

HIGH TEMPERATURE CAMERA

sonda^{tec} high temperature camera housing

Air cooled high temperature vision systems



SON01X125

SONDATEC Series

Operational description

SONDATEC housing series have been developed to allow the use of television camera in high temperature environments, as glass process, cement industry, iron&steel plant and boiler. These high-temperature camera systems provide clear, crisp images of the combustion process in boilers, furnaces, kilns, incinerators and other combustion chambers. With the real-time image provided, operators and engineers can monitor the proper flow of fuel and raw materials, reduce emissions, reduce fuel consumption, speed up boiler light off and improve safety.

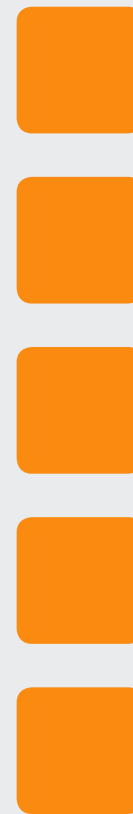
SON01X125 is 1200mm long and has a diameter equal to 89mm. It is typically endowed with axial vision and it can allow diagonal angles of vision up to 105°.

Depending on the behavior of the chemicals involved in the process, SONDATEC camera housing should be made by special stainless steels, high-resistance alloys or by using superficial protections.

SONDATEC housings 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.

SONDATEC housing is designed to be mounted either directly through the wall of a furnace or by using OUTEK series, a wall fixing medium endowed with a protective shutter type “porthole” that increases safety and easy maintenance.

If it is requested a penetration inside the furnace, SONDATEC housing may be provided with retraction devices, INTEC series: in case of system failure, or failure of the cooling supply, the retraction device automatically removes the housing from the furnace and seals the furnace porthole.



HIGH TEMPERATURE CAMERA

Technical specification

Dimensions

Diameter:	89 mm
Length:	1200 mm
Angle of vision:	axial, max horizontal 105°
Camera:	Colour or B/N CAMTEC series
Electric connections:	multipolar Connector MIL_STD or with armoured flexible tube.

Air cooling

Connection:	1/2" M BSPP
Temperatures IN:	35°C max
Consumption:	from 70 Nm ³ /h
Pressure entry:	from minimum 6 bar
Quality:	service air

Air for cooling and cleaning lens

Connection:	3/8" M BSPP
Temperature IN:	35°C max
Consumption:	around 3 Nm ³ /h (1*)
Pressure entry:	from 1 bar to 3 bar, maximum 4 bar (1*)
Quality:	Instrumental Air ISO 8573-1 Classe 1.2.1

Accessories

SON01F___	Wall furnace mounting flange adaptor
SON01H000	Wall mounting bracket
JBX003	Video and power junction box
CAB11X202	Air and power control cabinet
GFA13X000	Compressed air filter unit with pressure regulator and manometer

Correlated products

CAM12X1___	Video camera for SONDATEC series
INT02X___	Automatic retraction device
CAM22X___	

Notes

(1*) Data are indicative and depend of process' temperature and application. For more information, please contact our engineers.