

# RoughCam® IPM1137-LE



## Datasheet.

### Tough High Performance Camera with Integrated Illumination

#### Features.

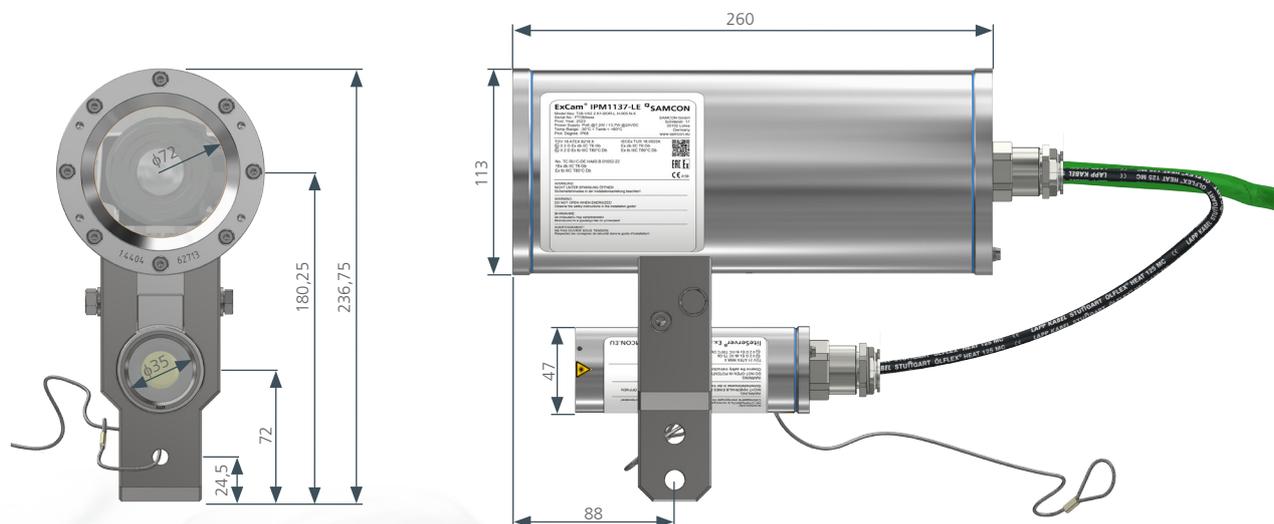
- ✓ Extremely robust Camera for **Demanding Environments**
- ✓ 100% Reflection-Free **Camera - Light Combination**
- ✓ **Single-Cable-Solution (PoE)**
- ✓ Versions with **Visible or Infrared Light**
- ✓ Protection Level of **IP66/68 (IEC 60529)**
- ✓ High Resolution: **2592x1944 (5 MP bei 25/30 fps)**
- ✓ Powerful **Remote Zoom Lens (i-CS)**
- ✓ **Light Control** via Camera (Web Server)
- ✓ **Lightfinder** and Forensic **WDR Technology**
- ✓ **Object Analytics** thanks to Machine Learning Processing Unit (**MLPU**)



#### Product- and Model- Variants.

Article Number	RoughCam Model Key	liteServer Model Key	Description
22070513	RoughCam IPM1137-LE-WL T10-VA2.2.K1.BOR-L.H-005.N-P	liteServer Rough.micro.24.WL.90 T21-VA0.1.K1.BOR-L.N-001.1-0	Visible Light. Cable Termination with Plug.
22070512	RoughCam IPM1137-LE-IR T10-VA2.2.K1.BOR-L.H-005.N-P	liteServer Rough.micro.24.IR.90 T21-VA0.1.K1.BOR-L.N-001.1-0	Infrared Light. Cable Termination with Plug.

#### Dimensions [mm].



## Data.

# RoughCam® IPM1137-LE



 <b>IP66</b>	<b>Mechanical characteristics</b> Housing material: Protection level: Weight:	Stainless Steel (AISI 316L/1.4404) IP66/68 (IEC/EN 60529) 8 kg
 <b>IP68</b>	<b>Range of temperature</b> Operation: Storage conditions:	-30°C to +50°C -40°C to +65°C, non-condensing; (put into operation at T > 0°C)
 <b>+50°C</b>	<b>Power supply</b>	Camera: PoE+ 802.3at Type 2 Class 4, typical 19.5 W, max 25.5 W;
 <b>-30°C</b>	<b>Connection cable type</b> Outside diameter:	WWW.SAMCON.EU SKD01-T Cat.6 / 4x2xAWG22/1 GN J/W 9.1mm ± 0.2mm
 <b>⚡</b>	<b>Lens</b> Type:	Varifocal, IR corrected, CS-mount lens; Remote zoom and focus, P-Iris control, 3.5 - 10 mm, F1.4
 <b>📷</b>	Field of view:  Minimum focus distance: Minimum illumination:	5 MP HFoV: 99° – 31°, VFoV: 71° – 24° 4 MP HFoV: 103° – 23°, VFoV: 54° – 18° 0.8 m Color: 0.17 lux at 50 IRE F1.4, B/W: 0.03 lux at 50 IRE F1.4
 <b>📹</b>	<b>Camera</b> Image sensor: Shutter time:	1/2.7" progressive scan RGB CMOS 1/33500 s to 1/5 s
 <b>HD 1944p</b>	Videocompression:  Resolution:  Frame rate: Video streaming:	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-HPart2/HEVC) Main Profile, Motion JPEG 5 MP: 2592x1944 to 160x120 4 MP: 2688x1512 to 160x90 Up to 25/30 fps in all resolutions Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265
	Image settings:	Controllable frame rate and bandwidth, VBR/ABR/MBR H.264/H.265, Video streaming indicator Forensic WDR, manual shutter time, compression, color, contrast, brightness, sharpness, white balance, exposure control, exposure zones, fine tuning of behavior at low light, barrel distortion correction, rotation: 0°, 90°, 180°, 270° including Corridor Format, aspect ratio correction, mirroring of images, text and image overlay, privacy masks
	Pan/Tilt/Zoom: Edge storage:	Remote-Zoom, Vario-Focus and digital PTZ SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included); Support for recording to dedicated network-attached storage (NAS)
 <b>🌐</b>	<b>Network</b> Security:	Password protection, IP address filtering, HTTPS encryption, digest authentication, user access log, brute force delay protection, signed firmware, secure boot, ...
	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...
 <b>Onvif</b>	<b>System integration</b> Application Programming Interface:	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <a href="http://www.axis.com">www.axis.com</a> ; AXIS Video Hosting System (AVHS) with One-Click Connection; ONVIF® Profile G/M/S and ONVIF® Profile G, specification at <a href="http://onvif.org">onvif.org</a>
	Analytics Included:	Machine Learning Processing Unit (MLPU), AXIS Video Motion Detection, active tampering alarm, Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://www.axis.com/acap">www.axis.com/acap</a>
	Event triggers: Event actions:	Analytics, edge storage events, supervised external input, edge storage events, virtual inputs through API Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS, TCP and SNMP trap
	Data streaming: Built-in installation aids:	Event data Pixel counter
	<b>Optional accessories</b>	Wall mount bracket, Pole mount bracket, Ceiling mount bracket, Weatherprotectionroof (WPR-VA2.2) Terminal box ExTB-3, Non-armoured cable kits, Armoured cable kits, ExConnection Rails, ...