See the unseen with thermal cameras

In challenging weather (fog, smoke, rain) or lighting conditions (complete darkness, backlight), it can be difficult to distinguish people or objects in a complex background by a visible camera or the human eye.

For accurate monitoring purposes, a professional surveillance system is required. Wisenet thermal cameras are the excellent choice : they provide high contrast images based on temperature differences between the object and background, so that users can detect incidents more easily. The advanced thermal imaging technology provides high contrast to make the unseen details visible without additional lighting.

Enhanced video & audio analytics

Wisenet T thermal cameras offer reliable video and audio analytics for efficient monitoring. The featured analytics improve the overall security system's efficiency by automatically notifying users when abnormal behaviour is detected

Temperature change detection

Drastic temperature changes can be detected in advance to prevent incidents occurring.
(20/40/60/80/100°C difference from current temperature)

* An alarm will be sent when a drastic temperature change is detected for a duration of 2 minutes.

Virtual line

Alarm events are automatically triggered when the camera detects the moving object crossing the virtual line.

Motion Detection

An alarm is triggered when movement is detected within the defined user area.

Shock detection

Shock detection protects the camera when events such as vibrations, quivers and shocks occur.

Secure a wide variety of applications

when monitoring applications where there is very little light, due to their ability to create images based on heat. Thermal cameras are especially applicable in manufacturing and industrial facilities, air and seaports, and mining areas.

※ Industrial facilities
※ Sea port
※ Mining areas
※ City surveillance
※ Power plants
※ Bridges
※ Dams
※ Pipelines
※ Border security
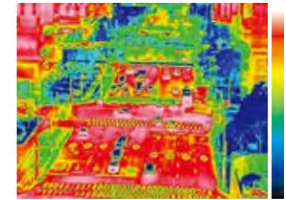※ Warehouse

Multiple colour palettes

Wisenet thermal cameras provide seven different types of colour palette for users to select the best image in various situations. Each colour palette has a specific set of colours which change according to the temperature range of the scene.
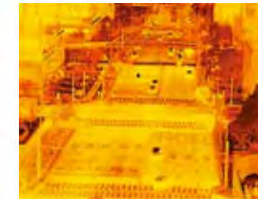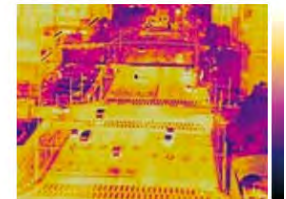

White hot

Black hot
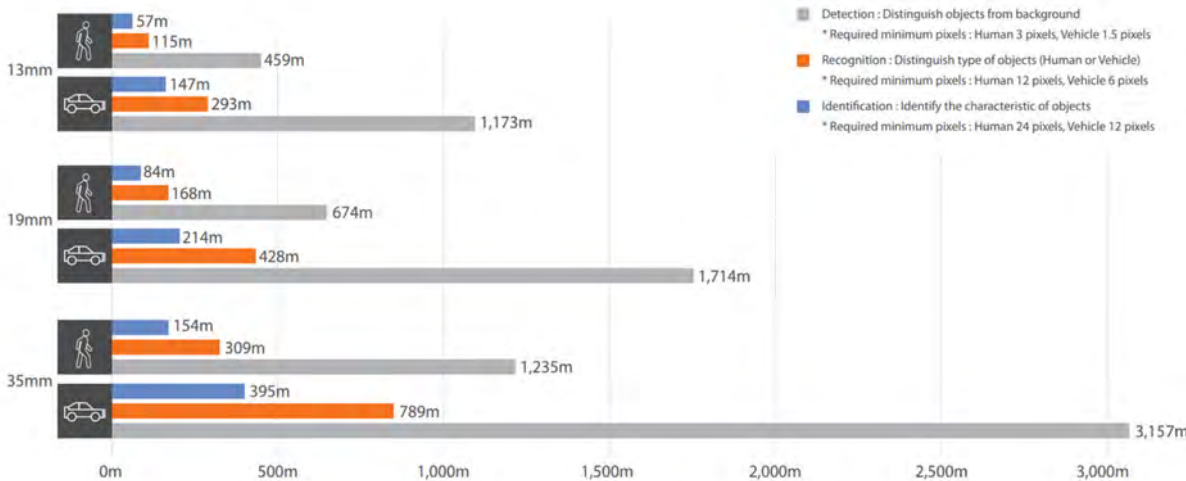

Rainbow

Custom

Sepia

Red

Iron

TNO-4051T/4041T

TNO-4050T/4040T/4030T

Long detection range up to 3,157m

The main task of the thermal camera is to detect events that occur at long distances. Wisenet thermal cameras are equipped with a 35/19/13mm lens(Horizontal FoV 17˚/32˚/49˚) to detect vehicles up to 3,157m away. The camera provides an image with high colour contrast according to the temperature, so it can easily distinguish objects and background from a long distance. At closer range it can recognise the type of object or identify the characteristic by capturing details.

Detection : Distinguish objects from background
* Required minimum pixels : Human 3 pixels, Vehicle 1.5 pixels

Recognition : Distinguish type of objects (Human or Vehicle)
* Required minimum pixels : Human 12 pixels, Vehicle 6 pixels

Identification : Identify the characteristic of objects
* Required minimum pixels : Human 24 pixels, Vehicle 12 pixels

13mm — Human: 57m / 115m / 459m; Vehicle: 147m / 293m / 1,173m

19mm — Human: 84m / 168m / 674m; Vehicle: 214m / 428m / 1,714m

35mm — Human: 154m / 309m / 1,235m; Vehicle: 395m / 789m / 3,157m

* The height of the human is 1.8m(5.9ft) and vehicle is 2.3m(7.5ft)

VGA Thermal Cameras

TNO-5051T

TNO-4050T

TNO-4041T

TNO-4040T

ATEX cameras for hazardous environments

Heavy industrial facilities such as gas pipelines, petrochemical plants or oil refineries are potentially explosive because of flammable gases and dusts emitted. Therefore, it is important that a video surveillance system used in heavy industrial facilities is safe and does not cause an explosion, whilst still delivering high quality images. Wisenet T series ATEX cameras satisfy both requirements thanks to the powerful network camera and stainless steel housing enclosure surrounding it.
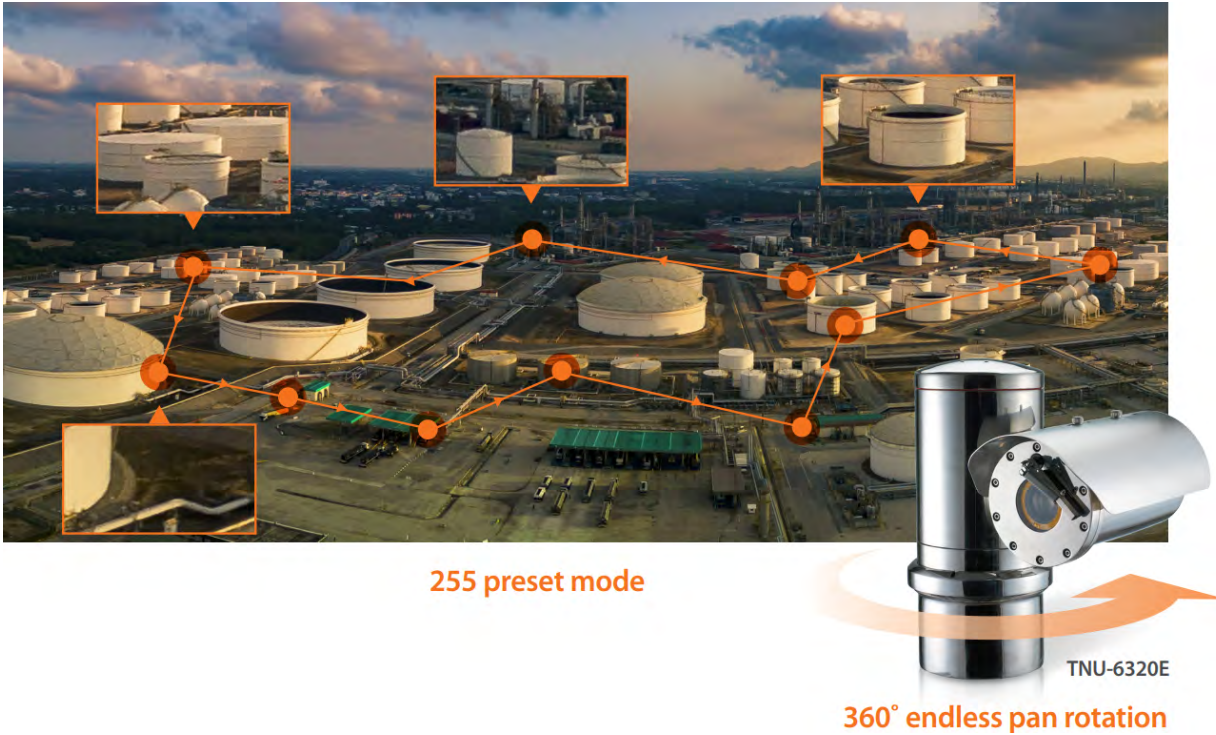
360° endless pan rotation and 255 preset mode

255 preset mode

360° endless pan rotation

TNU-6320E

TNU-6320E is capable of monitoring a broad range, with its 360° endless pan and 180° tilt feature moving a 1~50° /sec preset speed. In addition, the camera's flexibility is increased by 255 preset positions, allowing users to save settings for pan/tilt functions and automatically view the location desired.

Stainless steel 316L enclosure to prevent explosions

T series ATEX cameras are designed to be safely operated in hazardous areas with a special enclosure made of stainless steel 316L housing. The ATEX certified enclosure has the ability to contain any internal explosions or prevent sparks from escaping the device which may lead to a disaster.

ATEX

WISENET

Explosion Proof Cameras

TNO-6320E

TNU-6320E