RoughCam® IPM1145-L

❄ -60°C ☀ +60°C IP68 HD 1080p Onvif

Compact HDTV Day & Night Varifocal Lens Camera with RemoteZoom, RemoteFocus, Infra Red Cut Filter and Infra Red LED

Features.

✓ **1920x1080** (HDTV 1080p)

✓ **Day & Night** functionality

✓ Dynamic and modular **PTC heating** concept for **arctic temperatures (-60°C)**

✓ One-cable-wiring **(PoE+)** IEEE 802.3af/at

✓ Built-in IR **LEDs and OptimizedIR**

✓ **P-Iris** control

✓ **Remote Focus** and **Remote Zoom**

✓ **Internal SD-card storage**

✓ The optional pneumatic enclosure cooling system „**cool.Jacket**" allows the use at high temperatures: „**High Definition meets High Temperatures**"
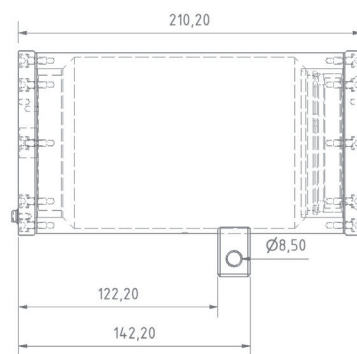
Dimensions.

T10-VA2.1 .X.X   Front view   Left side view

113,00

138,50

Ø40,4 Ø2713

40,00

210,20

122,20

142,20

Ø8,50
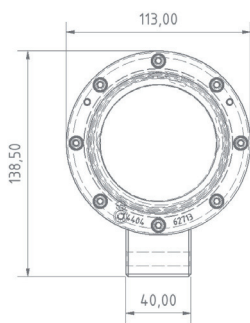
Models.

T10-VA2.1.K1.BOR-XXX-X-X

N = Normal Temp. (0°C to +40°C)
L = Low Temp. (-30°C to +40°C)
LL = Low Low Temp. (-60°C to +40°C)
H = High Temp. (0°C to +60°C)*¹
LH = High Temp. (-30°C to +60°C)*¹

P = Plug RJ45 cable connector
K = Terminal cable connection

__ = Length of cable pig tail in meter (005 to 100)

BOR = Borosilicate glass flange

K1 = Cable gland rectangular on rear flange

VA2.1 = Stainless steel enclosure

T10 = camera type no. 10

IP68

Mechanichal characteristics
Housing material:	Stainless Steel 1.4404 (AISI 316L) or optional 1.4401 / 1.4301
Protection level:	IP 68 (IEC / EN 60529)
Weight:	T10-VA2.1.K1.BOR...: 4600 g

SAMCON
Prozessleittechnik GmbH

Range of temperature
T10-VA2.1.X.BOR-XXX-X-N:	0°C to +40°C
T10-VA2.1.X.BOR-XXX-X-L:	-30°C to +40°C
T10-VA2.1.X.BOR-XXX-X-LL:	-60°C to +40°C
T10-VA2.1.X.BOR-XXX-X-H:	0°C to +60°C*[1]
T10-VA2.1.X.BOR-XXX-X-LH:	-30°C to +60°C*[1]

+60°C

-60°C

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Electrical characteristics
Power supply:	Power over Ethernet IEEE 802.3af/802.3at
	Class 3, max. 10.5 W

Connection cable
Outside diameter:	9.1 ± 0.2 mm
Twisted pair structure (data):	4 x 2 x AWG22/1 CAT.6a

Lens
Type:	Varifocal, P-Iris 3-10.5 mm
	F1.4 with built-in IR-cut filter
	and motorized focus/zoom
Horizontal angle of view:	Ca. 75° - 34° @ 16/9
Minimum illumination:	0 lux with activated IR illumination (ca. 8 m)
	Color: 0.4 lux, F1.4, B/W: 0.08 lux, F1.4

Camera
Image sensor:	Progressive scan RGB CMOS 1/2.9"
Shutter time:	Power line frequency 50 Hz: 1/28000s to 2s,
	Power line frequency 60 Hz: 1/33500s to 2s
Video compression:	H.264 (MPEG-4 Part 10/AVC), Motion JPEG
Resolutions:	1920 x 1080 (approx. 2 Megapixel) to 160 x 90
Frame rate H.264 / Motion JPEG:	Rated frecquency 50 Hz: 25 fps, Rated frecquency 60 Hz: 30 fps
Pan/Tilt/Zoom:	Digital PTZ, Remote Focus, Remote Zoom
Video streaming:	Multiple, individually configurable streams in H.264 and Motion JPEG
	Controllable frame rate and bandwidth VBR/CBR H.264
Image settings:	Compression, Color, Brightness, Sharpness, Contrast,
	Whitebalance, Backlightcompensation, Mirroring ofimages,
	Rotation – including Corridor Format, Text and imageoverlay,
	Privacy mask, Rotation: 0°, 90°, 180°, 270°
	Wide Dynamic Range - Dynamic Contrast, Exposure control,
	Exposure zones, Fine tuning of behavior at low light
Edge storage:	SD/SDHC memory card slot, supporting memory card up 64GB (card not included)
	Support for recording to network share (network-attached storage or file server)

HD 1080p

ONVIF

Network
Security:	Password protection, IP address filtering, HTTPS* encryption, digest authentication, user access log
Supported protocols:	IPv4/v6, HTTP, HTTPS*, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/, v3(MIB-II), DNS,
	DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
Application Programming Interface:	Open API for software integration, including supporting the ONVIF S specification available at
	www.onvif.org, as well as VAPIX® from Axis Communications, specifications available at www.axis.com
Intelligent video:	Video motion detection, active tampering alarm
Alarm triggers:	Intelligent video
Alarm events:	File upload via FTP, HTTP and email notification via email, HTTP and TCP
	Video recording to edge storage
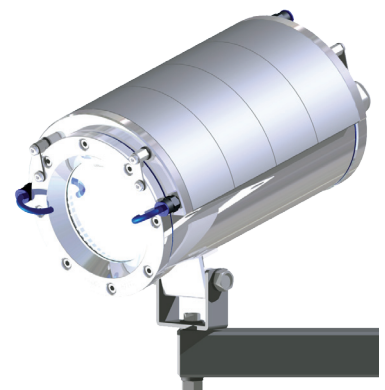
* 1: These models require the SAMCON cool.Jacket. The temperature class must be reduced to T5.
The compressed air according to the requirements must be available or be produced.