

#### SIQURA

# XCU C THERMAL

XCU Compact 316L intelligent thermal camera

#### DESCRIPTION

Rugged thermal imaging camera for demanding environments. Thermal cameras can be used 24/7 for al sorts of monitoring or detection purposes. The XCU Compact Thermal is fitted with video analytics to actively help with perimeter surveillance, fire detection, flare monitoring, and hotspot detection. The XCU and its accessories are double protected against corrosion; they are entirely made of powder-coated 316L stainless-steel. The housing is hermetically sealed against water and dust, which makes it ideal for harsh environments like traffic, tunnels, marine, offshore, heavy industry, waste management, etc.

#### FEATURES

Uncooled thermal imager

Compact, robust, and corrosion free

powder-coated 316L stainless steel housing

Choice of lenses

Plug & Play

**Built-in analytics** 

Water and dust tight: IP66 & IP67

**ONVIF** Profile S





# Description

The XCU Fusion is designed to operate in harsh and aggressive environments. Typical applications are found in the heavy industry, traffic, tunnels, waterways, waste treatment and even in the salty environment of the marine. The XCU Compact Thermal is fitted with an uncooled thermal imager with a choice of lenses.

# Plug & Play

Installing and commissioning IP cameras has become child's play. The XCU Compact click's into place with its versatile mounting accessories and is operational by plugging in the external connector. No need to open the unit; all connections can be prepared in advance.

# Integrated thermal camera

The XCU Compact Thermal is fitted with a highly sensitive uncooled microbolometer for thermal imaging. It detects temperature differences as small as 50 mK and can spot heat sources invisible to the naked eye. When the darkness obscures the vision of an ultra-low light CCTV camera, the thermal camera gives a clear overview of what's going on.

# Multi-streaming and multicasting

The XCU Compact Thermal has multi-streaming capabilities for simultaneous transmission of one or more H.264 streams combined with MJPEG. This guarantees interoperability with existing VMS systems. Multiple combinations of resolution and frame rate can be configured to satisfy different live-viewing and recording scenarios. In addition, multicasting is supported for complex, multi-user video networks.

### Open standards

Out of the box, the XCU Fusion integrates with the common VMS systems. Being ONVIF Profile S compliant, the camera is supported by most video management systems. When needed, the camera can be controlled through a comprehensive HTTP API (Siqura Programming Interface). This specifically enables deployment in projects with custom requirements.

### Built-in video analysis

The XCU Compact Thermal is fitted with on-board analytics, called FlameGuard and FenceGuard.



FlameGuard is a specialized algorithm for 24/7 flare monitoring and fire/hotspot detection. The XCU Compact R1 version is able to accurately measure temperatures within a zone in combination with TKH Security Sense for early detection of e.g. spontaneous combustion.

FenceGuard detects intrusion detection or crossing of virtual fences in the highest possible accuracy and lowest number of nuisance alerts.



#### Camera housing

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Body material	316L stainless steel
Finishing	Powder coated (RAL9016)
Sunshield	316L powder coated, (RAL9016)
Heater/Demister	Standard
Ingress protection	IP66, IP67
Corrosion Class	C5 (ISO 12944)
Impact rating casing	IK10
Solar radiation test	MIL-STD-810, method 505.4 (p.4)
Shock test (transportation)	MIL-STD-810, method 516.5
Vibration (IEC 50068-2-6)	10 Hz to 150 Hz, 0.5g, all 3 axes, 1 oct/min, 1 sweep
Max wind velocity	240 km/h (150 mph)
Operating temperature	-34 °C to +74 °C (-29 °F to 165 °F) - per Nema TS-2
- Continuous (sheltered, air temp)	-30 °C to +55 °C (-22 °F to 131 °F)
- Cold start	-30°C (-22 °F)
Relative Humidity	5% to 100%
Dry heat test	+75 °C, 24 hours
Weight	2.5 kg

#### Thermal imager (Txxxx)

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Imager	uncooled r	uncooled micro-bolometer					
Pixel pitch	17 µm						
Resolution							
- Txx-S6 or Txx-F6	640x512						
- Txx-S3	366x256						
Focal length (xx=)	7.5 mm	9 mm	13 mm	19 mm	25 mm	35 mm	
- Field of view 640x512 (S6)	90°x69°	69°x56°	45°x37°	32°x26°	25°x20°	18°x14°	
- f-number	f/1.4	f/1.4	f/1.25	f/1.25	f/1.1	f/1.5	
- Field of view 366x256 (S3)	45°x35°	35°x27°	25°x19°	17°x13°	13°x10°	9.3°x7.1°	
- f-number	f/1.4	f/1.25	f/1.25	f/1.25	f/1.1	f/1.5	
Spectral bandwidth	7.5 μm to 13.5 μm (LWIR)						
Max frame rate							
- TxxSx version	8.3/7.5 fps						
- TxxFx versions	25/30 fps						
Sensitivity (NEdT)	< 50 mK @ f/1.0						
Time to image	< 60 s						
Digital zoom	No						
Color palette	10 selectab	10 selectable color palettes with freely adjustable temperature thresholds					
Video stream							
Number of streams	2x	2x					
Aspect ratio	5:4	5:4					
Compression algorithm(s)	H.264 BP/N	H.264 BP/MP/HP (H.264/MPEG-4 AVC), MJPEG					

Output images are up- or down-scaled

Supported output resolutions

# Specs



#### Video stream

	720x576; 704x576; 640x480; 480x576, 352x576;				
	704x288; 352x288; 320x240, 176x144				
Compression bit rate control	Variable bit rate (VBR)				
Output bit rate (per H.264 stream)	Up to 6Mb/s				
Number of video output streams	Up to 20 (RTSP) per input				
Total output data rate (max)	50Mb/s				
Video overlay	3x Text, 1x bitmap (BMP, GIF) in both optical and thermal image				
Analytics					
FenceGuard	Intrusion detection. Free form zones or detection lines				
- Detection line	Touch, Cross (directional sensitive), Cross				
- Detection zone	Touch, Enter, Inside, Exit				
FlameGuard	Hotspot detection in two zones or Flare-on, Flare-off and Flare-too-large monitoring				
- Measuring range	-40°C to 550°C				
- Accuracy	+/- 20 °C (T 100 °C)				
- Improved temp. reading accuracy	Only for versions TxxS3R1/TxxS6R1/TxxF6R1				
	+/- 5°C (T 100 °C); +/- 2°C typical				
Event time	0 to 10 s				
Event output	generic ONVIF, SPI				
Electrical					
Supply voltage	24 Vac 50/60 Hz or 24 Vdc (Galvanic isolated)				
PoE	IEEE802.3at type I, IEEE 802.3af				
Power consumption	9 W heater off; 12 W heater on				
Power connector	3-pin 7/8" Conec				
Network connector	Conec IP67 RJ45				
Network					
Interface(s)	100 Mb Ethernet, auto negotiating, MDI/MDX				
Protocols	IPv4, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, UPnP,				
Trotocois	IEEE 802.1x (EAP-MD5 or EAP TLS), IGMP, SNMP, QoS, ONVIF, TLS1.2, NTCIP-1205				
Password levels	Viewer, Operator and Administrator				
Supported browsers					
User accounts	Edge, Chrome, Firefox, Safari 20				
	20				
Ordering information					
XCU-C T75S3	XCU Compact 316L intelligent thermal imager 336 45° 8.3fps				
XCU-C T09S3	XCU Compact 316L intelligent thermal imager 336 35° 8.3fps				
XCU-C T13S3	XCU Compact 316L intelligent thermal imager 336 25° 8.3fps				
XCU-C T19S3	XCU Compact 316L intelligent thermal imager 336 17° 8.3fps				
XCU-C T25S3	XCU Compact 316L intelligent thermal imager 336 13° 8.3fps				
	XCU Compact 316L intelligent thermal imager 336 9.3° 8.3fps				
XCU-C T35S3	XCU Compact 316L intelligent thermal imager 336 9.3° 8.3fps				

# Specs

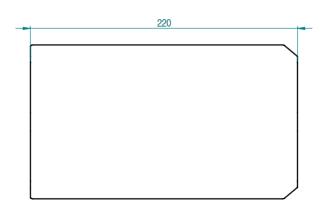


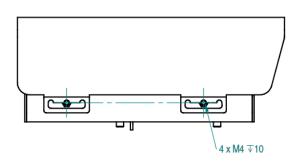
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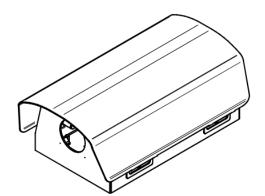
Ordering information				
XCU-C T09F3	XCU Compact 316L intelligent thermal imager 336 35° 30fps			
XCU-C T13F3	XCU Compact 316L intelligent thermal imager 336 25° 30fps			
XCU-C T19F3	XCU Compact 316L intelligent thermal imager 336 17° 30fps			
XCU-C T25F3	XCU Compact 316L intelligent thermal imager 336 13° 30fps			
XCU-C T35F3	XCU Compact 316L intelligent thermal imager 336 9.3° 30fps			
XCU-C T75S6	XCU Compact 316L intelligent thermal imager 640 90° 8.3fps			
XCU-C T09S6	XCU Compact 316L intelligent thermal imager 640 69° 8.3fps			
XCU-C T13S6	XCU Compact 316L intelligent thermal imager 640 45° 8.3fps			
XCU-C T19S6	XCU Compact 316L intelligent thermal imager 640 32° 8.3fps			
XCU-C T25S6	XCU Compact 316L intelligent thermal imager 640 25° 8.3fps			
XCU-C T35S6	XCU Compact 316L intelligent thermal imager 640 18° 8.3fps			
XCU-C T75F6	XCU Compact 316L intelligent thermal imager 640 90° 30fps			
XCU-C T09F6	XCU Compact 316L intelligent thermal imager 640 69° 30fps			
XCU-C T13F6	XCU Compact 316L intelligent thermal imager 640 45° 30fps			
XCU-C T19F6	XCU Compact 316L intelligent thermal imager 640 32° 30fps			
XCU-C T25F6	XCU Compact 316L intelligent thermal imager 640 25° 30fps			
XCU-C T35F6	XCU Compact 316L intelligent thermal imager 640 18° 30fps			
AddR1	For accurate temperature readings			
Mounting accessories				
XCUWM01	XCU 316L Wall/Pole mount with swivel, RAL9016			
XCUCM01	XCU 316L Rugged ceiling mount, RAL9016			
XCUSW01	XCU 316L Swivel Mount (swivel only), RAL9016			
Cable connectors				
XCUCNC-PWR01	XCU IP67 power connector straight, cable part (included)			
XCUCNC-2SM	XCU IP67 SM fiber connector straight, cable part (included)			

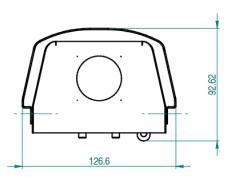


# DIMENSIONS IN [MM]

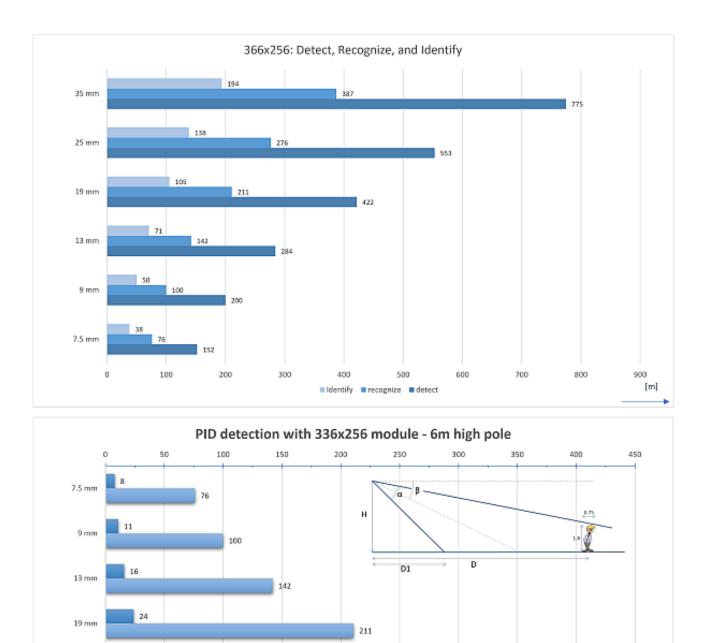












276

13 mm

16

142

32

35 mm

44

387

44

25 mm

32

276

19 mm

24

211

25 mm

35 mm

🛾 D1 [m]

■ D @ 4p [m]

387

7.5 mm

8

76

9 mm

11

100



