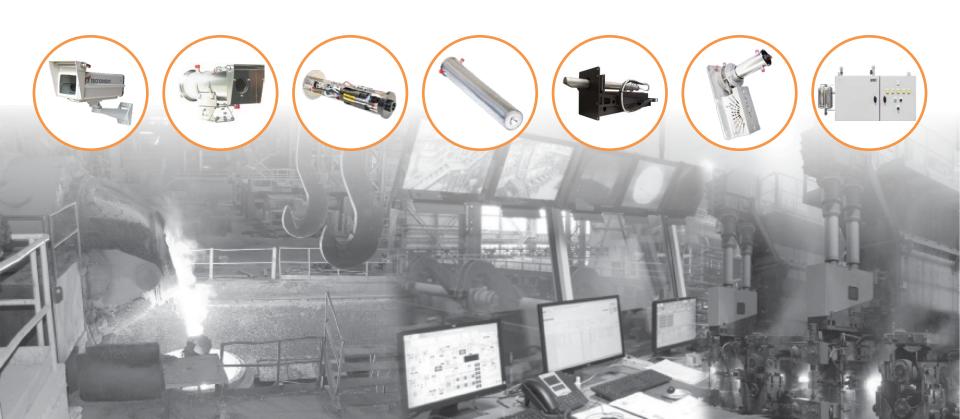




HIGH TEMPERATURE CAMERA SYSTEMS

TECHNOLOGIES & PRODUCTS

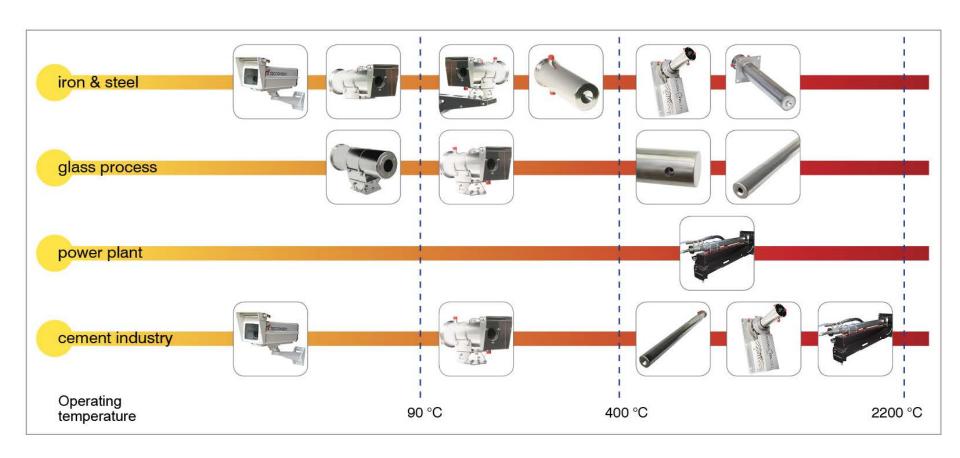
air | acquate | camte | sondate | inte | oute | cabte







HIGH TEMPERATURE CAMERA SYSTEMS

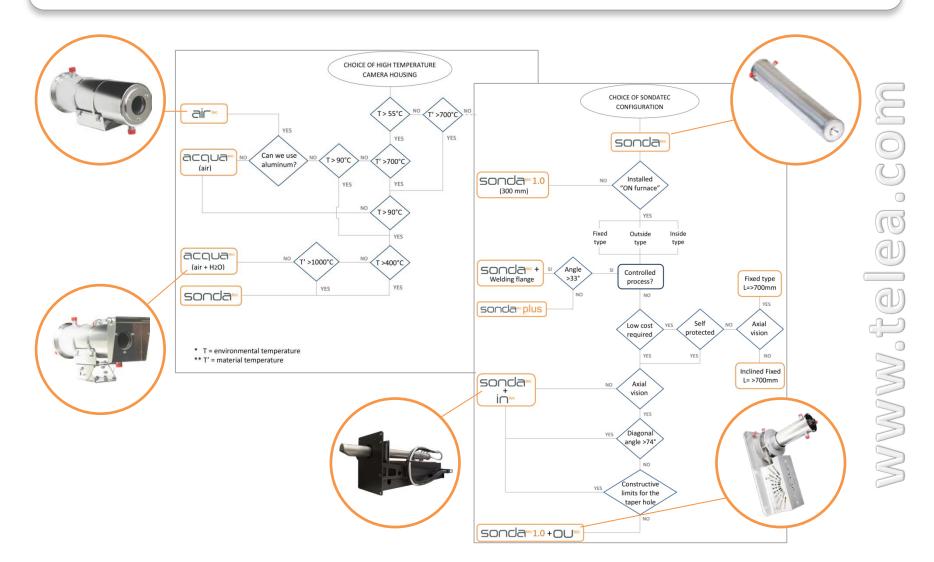


To be used when environmental temperature is >55°C.





CHOICE OF CAMERA HOUSING







SONDATEC: BASIC SYSTEM COMPONENTS CONFIGURATION







CAMTEC: MAIN FEATURES

 Camera sensor with special feature for high contrasts and strong radiation

MIL Std. multipolar connector

ce —

Easy fit all in one device





Optical lens with aperture <3mm diameter



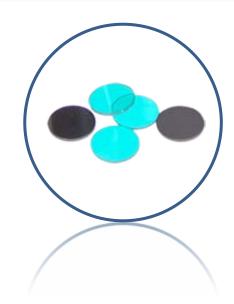




CAMTEC: ACCESSORIES

Optical infrared glass filters, NG9, BG12, BG18
For high light level application i.e

(glass furnace, VOD)





High temperature sapphire glass lens protection For very dust environments (melth shop)

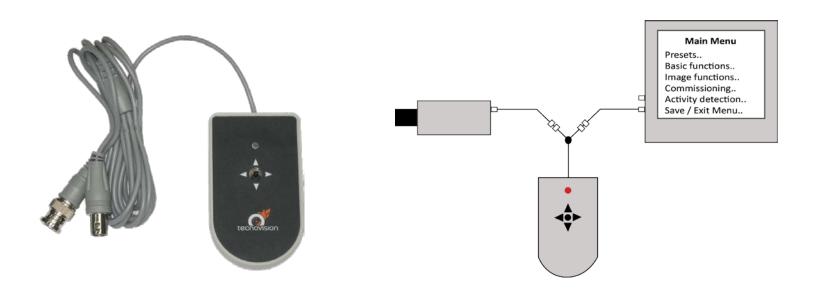






CAMTEC: ACCESSORIES

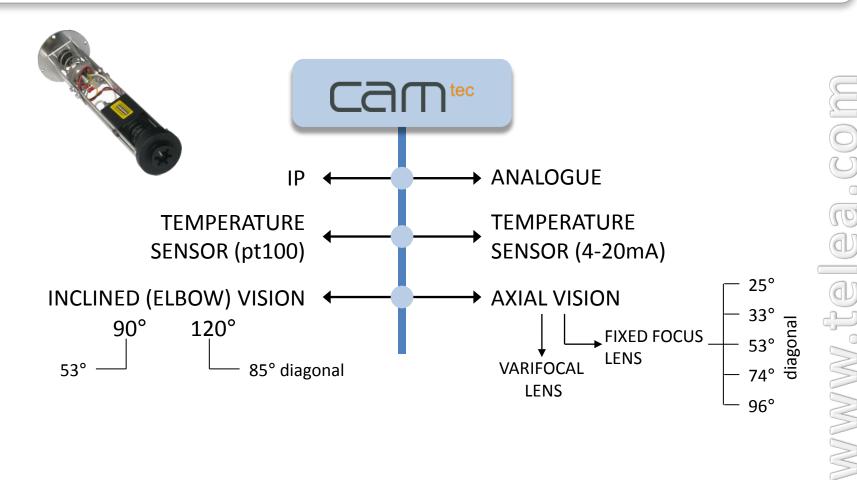
Aware of the difficulties and of the critical urgencies that characterize industrial environments, the settings, operation and control of the cameras can be easily done from portable camera control unit (Up The Coax) using coaxial video cable, the same of video signal transmission.







CAMTEC: BASIC SYSTEM COMPONENTS CONFIGURATION







SONDATEC: MAIN FEATURES



Employment of industrial parts







STEELS CHARACTERISTICS

S/C	Costs	Oxigen corrosion	Acid corrosion	High temperature
AISI304				
AISI310				
AISI316				
HASTELLOY C276				



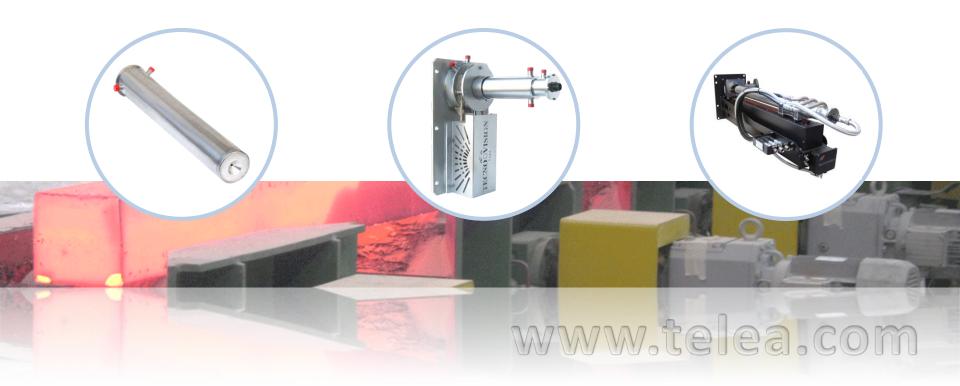


ON FURNACE / BOILER APPLICATION

FIXED INSIDE TYPE

EXTERNAL WALL MOUNTED

INSIDE TYPE WITH RETRACTION DEVICE



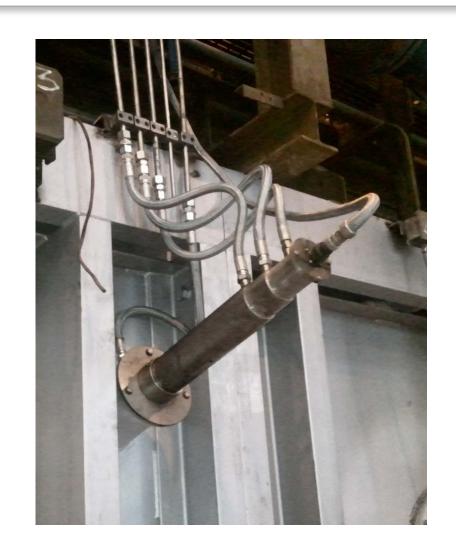




EXAMPLES OF INSTALLATION

FIXED INSIDE TYPE









EXAMPLES OF INSTALLATION

EXTERNAL WALL MOUNTED









EXAMPLES OF INSTALLATION

INSIDE TYPE WITH RETRACTION DEVICE







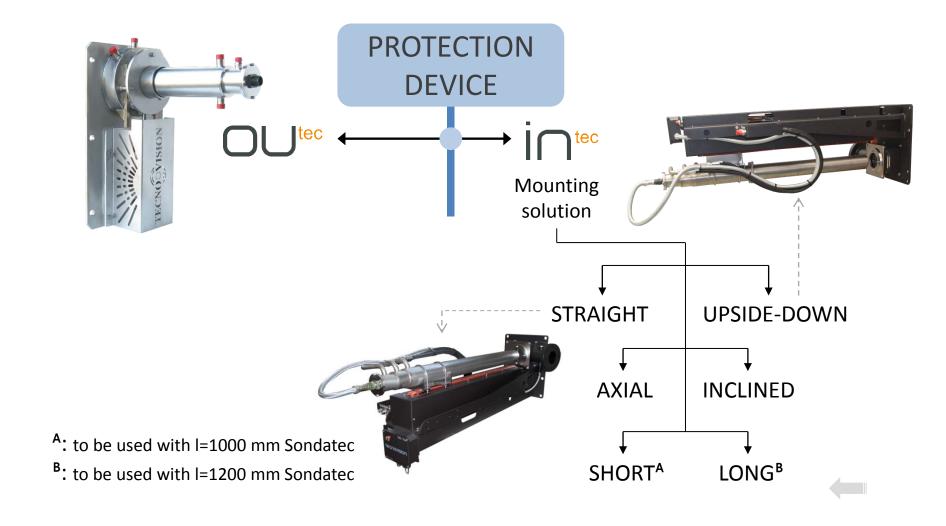
ADVANTAGES & DISADVANTAGES

	FIXED INSIDE TYPE	EXTERNAL WALL MOUNTED	INSIDE TYPE WITH RETRACTION DEVICE
LOW COST	X		
SELF PROTECTED		X	X
AXIAL HOLE REQUIRED	X		Х
WIDE ANGLE OF VIEW AVAILABLE	Χ		X
MORE EXPENSIVE			X
NOT PROTECTED	X		
CONICAL HOLE REQUIRED		X	





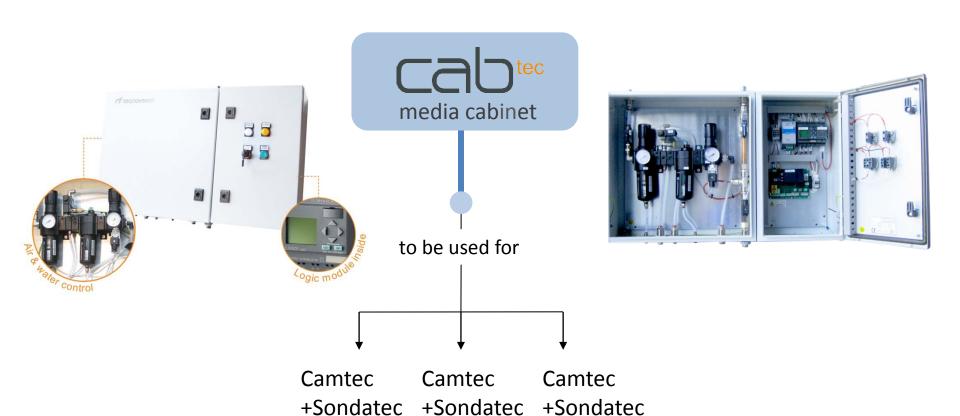
ADVANCED COMPONENTS







ADVANCED COMPONENTS



+Outec

+Intec





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CODES TABLE OF CONTROL CABINETS

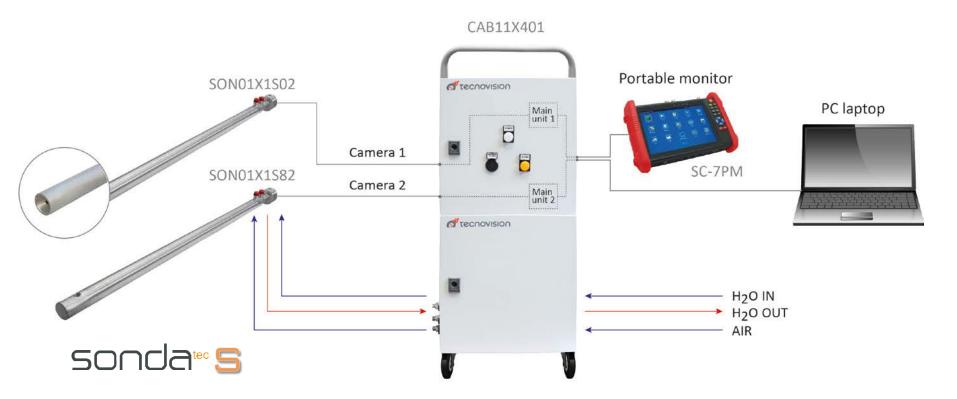
at	tec	PRESSURE REGOLATOR WITH GAGE	DUAL PRESSURE REGOLATOR WITH TWO GAGES	TWO STAGES AIR FILTER	AIR / N2 FLOW METER WITH FLOW REGOLATOR	PRESSURE AIR SWITCH	2 WAY ELECTROVALVE	5 WAY ELECTROVALVE	H2O FLOW SWITCH (ON/OFF)	H2O FLOW SWITCH WITH VISIBLE LEVEL (ON/OFF)	H2O FLOW METER (WITHOUT DISPLAY)	H2O FLOW METER (WITH DISPLAY)	H2O THERMOSTAT	H2O TEMPERATURE SENSOR (PT100 / PT1000)	H2O TEMPERATURE SENSOR (4-20 mA)	CABINET HEATER	CAMERA TEMPERATURE SENSOR MANAGEMENT	INTEC OBLO' TEMPERATURE SENSOR MANGEMENT	DIGITAL LOGIC MODULE WITH DISPLAY / ETHERNET	2 IN ANALOGUE EXPANSION MODULE	FURTHER 2 IN ANALOGUE EXPANSION MODULE	ADDITIONAL INPUT / RELAY MODULE	OSD MODULE	CAMERA MAIN UNIT
	CAB11X100L		Х	Х		х	Х		X	•			Х	91					Х					•
	CAB11X100A		х	х		х	Х		х					Х			Х		х	Х				
	CAB11X100B		X	X		X	X		×					X			x		x	X		X	x	
	CAB11X101A		X	X		X	X				х			X			X		X	X				
S	CAB11X101B		X	X		X	X				X			X			X		X	X		х	х	
世	CAB11X101C		X	X		X	X					Х		X			X		X	x		X	X	
OUTEC	CAB11X101D		X	X		X	X				х	7.		X			X		X	X		X		
0	GAB11X102D		X	X		X	×		X		^			x			X		X	x		×		
	CAB11X102E		X	X		X	X		X					X			^		^	^		^		
	CAB11X103E		X	X		X	X		X					^	Х									
	CAB11X103E		X	X		X	X		^			2	2		^									
			×	×	+	×	^	Х	+	х	+		X	+	+		-		V			_		
	CAB11X200L		X	X		×							^	v		v	٧,		X					
	CAB11X201A							X		X				X		X	X	v	X	X			34	
	CAB11X201D		X	X		X		X		Х						Α		Х	X			X	Х	
	CAB11X202A		Х	Х		X		X			X			Х			Х		X	X		X	100	
U	CAB11X202B		X	X		X		X				X		X		X	X		X	X	**	X	X	
E	CAB11X202C		X	Х		X		X				X		Х		X	X	X	X	X	X	X	X	
INTEC	CAB11X202D		Х	Х		Х		Х				X		X		X	X	Х	X	Х	Х	X	х	
	CAB11X202E											X		х		X	X		Х	X		X		
	CAB11X292G		Х	Х		X		Х			X			X		X	X	X	X	Х	Х			
	CAB11X203A		Х	Х		Х		X			Х			X		Х	X		X	Х				
	CAB11X203D		Х	Х		Х		Х			Х			Х		Х	Х	Х	X	Х	Х	Х	Х	
	CAB11X203L		Х	Х		Х		Х			Х			Х					Х	х				
	CAB11X300B	2000															X		X	х		X	Х	
	CAB11X301A	X		Х		Х			Х					Х			X		X	х				
	CAB11X301B	Х		Х		Х			Х					Х			Х		X	х		Х	Х	
	CAB11X302B	X		Х		Х	Х		0.00					Х	1 800		Х		Х	X		X	Х	
	CAB11X303E	X		Х		X			X						Х									
O	CAB11X304B	X		Х		Х						X		Х			Х		х	х		Х	Х	
Ψ	CAB11X304E		X	Х		2						X			Х									
SONDATEC	CAB11X305F										2			2			X		2	X	X			
	CAB11X306A	Х		Х		X					x			х			X		X	X				
	CAB11X306B	X		Х		X					X			X			X		X	X		Х	Х	
	CAB11X306E	Х		Х		X						Х		Х										
	CAB11X307A	X		Х	X						X			X			X		X	Х				
	CAB11X310E	X			X						х				X									
	CAB11X320E				Х						X				Х									
	CAB11X388H	2		2		2											2		Х	Х				
	CAB11X392G		Х	Х		2		X			2			2			Х		Х	Х	Х			
PORTABLE	CAB11X400A	X		Х		Х					X			X			Х		Х	х				Х
SOLUTION	CAB11X401A	X		X		X					X			X			X		X	X				2





PORTABLE SOLUTION: "S" SERIES

Telea Tecnovision has developed a portable system ideal for mobile inspection in high temperature environments.





Camtec "S" + Sondatec "S"



"S" SERIES: BASIC SYSTEM COMPONENTS CONFIGURATION



Compressed air filter unit Interconnection kit Special cable Junction box





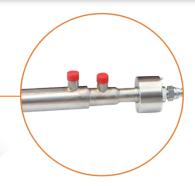
"S" SERIES

HD ready 1280x720p



6mm air — pressurized aperture





 Water cooling circuit made with three jackets

Housing made of SS316L



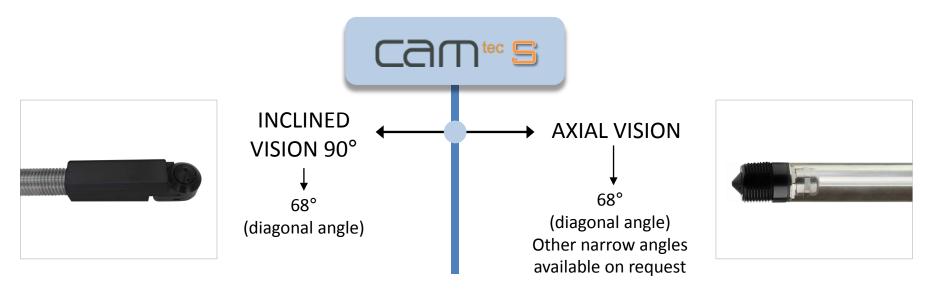
 Easy fit all in one camera device







CAMTEC: "S" SERIES CONFIGURATION

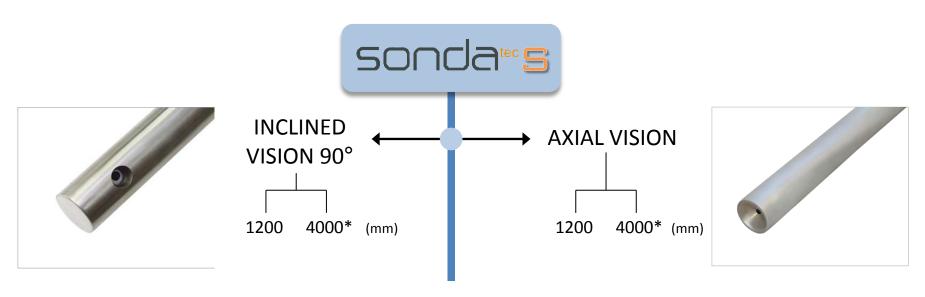


- HD resolution IP camera
- Length = 1200mm (Other on request)
 - Temperature Sensor (PT100)
- Requires main control unit supplied in separate JBX or Cabinet (CABTEC)





SONDATEC: "S" SERIES CONFIGURATION



- Diameter = 45mm
- Air & Water cooling system
 - Light weight

"S" series has been developed for all applications that require a small entrance diameter.

Thanks to this feature it is also ideal for mobile inspections.

^{*}Other lengths available on request.





CABTEC: "S" SERIES CONFIGURATION

Tecnovision

of tecnovision



 Hydraulic, pneumatic and electrical controls in two segregated units

 Special trolley for easy movements and mobile inspections

- Alarm control for camera's over temperature
- Alarms status on LCD display on cabinet

- Main unit of control camera
- Temperature camera sensor management





AIRTEC: MAIN FEATURES



Air cooled pressurized housing
Usefull for Analogue camera, IP camera, Infrared camera
Up to 90°C





AIRTEC: BASIC SYSTEM COMPONENTS CONFIGURATION







• AIR COOLED + AIR BARRIER

• WINDOW:

Flat glass | Convex glass | Germanium | without window
Ø30 mm

Ø55 mm

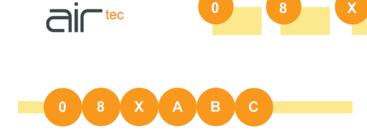
• POWER SUPPLY:
230Vac | 12Vdc/24Vac | PoE+ | Ø

L=300 mm ← L=350 mm





AIRTEC: BASIC SYSTEM COMPONENTS CONFIGURATION



Length

3 = 300 mm

5 = 350 mm

Power Supply

0 = 230 Vac

2 = 12Vdc / 24Vac

3 = PoE

 $9 = \emptyset$

0 = Flat Glass

1 = Convex Glass

Window

3 = Germanium (30Ø usable)

5 = Germanium (55Ø usable)

9 = without window













ACQUATEC: MAIN FEATURES

acquatec







Air or Air&Water cooled pressurized housing

Usefull for Analogue or IP camera,
Infrared camera and various instrumentation

Up to 400°C







ACQUATEC: BASIC SYSTEM COMPONENTS CONFIGURATION





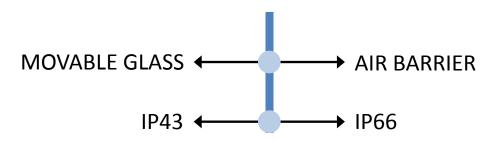


2.0

OPERATING TEMPERATURE UP TO:

• COOLING:

AIR + H2O | ONLY AIR | ONLY H2O | NO COOLING

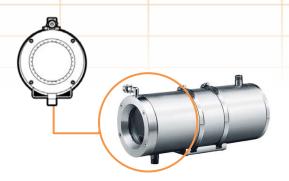






ACQUATEC: BENCHMARK

Compare products	Competitors									
	Videotec	Tecnosystem	Global proof	TELEA TECNOVISION						
External Ø	164 mm	168 mm	168 mm	129 mm						
Window Ø	95 mm	97 mm	97 mm	55 mm						
Air pressurized	No	No	No	Yes						
Window Cleaning	Holes	Holes	Holes	Knife Air						



Example of similar product











ACQUATEC: ADVANTAGES

Compact overall dimensions

smart for integration with PTZ

Smaller window

less internal overheating due to irraditiation

Knife air barrier

more efficently cleaning

Pressurized air cooling system

more releability







www.telea





NEW PROJECTS UNDER DEVELOPMENT



- Only Air cooled
- Lower diameter: 50mm only



- Only Air cooled
- Lower diameter: <30mm only</p>
- Low cost solution for Glass market



- Protection device with retraction system
- Slim version

Q217



Q118





PRE-SALE ENGINEERING ASSISTANCE

Support on wall & refractory preparing activity

Sketch of mounting system

Locating camera on furnace

