

## Features

- Integrated Thermal IP camera
- Built-in Perimeter Intrusion Detection
- Based on analytics certified by i-LIDS® for primary sensor in sterile zone
- ONVIF Profile S conformant
- Video resolution: 336x256
- Robust aluminium housing (IP66)
- Fully digital



## TC620-PID

### Outdoor thermal IP camera with Perimeter Intrusion Detection

#### Description

The Siqura TC620-PID is in itself a complete solution for perimeter intrusion detection. It is built around a thermal LWIR sensor and on-board analytics for accurate detection of unwanted intrusions. By using thermal vision, detection is possible in all weather, no-light, and difficult lighting conditions. The TC620-PID comes as an outdoor camera (IP66).

#### Intrusion detection

The embedded ObjectR-Advanced PID is based on analytics certified by i-LIDS® and approved to be used as primary sensor in a sterile zone. Through the web interface, configuration of the ObjectR-Advanced PID analytics is straightforward with either two detection lines or two detection zones. To get the most out of the PID analytics Siqura offers the VCA Configuration Server. By using a thermal sensor the influence of external factors is limited to a minimum.

#### Decision making and situational awareness

Do you often feel that you have lost control? This occurs when – in a mission-critical environment where split-second decision making is crucial – you expect something to happen but it does not. Your expectations are based on all the data that is presented to you and its history. To make the right decision you need to be aware of the environment around you and have access to information relevant only for that specific situation – not the enormous amount of useless data you get when watching 24 CCTV monitors simultaneously, for example. The TC620-PID extracts useful information from the scene and presents it in the video image itself to a video management system, such as VDG Sense.

#### VDG Sense

The Siqura TC620-PID works seamlessly with the VDG Sense video management system. It supports forensic search by storing the PID object data next to the video. The PID events are triggers to the powerful VDG Sense macro engine, which enables you to define how the system should react during certain events. You can set macros to have VDG Sense automatically pop up a camera to inform the operator of an intrusion alert.

#### VCA Configuration Server (VCS)

ObjectR-Advanced PID detection analytics physically runs in the Siqura edge devices. This detection engine, however, is much more powerful when configured by the Siqura VCA Configuration Server. The configuration server adds more detection templates, such as eight zones or lines. The VCS is capable of storing up to 64 channels of video and object data. Forensic searches are done using the stored object data which speeds up the search up to 10,000 times faster than real-time. This feature is also used to find the best configuration for a camera using the real footage. This configuration is uploaded in the TC620-PID, with the best performance and reliability for the perimeter intrusion detection.

#### Thermal imaging

It is possible to use standard CCTV cameras for video analytics but it requires experience and knowledge of the analytics to position them. All sorts of distractions, such as headlights of a car, can cause false alerts. In certain situations, image clarity is compromised when using visible light cameras, which may result in degraded automatic intruder detection.



Headlights



Sun in lens



Streetlights

Lighting conditions do not pose any problems for the TC620-PID thermal camera. It does not 'see' shadows and light beams. It picks up the heat (deep infrared) radiated by the objects themselves.

### Field-hardened

The ruggedised and vandal-resistant die-cast aluminium housing has an IP66 ingress rating to ensure optimal protection in harsh environments.

### Export restrictions

Note that thermal cameras are export-restricted. Cameras with a frame rate less than 9 Hz (-S versions) cannot be exported to Cuba, Iran, North Korea, Sudan, and Syria. Full frame rate cameras (-F versions) are export-controlled and need an export licence. No thermal camera can be used to design, develop or produce weapons.

### Fully digital

To provide the best possible image, the TC620-PID makes use of the digital output of the thermal core. From sensor to encoding, the TC620-PID is fully digital.

## Technical Specifications



# Technical Specifications

## TC620-PID

### Camera

Imager	Uncooled microbolometer								
Pixel pitch	17 µm								
Resolution	336x256 pixels								
Focal length	7.5 mm	9 mm	13 mm	19 mm	25 mm	35 mm	50 mm	60 mm	
Field of view	45°x35°	35°x27°	25°x19°	17°x13°	13°x10°	9.3°x7.1°	6.5°x5°	5.5°x4.2°	
f-number	f/1.4	f/1.25	f/1.25	f/1.25	f/1.1	f/1.2	f/1.2	f/1.25	
Spectral bandwidth	7.5 µm to 13.5 µm								
Frame rate									
- S versions	8.3 fps (ECCN 6A993)								
- F versions	25 fps (ECCN 6A003.b.4.b)								
Sensitivity (NEΔT)	< 50 mK @ f/1.0								

### Video

Number of video streams	2x H.264/MJPEG
Number of output streams	Up to 20 (RTSP)
Compression algorithm(s)	H.264 (ISO/IEC 14496-10), MJPEG
Encoder bit rate control	Constant bit rate (CBR), variable bit rate (VBR)
Output bit rate (per H.264 stream)	Up to 8 Mbit/s
Total output data rate	Up to 32 Mbit/s
Analogue video output	BNC (1.0 Vpp in 75 Ω)
Video overlay	3x Text, 1x bitmap (BMP, GIF); PID Object data (blue blob), event data (red box)

### Network

Interface(s)	1x 10/100 Mb Ethernet
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF
Password levels	User and Administrator
Supported browsers	Internet Explorer (9.0+), Chrome, Firefox, Safari
User accounts	20

### Powering

Supply voltage	100 - 240 Vac 50/60 Hz
Power consumption	50 W maximum

### Environmental

Operating temperature	-20°C to +75°C (-4°F to +167°F)
Ingress protection rating	IP66

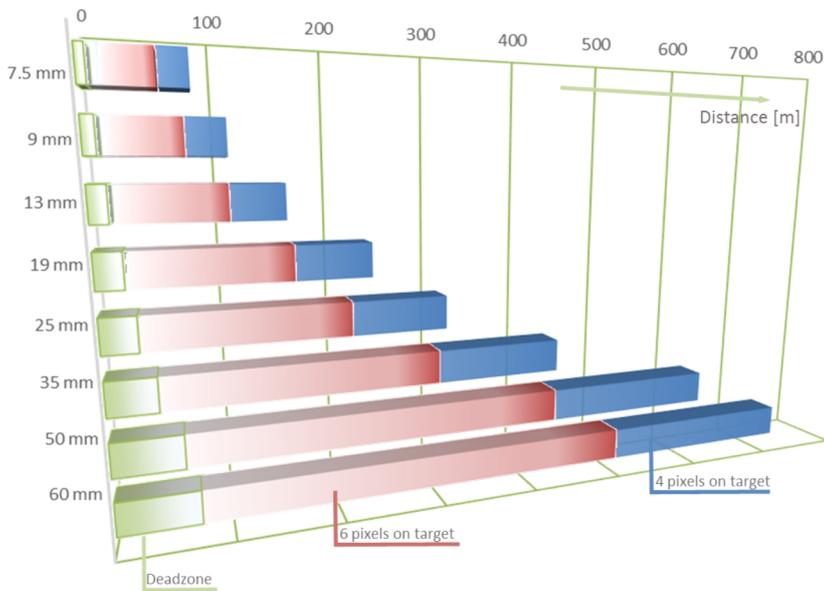
# Technical Specifications

## TC620-PID

### Mechanical

Camera body material	Aluminium
Finish	Epoxy polyester powder coat
Sunshield material	ABS
Colour	RAL 9002
Mounting options	Wall, pole, or ceiling
Dimensions (h x w x l)	160 x 176 x 514 mm (6.3 x 6.9 x 20.2 inch)
Weight	4 kg (approx.)

### Maximum distance per lens



# Technical Specifications

## TC620-PID

### Ordering information

Models	Description
Siqura TC620-PID 7.5-S	Outdoor thermal IP camera with PID, 7.5 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 9.0-S	Outdoor thermal IP camera with PID, 9 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 13-S	Outdoor thermal IP camera with PID, 13 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 19-S	Outdoor thermal IP camera with PID, 19 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 25-S	Outdoor thermal IP camera with PID, 25 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 35-S	Outdoor thermal IP camera with PID, 35 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 50-S	Outdoor thermal IP camera with PID, 50 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 60-S	Outdoor thermal IP camera with PID, 60 mm lens, 9 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 7.5-F	Outdoor thermal IP camera with PID, 7.5 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 9.0-F	Outdoor thermal IP camera with PID, 9 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 13-F	Outdoor thermal IP camera with PID, 13 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 19-F	Outdoor thermal IP camera with PID, 19 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 25-F	Outdoor thermal IP camera with PID, 25 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 35-F	Outdoor thermal IP camera with PID, 35 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 50-F	Outdoor thermal IP camera with PID, 50 mm lens, 25 Hz, 336x256, 100-230 Vac
Siqura TC620-PID 60-F	Outdoor thermal IP camera with PID, 60 mm lens, 25 Hz, 336x256, 100-230 Vac
WBOVA2	Wall bracket with internal cable channel. WBOVA2
OWBIP2	IP66/67 Sealing kit for WBOVA2
WFWCA	Column bracket (pendant) with joint. WFWCA
WMC3A	Ceiling bracket with ball joint. WMC3A
Siqura VCA Configuration Server	Configuration Server for ObjectR-PID
VCA Configuration Server - 1-ch license	License for one PID device in the VCS, enabling full VCA and forensic search



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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