

# Slag detection system



For almost all casting processes the amount of slag needs to be monitored and controlled. There are two common methods to observe slag concentration: Electromagnetic induction and IR-radiation properties.

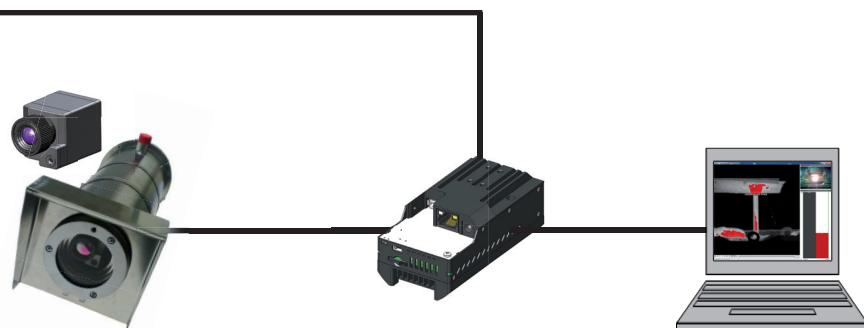
The fast optris PI Cameras are able to observe the casting process and calculate the slag amount in real time. This improves the yield.

## FEATURES

- The imager can be removed from the cooling jacket without the need of tools
- Once mounted to the steel plant, the adjustable bracket allows both pan and tilt movement to precisely align the imaging sensor to the tapping stream
- Integrated watchdog
- High temperature range up to 1500°C
- Up to 382x288 pixel
- Frame rate up to 128 Hz
- Wide power range: Power over Ethernet (PoE) or 8-48 V

## HIGHLIGHTS

- Visible and infrared inspection
- Ambient temperature up to 240°C
- Long distance between application and PC as well as stand alone use possible
- Improved yield
- Lower maintenance on BOF/EAF vessel
- Accurate detection independent of operator
- Automatic operation
- Environmental rating IP 65
- Complete system from 5175 €



## Technical data

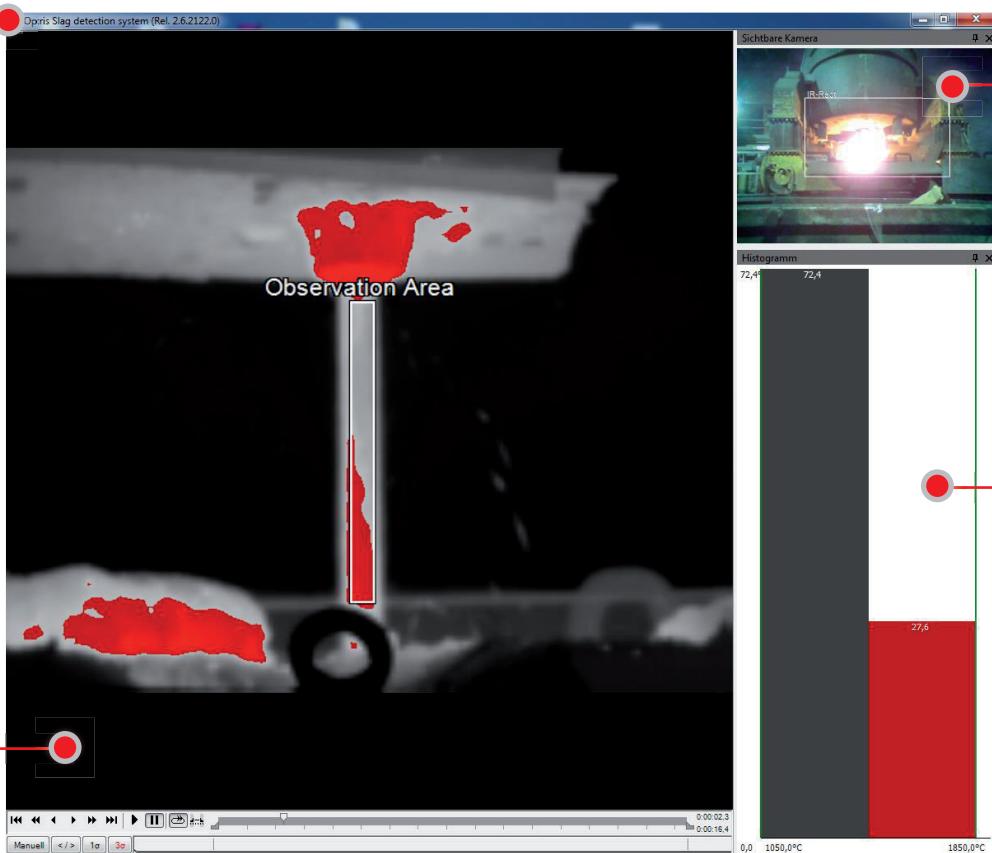
Detector	FPA, uncooled (25µm x 25 µm)
Optical resolution	382 x 288 pixel or 160 x 120 pixel
Frame rate	80 Hz, 120 Hz or 128 Hz
Visible camera (PI 200)	640 x 480 pixel (up to 32 Hz)
Spectral range	7.5 - 13 µm
Temperature range	200°C...1500°C, 150°C...900°C, 0°C...250°C, -20°C...100°C
Optics	6° x 5° FOV / f = 5.7 mm or 13° x 10° FOV / f = 41 mm
Ambient temperature	Up to 240°C
Relative humidity	20 - 80 %, non condensing
Weight	4000 g
Shock / vibration	25G, IEC 68-2-29, / 2G, IEC 68-2-6
Power supply	8-48 V or Power over Ethernet (PoE)

## Features

- Monitoring up to 128Hz
- Snapshot and video recording feature
- Observation in real time
- Available in 10 languages
- 6° or 13° available

## Visible Image

- Shows live image to observe the process



## Thermal Image

- User definable Layouts
- Unlimited numbers of measurement areas
- System status bar
- 11 colour palettes

## Slag Graph

- Shows the steel and slag percentages
- Alarm level
- Alarm status