RoughCam® IPM2036

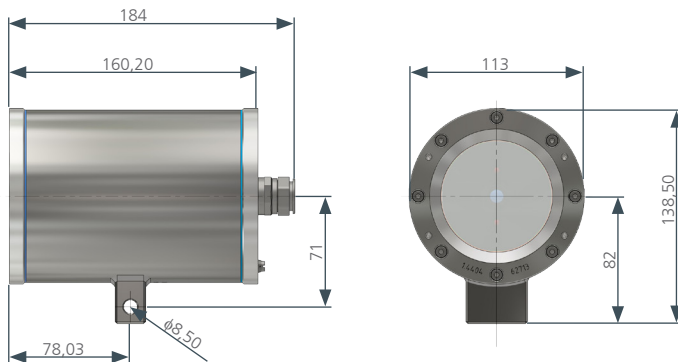❄ -60°C | ☀ +120°C | IR | IP68 | 4MP 1520p | ONVIF

Datasheet.

Features.

- ✓ Extremely robust Camera for **Demanding Environments**
- ✓ Deep Learning Processing Unit (DLPU) for **Artificial Intelligence** (AI) Applications
- ✓ **Day & Night** Functionality
- ✓ Built-in IR **LEDs and OptimizedIR**
- ✓ High Resolution: **4 MP/QHD 1440p**
- ✓ High Light Sensitivity with **1/2.7"CMOS Sensor**
- ✓ **Arctic-Temperatures** (-60°C)
- ✓ Protection Level of **IP66/68** (IEC 60529)
- ✓ Zipstream and Videocompression H.265
- ✓ Optional with cool.Jacket for Use at +120°C

Dimensions [mm].

184
160,20
113
138,50
71
82
78,03
ø8,50

Models.

T10-VA2.0.K1.BOR- X. X- XXX. X- X- XXX

085 = 85°@16/9 HAV-Lens
056 = 56°@16/9 HAV-Lens
041 = 41°@16/9 HAV-Lens

P = Plug RJ45 cable connection (standard)
T = terminal box connection

N = Non-armoured cable (standard)
A = Armoured cable

___ = Cable length (see UM)
(005 = Standard)

H = High temperature battery installed ($T_{amb} \leq$ +60°C)
HH = Active cooling system for extreme high temp.
($T_{amb} \leq$ +120°C)**

LL = Low Low temp., reinforced heater installed
($T_{amb} \geq$ -60°C/-50°C Type HH)

VA2.0.K1.BOR = Camera in stainless steel housing 1.4404

T10 = Camera type No. 10, cameras for safe areas

Lens Options

T10-VA2.0.K1.BOR-X.X-XXX.X-X-085 (wide)	Megapixel lens 3.6mm	F1.8 IR	HAoV@16/9=85°	(standard)
T10-VA2.0.K1.BOR-X.X-XXX.X-X-056 (normal)	Megapixel lens 6.0mm	F1.9 IR	HAoV@16/9=56°	
T10-VA2.0.K1.BOR-X.X-XXX.X-X-041 (tele)	Megapixel lens 8.0mm	F1.8 IR	HAoV@16/9=41°	

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Mechanical characteristics	Camera: stainless steel (AISI 316L/1.4404), terminal box: Polyester resin
Protection level (camera/terminal box):	IP66/68 / IP66 (IEC/EN 60529)
Weight:	ca.5 kg

Range of temperature
Type ...LL.H: -60°C bis +60°C
Type ...LL.HH: -50°C bis +120°C**

Power supply
Type ...LL.H: PoE, IEEE 802.3af/802.3at Type 1 Class 3, typical 5 W, max. 12.95 W

Connection cable type
     WWW.SAMCON.EU ... Cat.6 / 4x2xAWG22/1 ...; (.../AWG24/7 for -LL.HH-)
Outside diameter: 9 mm - 17 mm (6.6 mm for type -LL.HH-)

Lens
Type: IR corrected fixed Iris, fixed focus lens;
     with automatically removable IR-cut filter
Minimum focus distance: 0.5 m
Minimum illumination: Color: 0.18 lux at 50 IRE F2.1, B/W: 0.04 lux at 50 IRE F2.1
     0 lux with IR illumination on (max. range of reach approx. 2m)***

Camera
Image sensor: 1/2.7" progressive scan RGB CMOS
Shutter speed: 1/38500 s to 1/5 s
Video compression: H.264 (MPEG-4 Part 10/AVC) Main and High Profiles, Motion JPEG,
     H.265 (MPEG-H Part 2/HEVC) Main Profile
Resolution: 2304x1728 to 320x240 (4:3) / 2668x1512 (16:9)
Frame rate: Up to 25/30 fps (60/50 Hz)
Video streaming: Multiple, individually configurable streams in H.264, H.265 and Motion JPEG
     Axis Zipstream technology in H.264 and H.265
     Controllable frame rate and bandwidth, VBR/ABR/MBR H.264/H.265
Image settings: Compression, contrast, brightness, sharpness,
     WDR: up to 115 dB depending on scene, white balance, color,
     exposure control, motion-adaptive exposure, text and image-overlay,
     privacy masks, mirroring of images, rotation: 0°, 90°, 180°, 270° including Corridor Format
Pan/Tilt/Zoom: Digital PTZ
Edge storage: Support for microSD/microSDHC/microSDXC card (card not included in scope of delivery);
     Support for recording to network-attached storage (NAS)

Network
Security: Password protection, IP address filtering, HTTPS encryption,
     Digest authentification, 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, etc...

System integration
Application programming interface: Open API for software integration, including VAPIX® and AXIS Camera Application Plattform;
     Specifications at www.axis.com; One-click cloud connection;
     ONVIF® Profile S, ONVIF® Profile T und ONVIF® Profile G, specification at onvif.org
Included analytics: Deep Learning Processor Unit (DLPU), AXIS Object Analytics, AXIS Video Motion Detection,
     active tampering alarm, support for AXIS Camera Application Plattform enabling installation of
     third-party applications, see www.axis.com/acap
Event trigger: Analytics; I/O: manual trigger; edge storage of events, supervised external inputs, virtual inputs via API
Event actions: Pre- and post-alarm video or image buffering for recording or upload
     Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and E-Mail
     Notification: E-Mail, HTTP, HTTPS, TCP and SNMP trap
Data streaming: Event data
Built-in installation aids: Pixel counter, level grid

Optional accessories   Wall Mount Bracket (WMB), Pole mount Bracket (PMB), Weather Protection Roof (WPR),
     non-armoured cable kits, armoured cable kits, Connection Rails, ...

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*   = Illustrations show models with accessories that are subjected to an extra charge.
**   = This model requires the SAMCON cool.Jacket. The cooling water according to the requirements must be available or be produced.
*** = Range of reach of IR-illumination depending on scene (low light). See test report on IR-illumination or Usermanual.