

# HIGH TEMPERATURE CAMERA

## air<sup>tec</sup> Camera housing

### Air cooled high temperature vision systems



#### AIRTEC Series

##### Operational description

AIRTEC camera housings have been developed to allow the use of television camera in high temperature and dusty environments, as glass process, cement industries, iron&steel plants.

The entire manufacturing process is characterized by high quality material and components, sophisticated and proven technology and a special attention to details considering the specific critical urgencies and requirements of the industrial environments. AIRTEC camera housings are designed to accommodate a wide range of CCD Camera and lens configuration for both fix and zoom lens applications.

AIRTEC housings are "pressurized" and endowed with high efficiency air cooling system that allows operation in temperature up to 90°C (194°F): 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.

AIRTEC series also includes special models with Germanium window, allowing the use of the housings with thermal imaging cameras.

AIRTEC housings series is complete with air barrier, wall brackets and swivel joints with horizontal and vertical adjustment. Telea Tecnovision also provides a wide range of accessories for specific installations.

##### Technical specification

Internal dimensions:	300/350 x 105 x 86 mm
External dimensions:	450/500 x 175 x 150 mm (bracket and swivel joint not included)
Protection Degree:	IP66 (IP65 without pressurized air)
Windows:	Flat glass: 80 x 70 mm; Germanium window: Ø55 mm / Ø30 mm; Convex glass (AIR08X391): Ø55 mm
Max temperature:	max 90°C (194°F)
Housing material:	die-cast and extruded aluminum
Nuts and bolts material:	zinc coated steel
Cables entry:	no. 3 cable glands M16x1,5
PoE+ (AIR08X530):	30W (IEEE 802.3at); Input: 36-57V; Output: 12V
Finish:	pre-treatment and anodisation - pre-treatment and polyester powder coating

##### Air for cooling and cleaning lens

Connection:	1/4" M BSPP
Temperature IN:	35°C
Consumption:	0.5 bar max 4 Nm³/h - 1 bar max 6 Nm³/h
Pressure entry:	from 0.5 bar to 1 bar max
Quality:	Instrumental Air ISO 8573-1 Classe 1.2.1

##### Accessories

GFA13X___	Three stage compressed air filter unit GFATEC series: endowed with pressure regulator and manometer.
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Air  
cooled

Air  
barrier

IP66

PoE+

GE  
available



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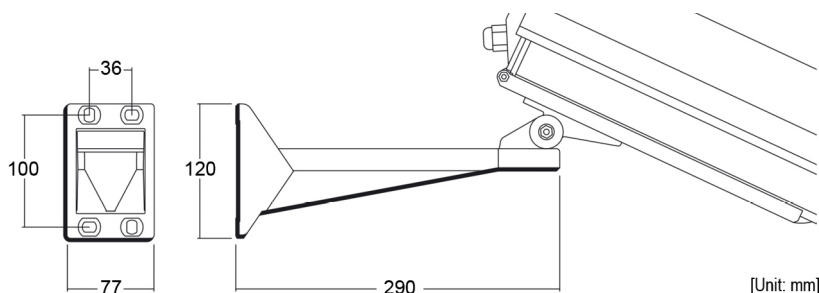
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## Dimensions

### BRACKET and SWIVEL

Bracket and Swivel weight

300mm | 0.70 Kg  
350mm



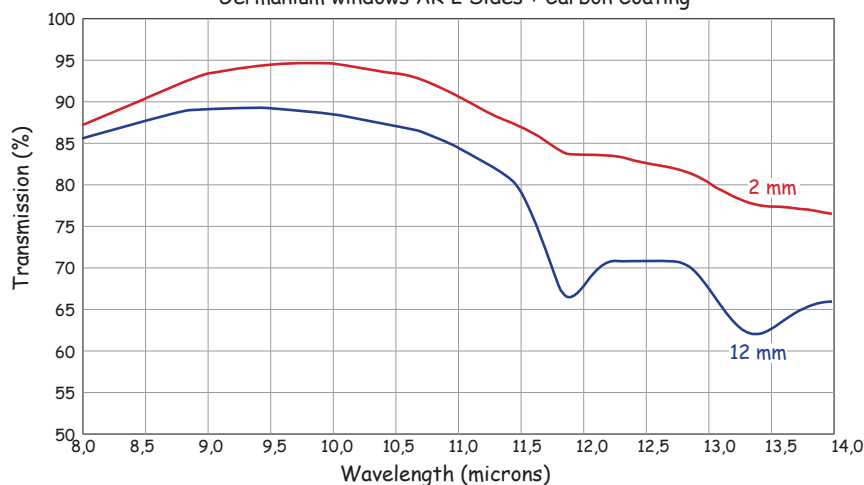
[Unit: mm]

## Range of products of AIR08 Series

	Air cooled + air barrier	Length [mm]		Power Supply				Window				
		300	350	230 Vac	12Vdc/ 24Vac	PoE+	Ø	Flat glass	Convex glass	Ge* (30 Ø)	Ge* (55 Ø)	without window
AIR08X300	X	X		X				X				
AIR08X320	X	X			X			X				
AIR08X325	X	X			X						X	
AIR08X329	X	X			X							X
AIR08X390	X	X					X	X				
AIR08X391	X	X					X		X			
AIR08X500	X		X	X				X				
AIR08X520	X		X		X			X				
AIR08X523	X		X		X					X		
AIR08X525	X		X		X						X	
AIR08X529	X		X		X							X
AIR08X530	X		X			X		X				
AIR08X590	X		X				X	X				

## Characteristic Curves of Germanium Window

\*Germanium windows AR 2 Sides + Carbon Coating



## Part Number Configuration

0	8	X	A	B	C
			Length	Power Supply	Window
			3 = 300 mm	0 = 230Vac	0 = Flat Glass
			5 = 350 mm	2 = 12Vdc / 24Vac	1 = Convex Glass
				3 = PoE+	3 = Germanium (30Ø usable)
				9 = Ø	5 = Germanium (55Ø usable)
					9 = without window

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