pinpoint fire origin
- Increase efficiency for firefighters

Applications:

Forest protection, amusement parks, etc.

