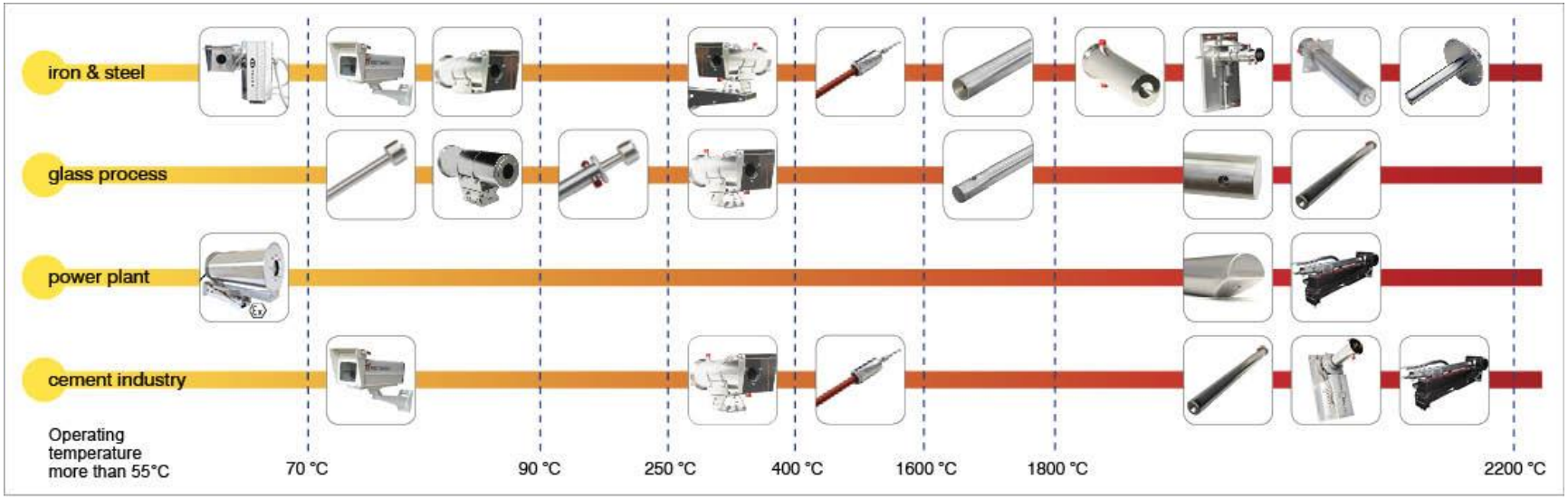
# HIGH TEMPERATURE CAMERA SYSTEMS

Telea Tecnovision has developed a wide range of high temperature products designed for industrial environments.

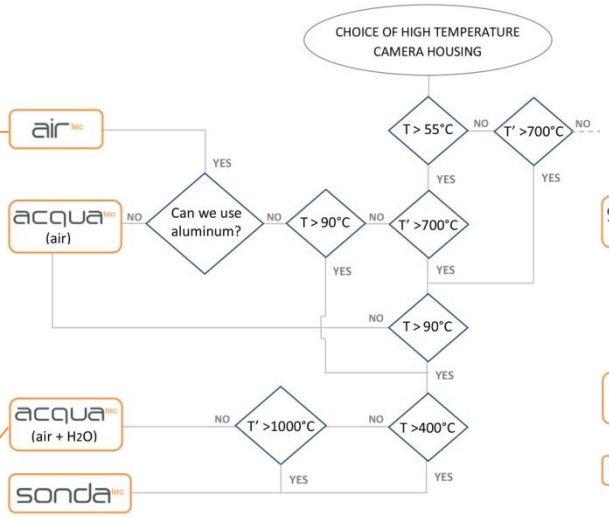
airtec | acquatec | camtec | sondatec | intec | outec | cabtec

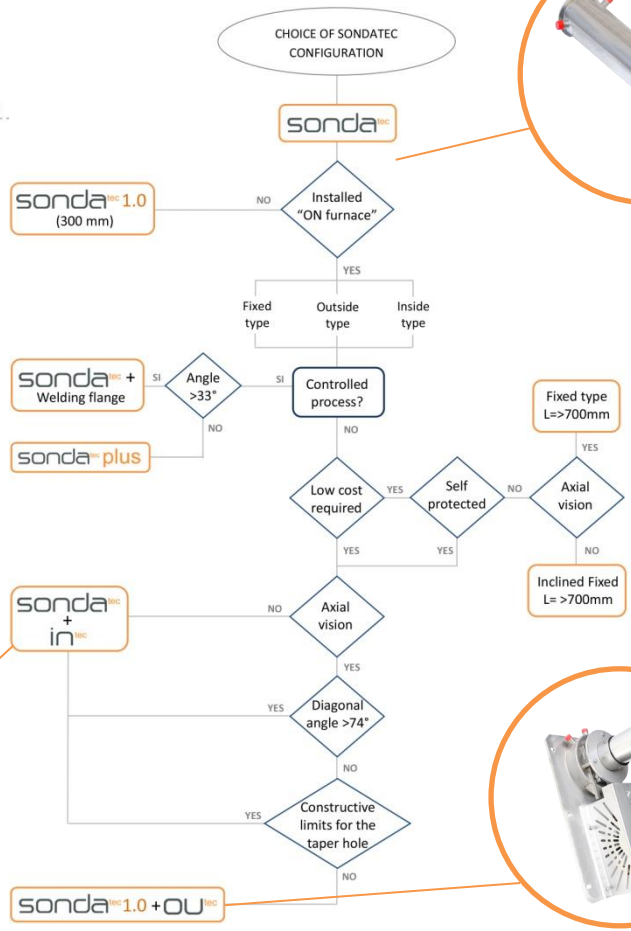
# HIGH TEMPERATURE CAMERA SYSTEMS

Dedicated solutions for each sector of application have been designed, satisfying the temperature, dust and criticality requirements of each environment.



# CHOICE OF CAMERA HOUSING




How to define the most suitable solution?
*Example of study*

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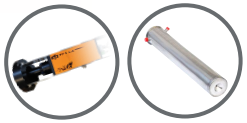
# HIGH TEMPERATURE CAMERA SYSTEMS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

- Cameras for high temperature video systems - IP type - CAMTEC
- Cameras for high temperature video systems - Analog type – CAMTEC
- High temperature vision systems - SONDATEC



## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

- Portable high temperature vision systems - SONDATEC ‘K’ & SONDATEC ‘V’

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

- Air & water cooled pressurized camera housing - ACQUATEC

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 250°C / 90°C

- Air cooled pressurized camera housing - SONDATEC ‘W’
- Air cooled pressurized camera housing - AIRTEC

## ▶ PROTECTION DEVICES & CONTROL CABINETS

- Protection devices fixed type - OUTEC
- Protection devices with retractable system - INTEC
- Control cabinet - CABTEC

www.telea.com

# HIGH TEMPERATURE CAMERA SYSTEMS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

cam tec + sonda tec + kit tec

BASIC SYSTEM

COMPONENTS CONFIGURATION

ADDITIONAL PROTECTION DEVICES
& CONTROL CABINET

*Depending on the application may be not required

+ ou tec or in tec + cab tec

www.telea.com

## ▶ PROTECTION DEVICES & CONTROL CABINETS

# CAMTEC: BASIC SYSTEM COMPONENTS CONFIGURATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

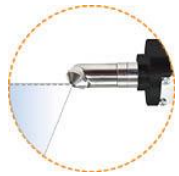
Industrial high temperature camera designed for use with Sondatec housings.

- Technology:
  **IP BASED** ⟷ or ⟷ **ANALOG**
- Temperature sensor:
  **Pt100** ⟷ or ⟷ **4-20mA**
- Type of view:
  **Axial** ⟷ or ⟷ **Inclined** (elbow) vision 90° or 120°

**Axial**
- VARIFOCAL LENS
- FIXED FOCUS LENS
  - 25°
  - 33°
  - 53°
  - 74°
  - 96°

  diagonal

**Inclined** (elbow) vision 90° or 120°
- 53°
- 85° diagonal



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# CAMTEC: IP VERSION 21X series

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

FULL HD

16:9

WEB CTRL

PoE

H.265 H.264


Powered by SONY Starvis with Exmor R module

SONY STARVIS Exmor R CMOS Sensor

## *ADVANTAGES:*

- Native network camera based;
- Full HD CMOS image sensor with resolution up to 1920x1080 pixels;
- IR-CUT filter;
- Multi-streaming and multi-encoding;
- Setting, operation and control through browser and camera's web server;

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# CAMTEC: IP VERSION 21X series

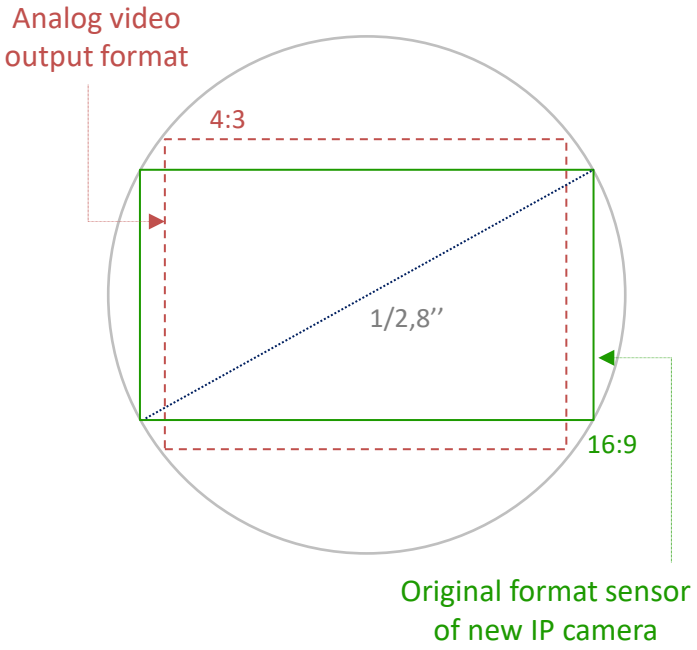
▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

| Technical Specifications | | |
|---|---|---|
| SENSOR | Sensor type | 1/2.8" Sony Starvis 2 IMX662 CMOS image sensor |
| | Resolution | Full HD 1920x1080 |
| | Day/Night | Movable IR-cut filter |
| | Minimum Illumination | 0,01Lux @F1.2 (ACG On) / B/W: 0Lux (IR On) |
| LENS | Type | Manual (CS mount) |
| | Focal lens | Various (see the table below) |
| | Video compression | H.265; H.264; |
| | Streaming | Multiple |
| | Processor | Multimedia video processor, FPGA |
| | Analog signal output | CVBS 16:9 type (only for CAM21X----D models) |
| | Alarm management | Websocket, FTP, Browser |
| | Protocols | HTTP, HTTPS, TCP/IP, UDP, RTP, FTP, RTCP, RTSP, NTP, DHCP, DNS, DDNS, SNMP, SSL/TLS, UPNP, PPPOE, ONVIF |
| | Settings | Day/Night, Low light, >100dB WDR, 3DNR, Image setting (tonal, brightness, sharpness, contrast, saturation, gamma, BLC), Image mirror, Image flip, HLC, Slow shutter, White balance |
| | Connectors | Through MIL Std connector: 10/100 Base-T Ethernet; power supply, temperature sensor signal; [Only for version CAM21X----D, dual output IP+Analog available] |
| POWER | Power Supply | 12-24VDC / 24VAC or PoE IEEE802.3af Class 2 (for CAM21X----P version only) |
| | Power Consumption | <5 W |

# COMPARISON OLD ANALOG CAMERA / NEW IP CAMERA

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

## *ANGLE OF VIEW: WHAT CHANGES?*




OLD ANALOG

| ANGLE OF VIEW TABLE WITH OLD ANALOG CAMTEC CAMERA, 4:3 ratio | | | |
|---|---|---|---|
| DIAGONAL ANGLE | LENS TYPE | VERTICAL ANGLE | HORIZONTAL ANGLE |
| 94° | 2,8 mm | 66° | 81° |
| 78° | 3,6 mm | 53° | 67° |
| 74° | 4 mm | 48° | 61° |
| 53° | 6 mm | 33° | 44° |
| 33° | 10 mm | 20° | 27° |
| 18° | 18 mm | 11° | 15° |
| 6° | 50 mm | 4° | 5° |

NEW IP CAMTEC

| ANGLE OF VIEW TABLE WITH IP CAMTEC CAMERA: 1/2,8'' Sensor, 16:9 ratio | | | |
|---|---|---|---|
| DIAGONAL ANGLE | LENS TYPE | VERTICAL ANGLE | HORIZONTAL ANGLE |
| 94° | 2,8 mm | 59° | 98° |
| 78° | 3,6-18 mm | 44° - 8° | 74° - 15° |
| 74° | 4-20 mm | 41° - 9° | 72° - 17° |
| 33° | 10-50 mm | 18° - 3° | 31° - 6° |

| LENS TYPE | RESOLUTION | VERTICAL ANGLE | HORIZONTAL ANGLE |
|---|---|---|---|
| 3,3 mm inclined | 1920 x 1080 px | 46° | 72° |
| 3,3 mm axial | 1920 x 1080 px | 45° | 73° |

Rev.05 dated 27/03/2025

# CAMTEC: MAIN FEATURES

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

- Camera sensor with special feature for high contrasts and strong radiation
- Easy fit all in one device


- MIL Std. multipolar connector

- Optical lens with aperture <3mm diameter

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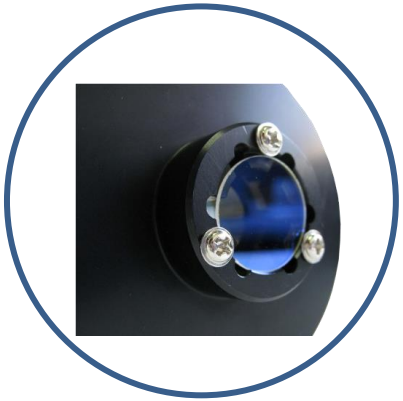
# CAMTEC: ACCESSORIES

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Optical infrared glass filters, NG9, BG12, BG18
for high light level application
(glass furnace, VOD)



High temperature sapphire glass lens protection
for very dust environments
(melt shop)

# SONDATEC: MAIN FEATURES

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Industrial housing SONDATEC for camera CAMTEC for working up to 2200°C, cooled by water and compressed air.

- Water cooling circuit made with three jackets
- Air pressurized for protection and lens cleaning
- Housing made with different types of Stainless Steel
- Employment of industrial parts

# SONDATEC: COMPARISON VERSION 1.0 and 2.0

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

External Ø 101,6mm

1.0

VS

External Ø 88,9mm

2.0

| | 1.0 | 2.0 |
|---|---|---|
| STRENGTHS | ▪ The most robust of the range;<br>▪ Ideal for very dusty environments;<br>▪ Ideal for environments with a strong presence of liquid metal projections; | ▪ Very effective cooling circuit (triple jacket);<br>▪ Ideal for INTEC on-board applications;<br>▪ Available with axial, 60° or 45° inclined view;<br>▪ Wide availability of lengths (700mm to 4000mm); |
| DISADVANTAGES | ▪ Bulky dimensions for wall applications (no INTEC);<br>▪ Weight;<br>▪ Max length 700mm;<br>▪ Available only with axial view; | ▪ Not suitable for environments with strong presence of liquid metal or dust projections (protective glass not applicable); |

# SONDATEC: DIFFERENT MODELS AVAILABLE

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Different type of Sondatec housings are available depending on the application to be controlled:

- Different type of diameters available;
- Different lengths available (from 300 up to 4000mm);
- Air and water cooled (special version only air cooled available too);
- Special versions with welded or adjustable flange for coupling to the furnace wall;
- Axial or inclined view;
- Different type of frontal flanges;

# STEEL FEATURES



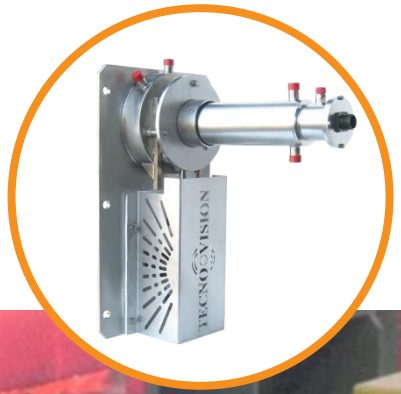
| S/C | Costs | Oxigen corrosion | Acid corrosion | High temperature |
|---|---|---|---|---|
| AISI304 |  |  |  |  |
| AISI310 |  |  |  |  |
| AISI316 |  |  |  |  |
| HASTELLOY C276 |  |  |  |  |

# ON FURNACE / BOILER APPLICATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

FIXED INSIDE TYPE

EXTERNAL WALL MOUNTED

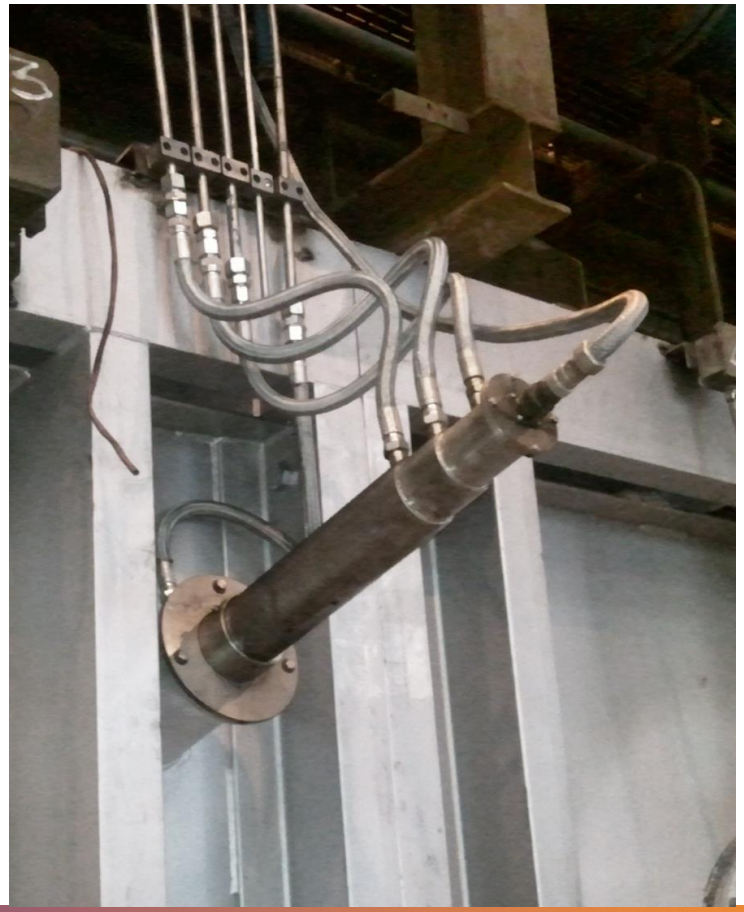



INSIDE TYPE WITH RETRACTION DEVICE

# EXAMPLE OF INSTALLATION

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

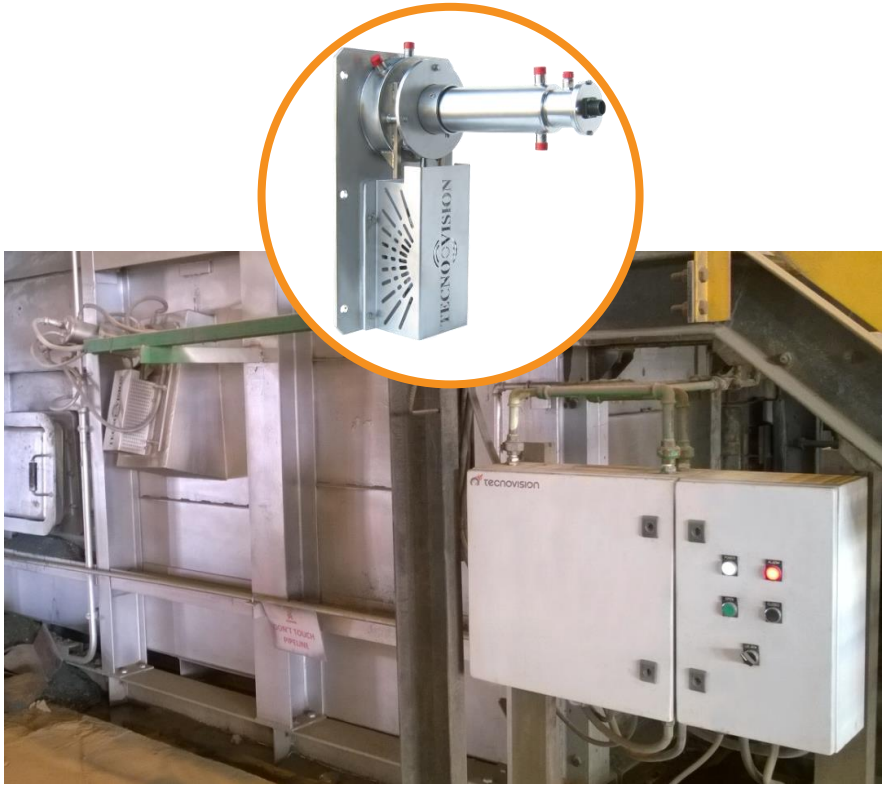
FIXED INSIDE TYPE



# EXAMPLE OF INSTALLATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

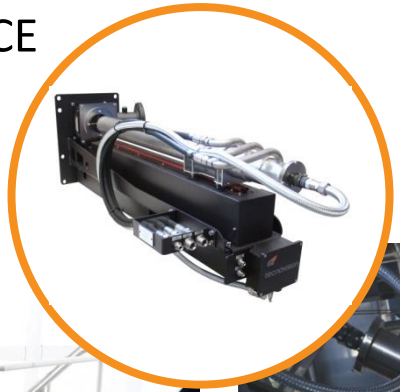
## EXTERNAL WALL MOUNTED

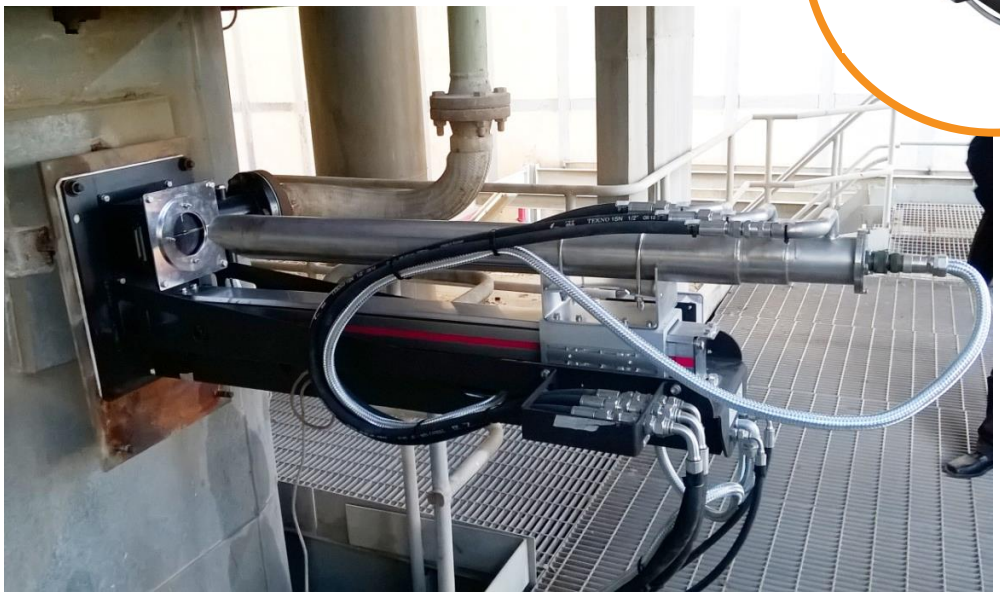


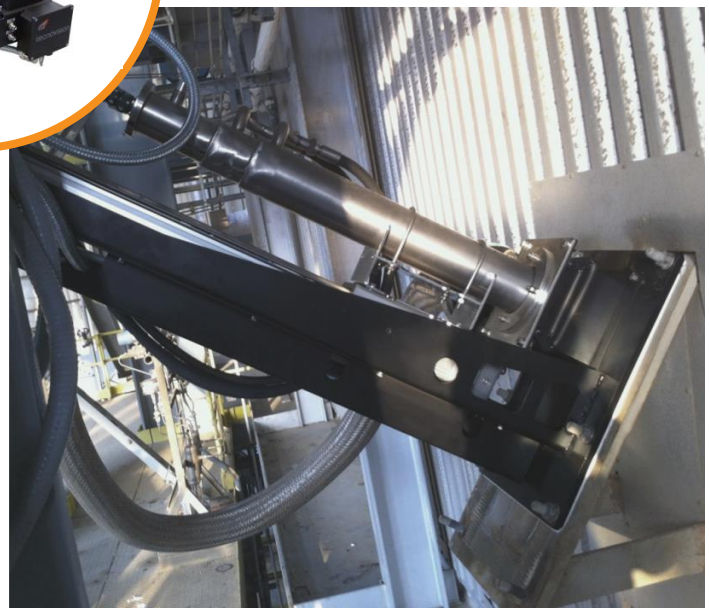

# EXAMPLE OF INSTALLATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

INSIDE TYPE WITH RETRACTION DEVICE

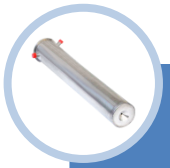






# ADVANTAGES & DISADVANTAGES

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C



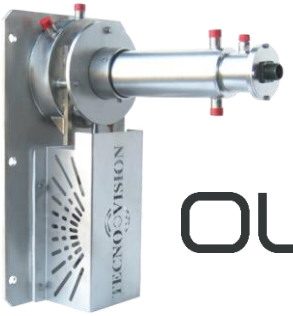
| | FIXED INSIDE TYPE | EXTERNAL WALL MOUNTED | INSIDE TYPE WITH RETRACTION DEVICE |
|---|---|---|---|
| LOW COST | X | | |
| SELF PROTECTED | | X | X |
| AXIAL HOLE REQUIRED | X | | X |
| WIDE ANGLE OF VIEW AVAILABLE | X | | X |
| MORE EXPENSIVE | | | X |
| NOT PROTECTED | X | | |
| CONICAL HOLE REQUIRED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

# ADVANCED COMPONENTS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

### PROTECTION DEVICES & CONTROL CABINETS

Telea has developed a range of additional protection devices to be used with CAMTEC & SONDATEC products:




OUtec

Fixing and protection device to be installed on furnace wall, complete with [gate]shutter and high temperature pneumatic cylinder.

intec

Advancement/withdrawal system with pneumatic actuator provided with self supporting framework with rails and porthole plate to fixing to furnace/boiler wall.

- Mounting:
  **STRAIGHT** ⟷ or ⟷ **UPSIDE-DOWN**
- Type of vision:
  **AXIAL** ⟷ or ⟷ **INCLINED**

# ADVANCED COMPONENTS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

## PROTECTION DEVICES & CONTROL CABINETS

Wide range of control cabinets designed for the control and protection of SONDATEC / OUTEC / INTEC range of products. The internal, programmable digital controller provides all the required hydraulic, pneumatic and electrical controls via a series of sensors and instrumentation.


cabtec

to be used for

| | | |
|---|---|---|
| Camtec + Sondatec | Camtec + Sondatec + Outec | Camtec + Sondatec + Intec |

# ADVANCED COMPONENTS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

## PROTECTION DEVICES & CONTROL CABINETS

cabtec

Cabinet remote control function available thanks to dedicated web page.

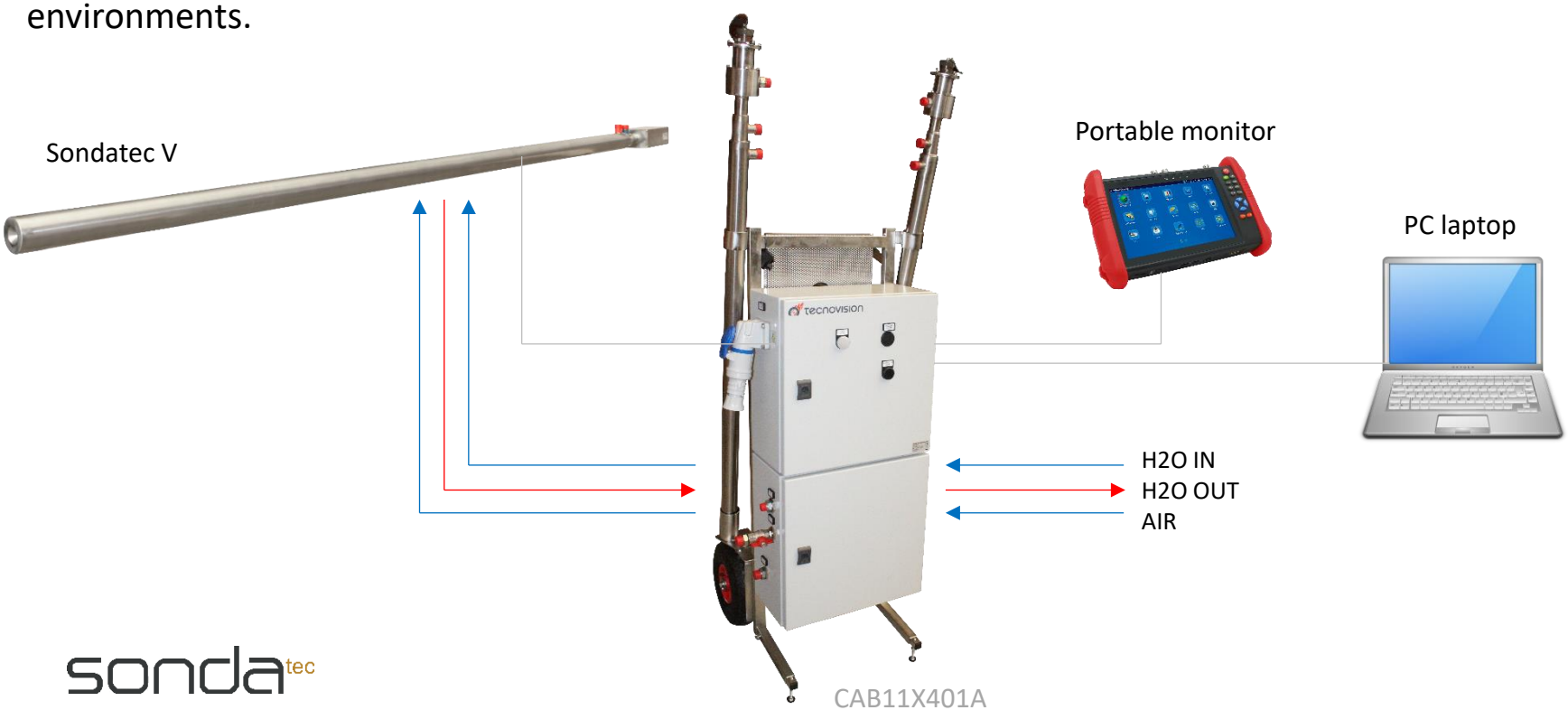
# CODE TABLES OF CONTROL CABINETS

| | | PRESSURE REGOLATOR WITH GAGE | DUAL PRESSURE REGOLATOR WITH TWO GAGES | TWO STAGES AIR FILTER | AIR / $N_2$ 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 MANAGEMENT | 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 | RJ45 SOCKETS FOR ETHERNET CABLE | PREDISPOSED FOR SWITCH #OBOX | USB SERVER | SW FOR MODBUS COMMUNICATION | TRANSDUCER FOR PT100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OUTEC | CAB11X100L | | X | X | | X | X | | X | | | | X | | | | | | | X | | | | | | | | | |
| | CAB11X101A | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | | | | | | | |
| | CAB11X101AP | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | | | X | | | | |
| | CAB11X101AR | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | | | X | X | | | |
| | CAB11X101AM | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | | | X | X | | X | |
| | CAB11X101B | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X101C | | X | X | | X | X | | | | | X | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X101D | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | X | | | | | | |
| | CAB11X101DP | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | X | | X | | | | |
| | CAB11X101DR | | X | X | | X | X | | | | X | | | X | | | X | | | X | X | | X | | X | X | | | |
| | CAB11X102E | | X | X | | X | X | | X | | | | | X | | | | | | | | | | | | | | | |
| | CAB11X103E | | X | X | | X | X | | X | | | | | | X | | | | | | | | | | | | | | |
| | CAB11X104F | | X | X | | X | 4 | | | | | 4 | | 4 | | | X | | | 2 | X | | | | | 4 | | | |
| | CAB11X105F | | X | X | | 2 | 2 | | | | | 2 | | 2 | | | 2 | | | | X | X | X | X | | | | | | |
| | CAB11X122AR | | X | X | | 2 | 2 | | | | 2 | | | 2 | | | 2 | | | X | X | | | | X | X | | | |
| INTEC | CAB11X200L | | X | X | | X | | X | | X | | | X | | | | | | | X | | | | | | | | | |
| | CAB11X202A | | X | X | | X | | X | | | X | | | X | | | X | | | X | X | | | | | | | | |
| | CAB11X202AP | | X | X | | X | | X | | | X | | | X | | | X | | | X | X | | | | X | | | | |
| | CAB11X202PP | | X | X | | X | | X | | | | | | | | | X | | | X | X | X | | | X | | | | |
| | CAB11X202B | | X | X | | X | | X | | | X | | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X202D | | X | X | | X | | X | | | | X | | X | | X | X | X | | X | X | X | X | X | | | | | |
| | CAB11X202E | | | | | | | | | | | X | | X | | X | X | | | X | X | | X | | | | | | |
| | CAB11X292G | | X | X | | X | | X | | | X | | | X | | X | X | X | | X | X | X | | | | | | | |
| | CAB11X292P | | X | X | | X | | X | | | X | | | X | | X | X | X | | X | X | X | | | | | | | |
| | CAB11X203A | | X | X | | X | | X | | | X | | | X | | X | X | | | X | X | | | | | | | | |
| | CAB11X203D | | X | X | | X | | X | | | X | | | X | | X | X | X | | X | X | X | X | X | | | | | |
| | CAB11X203L | | X | X | | X | | X | | | X | | | X | | | | | | X | | | | | | | | | |
| | CAB11X222AR | | X | X | | 2 | 2 | 2 | | | | | | | | X | | X | | X | X | | | | X | | | | |
| SONDATEC | CAB11X300B | | | | | | | | | | | | | | | | X | | | X | | | X | X | | | | | |
| | CAB11X302B | X | | X | | X | X | | | | | | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X303E | X | | X | | X | | | X | | | | | | X | | X | | | | | | | | | | | | |
| | CAB11X304B | X | | X | | X | | | | | | X | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X304E | | X | X | | 2 | | | | | | X | | | X | | X | | | | | | | | | | | | |
| | CAB11X305F | | | | | | | | | | 2 | | | 2 | | | X | | | 2 | X | X | | | | | | | |
| | CAB11X306A | X | | X | | X | | | | | X | | | X | | | X | | | X | X | | | | | | | | |
| | CAB11X306AP | X | | X | | X | | | | | X | | | X | | | X | | | X | X | | | | X | | | | |
| | CAB11X306B | X | | X | | X | | | | | X | | | X | | | X | | | X | X | | X | X | | | | | |
| | CAB11X306EP | X | | X | | X | | | | | | X | | | | | | | | | | | | | | | | | |
| | CAB11X307A | X | | X | X | | | | | | X | | | X | | | X | | | X | X | | | | | | | | |
| | CAB11X307BP | X | | | 2 | | | | | | 2 | | | 2 | | | X | | | X | X | X | | | X | | | | |
| | CAB11X310E | X | | | X | | | | | | X | | | | X | | | | | | | | | | | | | | |
| | CAB11X320E | | | | X | | | | | | X | | | | X | | | | | | | | | | | | | | |
| | CAB11X370EP | 2 | | | 2 | 2 | | X | | | | | | | | | | | | | | | | | 1 | | | | 1 |
| | CAB11X388H | 2 | | 2 | | 2 | | X | | | | | | | | | 2 | | | X | X | | | | | | | | |
| | CAB11X392G | | X | X | | 2 | | | | | 2 | | | 2 | | | X | | | X | X | X | | | | | | | |
| PORTABLE SOLUTION | CAB11X400A | X | | X | | X | | | | | X | | | X | | | X | | | X | X | | | X | | | | | |
| | CAB11X401A | X | | X | | X | | | | | X | | | X | | | X | | | X | X | | | 2 | | | | | |

# PORTABLE SOLUTION: “K” and “V” SERIES

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

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




CAB11X401A

# “K” and “V” SERIES: BASIC SYSTEM COMPONENTS CONFIGURATION

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

camtec K + sondatec K + kittec K + JBX or cabtec

Compressed air filter unit

Camtec “K” + Sondatec “K”


Interconnection kit
Special cable

Junction box

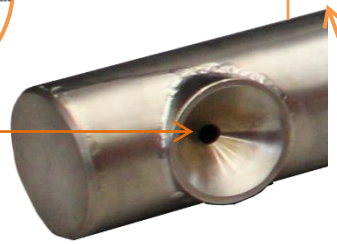
# “K” SERIES

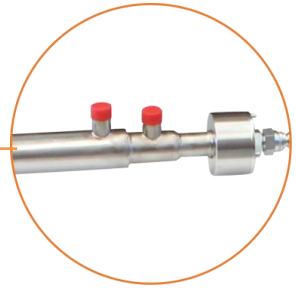
## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

camtecK

- Full HD 1920x1080px resolution
  **90° inclined view**

- 6mm air pressurized aperture



- Water cooling circuit made with three jackets
- Housing made of SS316L

sondatecK

- Suitable for temperature up to +1800°C

- Easy fit all in one camera device

# “V” SERIES

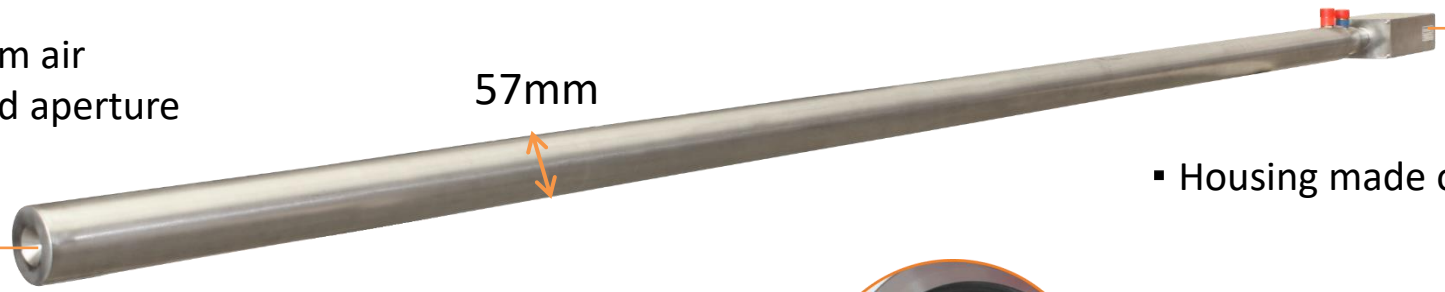
## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

camtecV

- Full HD 1920x1080px resolution
  **axial view**

- Camera module placed in the back flange, Many lengths available

- 6mm air pressurized aperture




- Housing made of SS316L

- Easy fit all in one camera device

sondatecV

- Suitable for temperature up to +1800°C

# CAMTEC: “K” and “V” SERIES CONFIGURATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

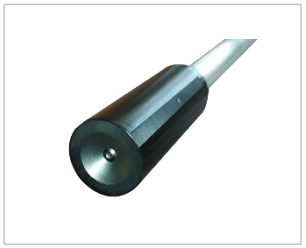
camtecK

INCLINED 90° VISION

[HFOV: 91°, VFOV: 45°]

- Full HD resolution IP camera
- Length = from 700 to 3000mm
- Temperature Sensor (PT100)
- Requires main control unit supplied in separate JBX or Cabinet (CABTEC)

camtecV



AXIAL VISION

[HFOV: 93°, VFOV: 48° @2688x1520px]

- 4MP IP camera up to 2688x1520 resolution
- Length = from 700mm
- Temperature Sensor (PT100)
- Camera unit placed on the back part of the Sondatec V housing

# SONDATEC: “K” and “V” SERIES CONFIGURATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

sondatec K

INCLINED 90°
VISION

sondatec V

AXIAL
VISION

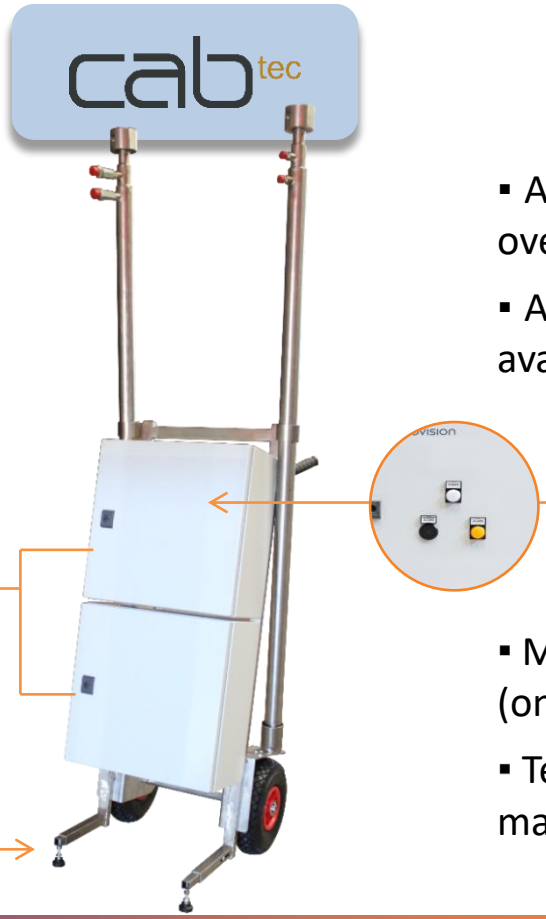
- Diameter = 57mm
- Air & Water cooling system
- Light weight

“K” and “V” series has been developed for all applications that require a small entrance diameter. Thanks to this feature they are also ideal for mobile inspections.

# CABTEC: “K” and “V” SERIES CONFIGURATION

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

- Hydraulic, pneumatic and electrical controls in two segregated units




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

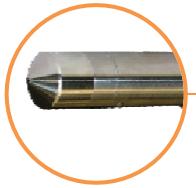
- Special trolley for easy movements and mobile inspections

- Main unit of control camera (only for Camtec K)
- Temperature camera sensor management

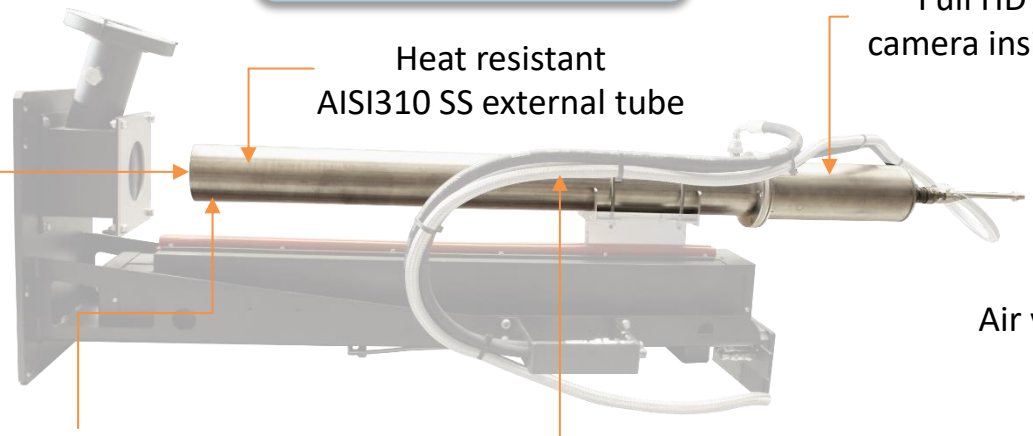
# ONLY AIR COOLED SOLUTION: “P” SERIES

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1300°C

sondatec P



Insulated optical periscope inside



Heat resistant AISI310 SS external tube

Full HD camera inside

Air vortex coler

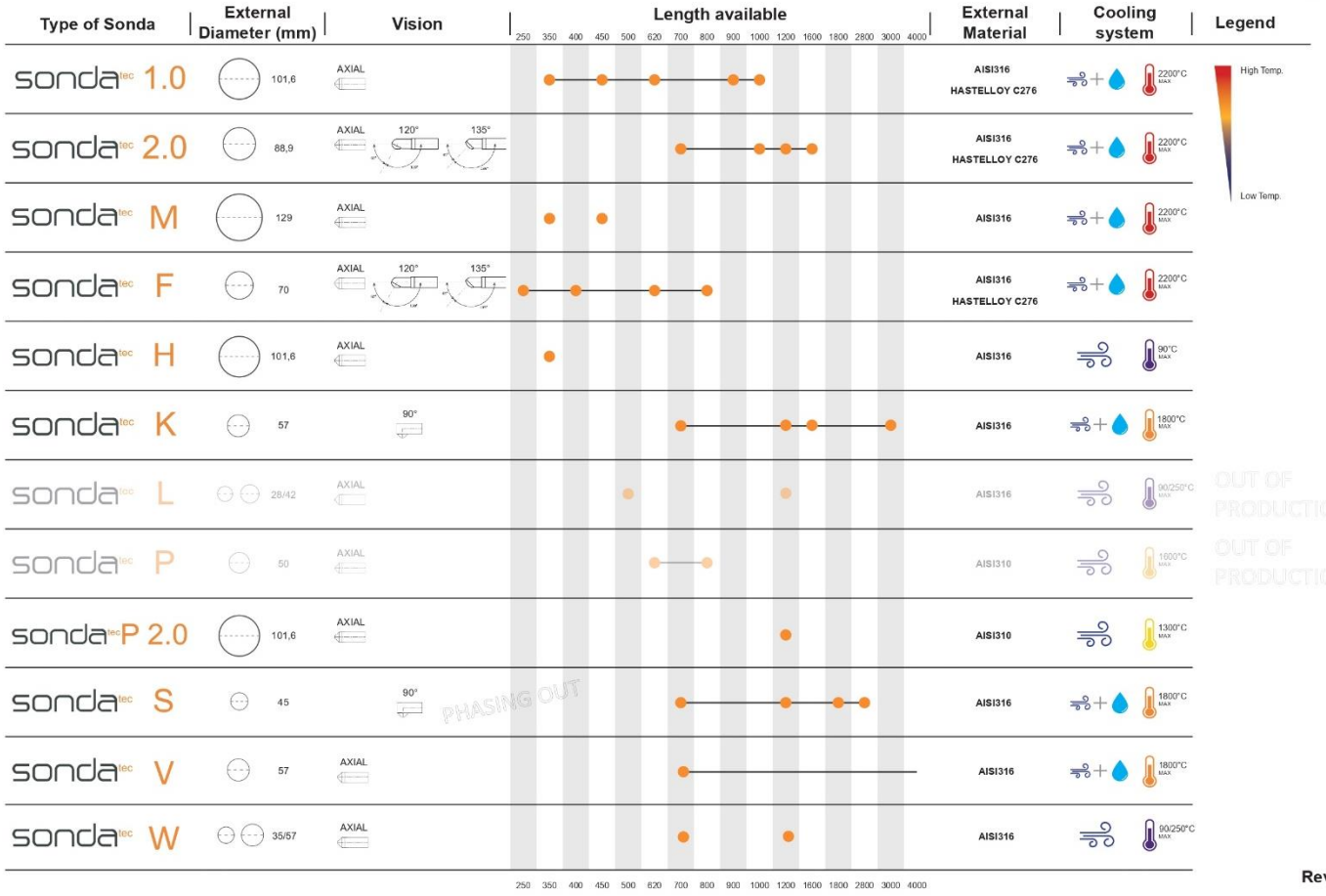
Special Ceramic Head

Glass braid covering inside

- Diameter = 101,6 mm
- Full air cooled solution (Double air cooling system)
- Special ceramic frontal head
- Available also for installation on INTEC retractable device

# SONDATEC RANGE

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS FROM 90°C UP TO 2200°C




Rev.01

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# ACQUATEC: MAIN FEATURES

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

acquatec

- Air or Air & Water cooled pressurized housing
- Useful for Analogue or IP camera, Infrared camera and various instrumentation
- Able to work with temperatures up to 400°C

# ACQUATEC: BASIC SYSTEM COMPONENTS CONFIGURATION

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C


acquatec


- OPERATING TEMPERATURE UP TO:

90° — 400°

- COOLING:

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

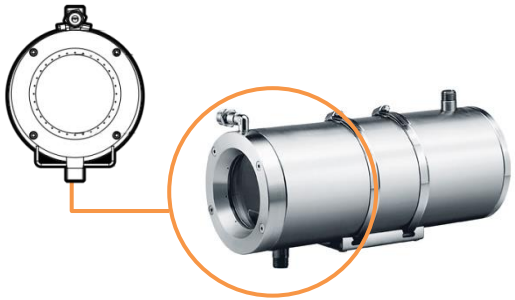
MOVABLE GLASS ⟷ AIR BARRIER

IP43 ⟷ IP66

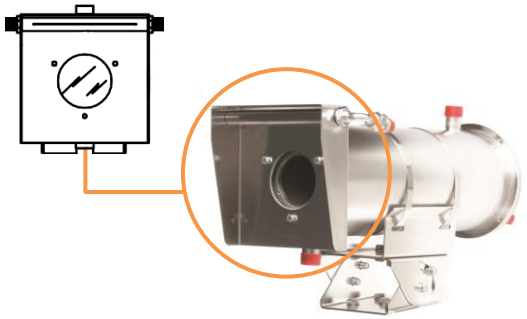
# ACQUATEC: BENCHMARK

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

| 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 |



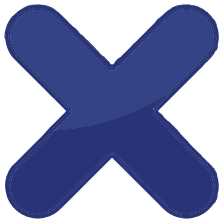
Example of similar product



# ACQUATEC: ADVANTAGES

## HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

| | |
|---|---|
| Compact overall dimensions | Smart for integration with PTZ |
| Smaller window | Less internal overheating due to irradiation |
| Knife air barrier | More efficently cleaning |
| Pressurized air cooling system | More reliability |



# SPECIAL VERSIONS

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

In order to meet the different needs of various industrial processes, customized solutions have been designed:

- Compact version available;
- Different type of frontal windows with different diameters (Transparent glass, Zinc-Selenium, Germanium);
- Special versions with pneumatic damper for window protection;

# ONLY AIR COOLED SOLUTION: “W” SERIES – Light solution

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 250°C / 90°C

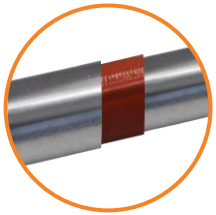
camtecW + sondatecW

External Ø 35mm

90°C

External Ø 57mm

250°C



Additional external shield

Built-in isolator tube to allow temperature range up to 250°C

- «Light» version: cheaper solution suitable for mobile inspection
- Low diameter
- Two versions available: up to +90°C or +250°C
- Axial vision

# AIRTEC: MAIN FEATURES

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C


- Air cooled pressurized housing
- Useful for Analogue camera, IP camera, Infrared camera
- Able to work with temperature up to 90°C

# AIRTEC: BASIC SYSTEM COMPONENTS CONFIGURATION

▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C


airtec

• 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

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# AIRTEC: BASIC SYSTEM COMPONENTS CONFIGURATION

## ▶ HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C

air tec

0 8 X A B C

| A – Length | B – Power Supply | C – 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 |