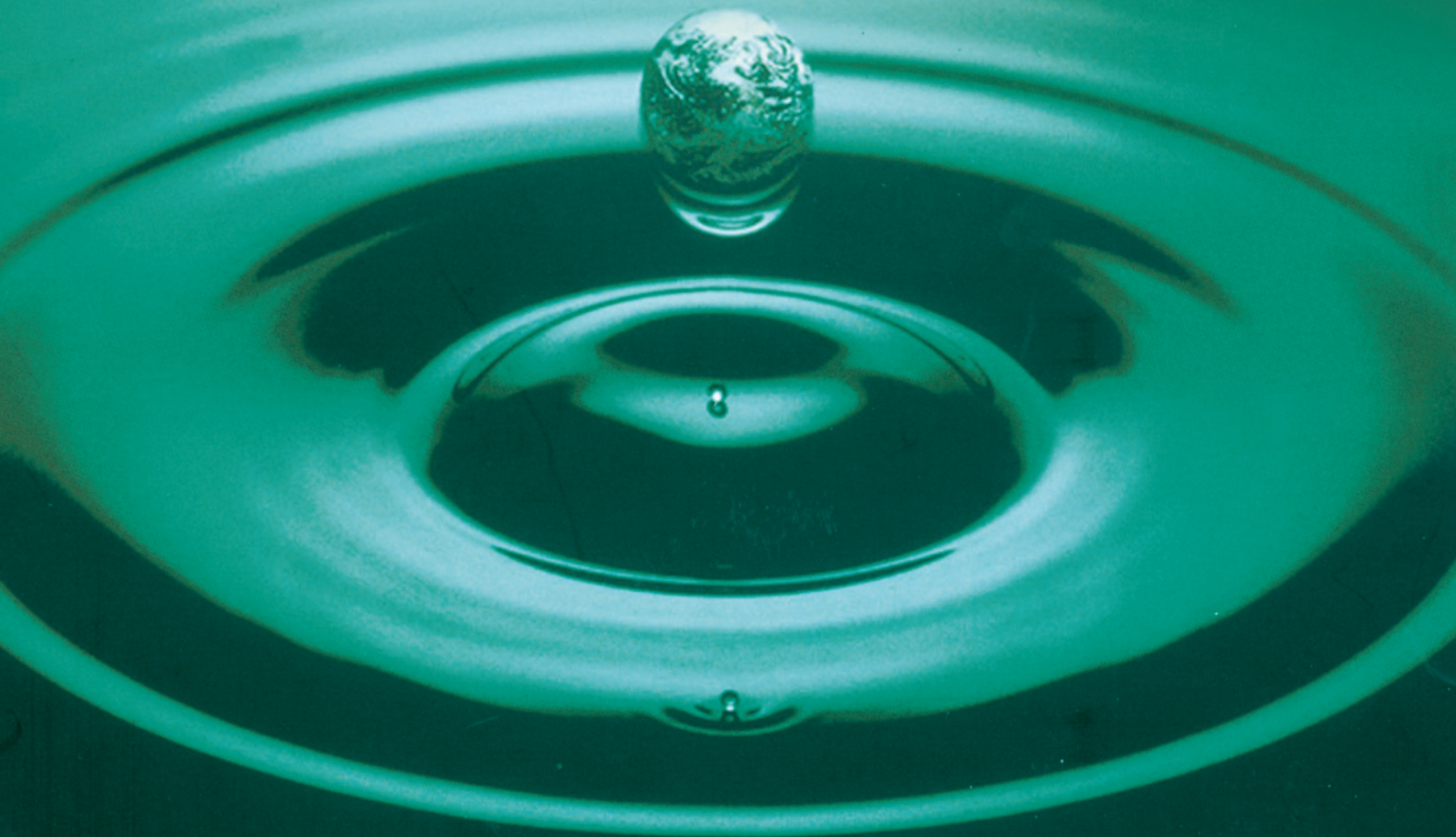




**HIGH TECHNOLOGY CCTV PRODUCTS**





# KLIS 360-5M

IP Fixed Panoramic Camera

**KLIS 360-5M is the new Italian panoramic camera Wide View and Megapixel. The special lens allows a wide angle of view up to 135° horizontal and 119° vertical.**

## KEY FEATURES

- Ethernet Camera with high resolution sensor of 5.0 Megapixel
- Hemispherical covering up to 135°
- No mechanical parts in movement
- True Day & Night function
- Outdoor housing IP66
- Video Analytics optional
- Motion Detection integrated
- Multiple Privacy Zones
- Transmission bandwidth configurable
- Frame Rate configurable
- Fully Configurable Through Web-Based Network Management
- Time-Stamp and title directly on images
- Integrated in Genetec Omnicast Network Video Recorder software



The special lenses of the KLIS360-5M allows a fields of view of up to 135° while almost completely eliminating barrel image distortion. Straight lines remain straight in the image. In many situations this eliminates the need to install multiple cameras, saving the user money on installation, cabling, and cameras.

<u>Model</u>	<u>KLIS 360-5M-I</u>	<u>KLIS 360-5M-E</u>	
Sensor Type	5.0 Megapixel CMOS 1/2.5"		
Active Pixel	2560(H) x 1920 (V) pixels		
Dynamic range	60dB		
Minimum illumination	2 lux color / 0.5 lux monochrome		
Auto recovery	embedded watchdog		
I/O	1 alarm input, 1 relay output		
<u>Codec Video</u>			
Interfaces	10/100 Base-T (RJ45)		
Protocols	TCP/IP, HTTP, FTP, RTP/RSTP, DHCP		
Authentication	Password and Username		
Compression type	JPEG and MJPEG		
<u>General specification</u>			
Operation temperature	0° C ~ 45° C	-30° C ~ 60° C	
Housing		Dome aluminum Housing	
Protection		IP66	
Dimension (W x H x L)	55.5mm x 51.4 mm x 111 mm	218 Ø x 225 mm (310 wall mount)	
Power supply	12 VDC or PoE (802.3af)		
Power consumption	4.0 W maximum	35 W maximum	
<u>Lenses</u>	<u>-50</u>	<u>-120</u>	<u>-135</u>
Focal length	6mm	1.67mm	1.28mm
Field of view	H 50° V 39° D 67°	H 120° V 104° D 130°	H 135° V 119° D 141°
F stop	F=1:1.2 ~ 16	F/1.8 ~ ∞	
Iris	Auto / Manual		
Resolution	Up to 5 Megapixel		
Distortion	-0.2 %	< 3%	
Minimum focus	0.1 cm	10 cm	1cm
Pan – Focus distance	10 cm ~ ∞		
Compliance	FCC , CE , ISO 9001:2000		

### KEY FEATURES

- **Outdoor Dome Camera**
- **Polycarbonate Dome Cover**
- **Easy interface with multiple protocols**
- **IP66 environmental structure**
- **Optical 36X zoom**
- **High quality images**
- **520 TVL (color) 570 TVL (B&W)**
- **IR cut filter removable Day&Night**
- **Built-In Image Stabilizer function**
- **Max 400°/sec panning speed**
- **Up to 248 preset, up to 8 Tour**
- **4 Patterns up to 240 seconds**
- **8 Zone of image masking for Privacy**
- **Auto Flip function**
- **Anti-vandal housing**
- **Codec MPEG-4 / H.264 integrated**
- **Fiber Optical Media-converter integrated in IP version (IEEE Compliant), 100 FX**
- **Multimode and singlemode available**
- **Extended operating temperature range**



IP Optical Fiber Connection

### DYNAMIC NETWORK ADAPTION - DNA

#### Bandwidth reduction:

Tools to dramatically reduce bitrates

#### Quality Control:

Guarantees the visual quality of the video

#### Temporal Scalability:

Generate and Manage two H.264 video streams from the same source

#### Dual Stream (MPEG-4)

Model	KLIS D36X-IP	KLIS D36X-IP-H
Image pick-up device	1/4" Super HAD CCD	
Active Pixels	752 (H) x 582 (V)	
Scanning System	625 Lines 2 :1 interlace	
Synchronization system	Internal / line-lock selectable	
Horizontal resolution	Color 520 TVL / B&W 570 TVL	
Optical zoom	36X, f 3.4 - 122.4mm (F1.6 - 4.5)	
Digital zoom	12X	
Min. Illumination	1.4 Lux (0.1 Lux at 1/4 mode) / 0.01 Lux at 1/4 mode & ICR On-mode	
Digital Image Stabilizer	On / Off	
SNR	> 50dB	
Back Light Compensation	Low / middle / High / Off selectable	
Day & Night	Color / B-W / Auto selectable (ICR filter change)	
Gain Control	Low / Middle / High / Off selectable	
White balance	ATW/AWC/ manual selectable	
Electronic Shutter Speed	1/1 - 1/10.000s 22 steps	
Sens - UP	On / Off selectable	
Noise Reduction	Low / Middle / High / Off selectable	
Focus Control	Auto / manual / One push selectable	
Iris Control	Auto / Manual selectable	
Codec Video	KLIS D36X-IP	KLIS D36X-IP-H
Ethernet Interface	10/100 Base-T (RJ45)	
Protocols	RTP/RTCP, RTSP, SDP, TCP, UDP, HTTP, DHCP, NTP, IGMPv2 Unicast or multicast mode	
Authentication	SSL, Password e Username	Password e Username
Image Quality	QCIF / CIF / 2CIF / HalfD1 / 4CIF	From QCIF to FULL D1
Compression	MPEG-4 SP	MPEG-4 ASP or H.264
Bandwidth	Selectable from 9 Kbps to 4 Mbps	
Bit Rate	up to 25/30 fps, with 25fps @ 4-CIF functionality	
Dual Streaming	Supported for MPEG-4 and H.264	
Audio channel	1 mono - AAC-LC - 32-64 kb/s - 8 kHz - 48 kHz	
I/O	1 digital input, 1 digital output	
Operating		
Operating temperature	-30° C ~ 60° C	
Humidity	0% a 90%	
Protection	IP66	
Dimensions (W x H x L)	236(∅)x319(H)mm - 166(∅) dome	
Power	220 VAC	
Consumption	From 30 Watt min up to 50 Watt max with all components on	

**KLIS IPCAM series is the first Italian series of cameras with Day&Night functionality, High resolution, and Codec IP MPEG4/H.264 with low impact in bandwidth consumption. The focus of these cameras is the full-compatibility in the most known Software of Network Video Recorder as Omnicast. Video Analytics functionality optional.**

**Klis IPCAM1**



**Klis IPCAM2**



**Klis IPCAM3**



		<u>KLIS IPCAM1</u>	<u>KLIS IPCAM2</u>	<u>KLIS IPCAM3</u>
Image	Sensor	1/3" Hi-Res CCD	1/3" Super HAD CCD	1/3" inch
	Effective Pixel	<b>752 X 582 (PAL)</b>	<b>537 x 597 (PAL)</b>	<b>1296 (H) x 966 (V)</b>
	Horizontal Resolution	520 TVL	420 TVL	900 TVL
Min.Scene Illumination	Minimum illumination	0.2 lux color / 0.002 lux monochrome	0.05 Lux at F1.0 (AES & Sense-Up ON)	0.05 Lux at F1.2 (30 IRE, SAGC)
	IR Sensitivity	810nm	n/a	from 700nm to 1100nm
Lens	Lens	C /CS	C /CS	C /CS
Synchronization	Sync. Systems	Internal	Internal	Internal
Day/Night Functions	Meccanical IR Cut Filter	Yes	No	Yes
Functions	Motion Detection	n/a	Yes (3 windows)	Yes (3 windows)
	Electronic Shutter	1/50 ~ 1/120,000 sec.	1/50 ~ 1/120,000 sec.	1/50 (1/60) ~ 1/10,000 sec
	Fixed Shutter	n/a	1/60 to 1/10000	1/60 to 1/10000
	Flickerless	Auto On/Off	Auto On/Off	Auto On/Off
	BLC	Auto On/Off	Auto On/Off	Auto On/Off
	AGC	Auto On/Off	On /Off (switchable)	Super AGC 0~36 dB
White Balance	Auto On/Off	ATW /PWB (switchable)	Auto / Manual / Preset	
S/N Ratio	S/N Ratio	Better than 50 dB		Better than 50 dB
Video Compression	Compression	<b>MPEG-4 SP</b> simultaneous dual streams	<b>MPEG-4 SP, MJPEG</b> selectable	<b>H.264/ MPEG-4 SP/ MJPEG</b> simultaneous dual streams selectable
	Picture Resolution	From 4CIF (704x576) to QCIF 176x144	From Full D1 (720x576) to QCIF (176x144)	From SXGA (1280x960) to QQVGA (160x112)
	Bit Rate	30K ~ 6M bps	Up to 4M bps	28K ~ 6M bps
	Image Frame Rate	25 fps at 4CIF	30 fps at Full D1	15 fps at SXGA; 30 fps at other resolutions
Audio Input	Compression	PCM – uLaw – GSM6.1	8kHz, Mono, PCM	
	Audio Line Input	3.5mm phone jack	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack	
Audio Output	Compression	PCM – uLaw – GSM6.1	8kHz, Mono, PCM	
	Audio Line Output	3.5mm phone jack	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack	
Alarm	Digital Input	1	1, Active low under 0.7V/ max 30V,	
	Digital Output	1 relay	1, OD/ max 24VDC/100mA,	
External I/O	Reset Button	Factory Default	Factory Default	Factory Default
	LED	System Status	System Status	System Status
Network	Ethernet Port	Ethernet (10/100 Base-T), Terminal Block		
	Protocolli	RTP, TRCP, TCP/IP, UDP, HTTP, IGMP, ICMP, ARP, Multicast IP	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, 3GPP, UPnP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above		
	Security	SSL, password protection	Password Protection: Configured by the Administrator	
Operating	Temperature	0°C ~ 50°C	0°C ~ 50°C	-10°C ~ 45°C
Power	Power Requirement	PoE (IEEE 802.3af)	PoE (IEEE 802.3af) Class 3	
	Power Consumption	8W	4.3W	7W
Physical	Dimensions (WxHxD)	67 mm x 60 mm x 130 mm	67 mm x 55 mm x 129.5 mm	135.6mm x 82.6mm x 61.0mm
	Weight	500g	400g(0.88lb)	505g(1.1lb)