

# HIGH TEMPERATURE CAMERA

## acqua<sup>tec</sup> High temperature Integrated IP Camera



ACQUATEC Series

ACQ07X003A/4A

### Functional description

ACQ07X003A/4A is an integrated solution that combines the performance of ACQUATEC housings with the efficiency of CAMTEC high resolution IP cameras, providing clear crisp images of the combustion process in boilers, kilns, furnaces, incinerators and other combustion chambers.

CAMTEC IP cameras are native network camera based on a high resolution HD CMOS image sensor with resolution up to 1920x1080 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 IP cameras over any Ethernet network.

Appropriate factory settings (AE Presets) joined to a guide menu extremely convenient for the user, allow an easy and fast installation of the cameras and, consequently, with reduced costs, in each specific situation of surveillance and control.

ACQUATEC housings are endowed with high efficiency air cooling system allowing operation in temperatures to 90°C (≈194°F). They also are “pressurized”: an integral compressed air system supplies clean air (or appropriate gas) for cooling and particulate removal from the lens. In such a way the lens doesn’t require any expensive protection glass, crystal and protection porthole. A constant supply of clean air is essential for proper camera operation and protection: GFATEC series represent an effective filtration system able to remove contaminants and to provide high quality clean air in industrial environments.

ACQ07X003/4 are completed with swivel bracket for wall mounting, interconnection kit, power supply box with input 96-264Vac, all assembled and set in our factory in Italy. Version with PoE power supply is available too.

Optional system accessories include hydraulic-pneumatic and electrical control cabinet (CABTEC series), water cooling closed circuits.

### Available models

ACQ07X003A	Integrated IP camera housing with air cooling, 3-10,5mm optic, 96-264Vac power supply;
ACQ07X0P3A	as ACQ07X003, but with Power-over-Ethernet IEEE 802.3af;
ACQ07X004A	Integrated IP camera housing with air cooling, 5-60mm optic, 96-264Vac power supply;
ACQ07X0P4A	as ACQ07X004, but with Power-over-Ethernet IEEE 802.3af;

Full HD

30 ips

WDR

PoE

AIR  
COOLED

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## Technical Specification

		ACQ07X003A	ACQ07X0P3A	ACQ07X004A	ACQ07X0P4A
SENSOR	Sensor type	1/2.7-inch CMOS			
	Total sensor pixels	1952 x 1092 (2MP)			
PERFORMANCE	Resolution	up to Full HD 1920x1080			
	Sensitivity	Color: 0.25Lux; Monochrome: 0.5Lux			
	Wide Dynamic Range	76 dB WDR			
	Video compression	H.264 (MP); M-JPEG			
	Video Streaming	Multiple configurable streams in H.264 and MJPEG, configurable frame rate and bandwidth. Regions of Interest (ROI)			
	Overall IP delay	Min. 120ms, Max, 340ms			
	GOP structure	IP, IBP, IBBP			
	Encoding interval	1 to 25 [30] ips			
LENS	Focal length	3 - 10,5 mm, F1-1.4	5 - 60 mm, F1-1.6		
	Horizontal field	83° ~ 34°12	49° ~ 5°24		
	Type (Iris / focus)	Automatic iris control / Manual adjustment			
	Lens mount	CS mount (C-mount with adapter ring)			
	Lens connector	Standard 4-pin DC-iris connector			
VIDEO FUNCTIONS	Day/Night	Color, Monochrome, Auto			
	Adj. picture settings	Contrast, Saturation, Brightness			
	White Balance	3 automatic modes, manual mode and measure			
	Shutter	Automatic Electronic Shutter (AES) Fixed shutter (1/25[30] to 1/15000) selectable Default shutter			
	BLC	On/Off			
	Noise reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments			
	Contrast enhancement	On/Off			
	Sharpness	Sharpness enhancement level selectable			
	Intelligent defog	Automatically adjusts parameters for best picture in foggy or misty scenes (switchable)			
	Privacy Masking	Four independent areas, fully programmable			
	Video Analysis	MOTION+			
	Other functions	Image mirror, Image flip, Pixel counter, Video watermarking, Display stamping, Scene modes			
AIR FOR COOLING AND CLEANING LENS	Connection	1/4" M BSPP			
	Temperature IN	40°C max			
	Consumption	around 3 Nm <sup>3</sup> /h			
	Pressure entry	from 1 bar to 2 bar			
	Quality	Instrumental Air ISO 8573-1 Classe 1.2.1			
ENVIRONMENTAL	Operating Temperature	-10°C ~ 90°C			
	Humidity	Less than 90%, non condensing			
POWER	Input	IN: 96-264Vac, 50/60Hz;	PoE IEEE 802.3af	IN: 96-264Vac, 50/60Hz;	PoE IEEE 802.3af
PHYSICAL	Material	Housing	AISI304 stainless steel		
		JBX	Aluminum		
	Dimensions	Housing	internal Ø: 90 x 350 mm external dim.: (L)380 x (Ø)129 mm		
		JBX	195 x 251 x 87 mm		
	Connection Kit	Galvanized armoured steel hose with cables. L=1,5 m			
	Mounting	Bracket for wall mounting with swivel included			
Weight	Total	14 Kg			



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