

HIGH TEMPERATURE CAMERA

cam^{tec} high temperature small IP camera

Air cooled high temperature systems



CAMTEC "S" Series

Description

CAMTEC-L high-temperature IP cameras provide clear, crisp images of the combustion process in boilers, kilns, furnaces, incinerators and other combustion chambers. With the real-time image provided, engineers and operators can monitor the proper flow of fuel and raw materials, reduce emissions, reduce fuel consumption, speed up boiler light off and improve safety.

CAMTEC-L IP cameras are native network camera based on a progressive scan RGB CMOS 1/4" image sensor with resolution up to 1280x720 pixel. Within a powerful microprocessor many image settings can be done to produce high quality video even in the most challenging lighting conditions present in the high temperature Industrial process.

Multi-streaming and multi-encoding for MJPEG, H.264 can guarantee a wide range of solutions for view, stream and record the images coming from CAMTEC-L IP cameras over any Ethernet network.

CAMTEC-L cameras are endowed with special high temperature lenses, available with axial vision and alarm thermo-switch or sensor that provides an alarm when the temperature exceeds 55°C (131°F). Thanks to the small dimensions, CAMTEC-L cameras are ideal for the use with SONDATEC-L housings, designed for all applications that require a small entrance diameter. All the electrical connections are assured by industrial standard connector, mounted on the back camera flange.

Aware of the difficulties and of the critical urgencies that characterize industrial environments, the settings, operation and control of CAMTEC-L IP series cameras can be easily done from a PC connected on the same network, through a browser and the camera's web server.

Part Number Configurator

1	2	X	A	B	C	D
			Length [mm]	Type pf sleeve	Lens (Diagonal Angle / inclination)	Option
			1 = 1200	4 = HD SDI type for Sondatec 2.0	0 = 78° - 18°	T = Temp. Sensor (PT100)
			2 = 3000	5 = HD SDI type for Sondatec 1.0	1 = 53°	S = Temp. Sensor (4-20 mA)**
			3 = 300	6 = for Sondatec 1.0	2 = 74°	E = Special version for EAF applications
			5 = 1000	7 = for Sondatec 2.0	3 = 96°	F = as model "E" + Temp. Sensor (PT100)
			7 = 700	A = IP Sondatec 1.0	4 = 22°	G = as model "E" + Temp. Sensor (4-20 mA)
			9 = 900	B = low lux 2.0	5 = 33°	
				C = low lux 1.0	6 = 33° - 6°	
				D = IP Sondatec 2.0	7 = 68°	
				E = low lux 1.0 NTSC	8 = 68° / 3,7 / 90°	
				G = Sondatec "G"	9 = 40° / 8 / 90°	
				P = Sondatec "P"	A = 85° / 3,3	
				S = Sondatec "S"	B = 85° / 3,3 / 45°	
				L = Sondatec "L"	C = 85° / 3,3 / 60°; field of vision: up/bottom	
					D = 85° / 3,3 / 60°; field of vision: left/right	
					E = 78° - 18° / 3,6 - 18 for AIR cooled type	

** "S-option" and "G-option" are not available with version L= 300 mm

IP
camera

HD
resolution

WEB
CONTROL

OSD
SUPPORT

MJPEG
MPEG-4
H.264

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Technical Specifications CAM12X1S7		
CAMERA	Image sensor	Progressive scan RGB CMOS 1/4"
	Lens	f=3.7 mm, F2.5, fixed iris, fixed focus; Angle of view: (H)57°, (V)31°, diagonal: 68°;
	Light sensitivity	1.2-10000 Lux
	Shutter time	1/24500s to 1/6s
VIDEO	Compression	H.264 (MPJEG-4 Part 10/AVC); Motion JPEG
	Resolutions	1280x720 to 320x180
	Frame rate	Up to 25/30 fps (50/60Hz) in all resolutions
	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, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Rotation, Text and image overlay, Mirroring of images, Privacy mask
NETWORK	Protocol	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP/TM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
	Security	Password protection, IP address filtering, HTTPSa encryption, IEEE 802.1Xa network access control, Digest authentication, User access log, Centralized Certificate Management
EVENT	Event triggers	Analytics, External inputs, Video loss
	Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP External output activation Video recording to edge storage Pre- and post-alarm video buffering
	Built-in installation aids	Pixel counter
	Data streaming	Event data
GENERAL	Casing	Main unit: Polycarbonate casing Sensor unit: Metal casing (aluminum)
	Memory	256 MB RAM, 128 MB Flash
	Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 2 (max 6.49 W); 8-28 Vdc, max 4.7 W
	Connectors	RJ45 for 10BASE-T/100BASE-TX PoE RJ12 for the sensor unit Terminal blocks for power, 1 alarm input and 1 output
	Edge storage	Support for microSD/microSDHC/microSDXC card; Support for recording to dedicated network-attached storage (NAS)
	Operating conditions	-20°C to 50°C (-4°F to 122°F) Main unit: Humidity 10-85% RH (non-condensing) Sensor unit: Humidity 10-85% RH (non-condensing)
	Storage conditions	-40°C to 65°C (-40°F to 149°F)
	Approvals	EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6 Class 4M4, IEC 60068-2-27 Class 4M3, 60068-2-78 Class 3K3
	Dimensions	Ø 20x42 mm
	Weight	Main unit: 109 g Sensor unit: 238 g



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