

Highly Accurate On-Line Infrared Non-Contact Pyrometers for Aluminum and other Non Ferrous Application



170°C to 550°C • 200°C to 650°C • 250°C to 870°C • 300°C to 1150°C

AST A4-S-EX

Materials with low or variable emissivity like Aluminium, Brass, Bronze, Copper and other non gray body materials are quite impossible to measure accurately using single or ratio wavelength Infrared Pyrometers.

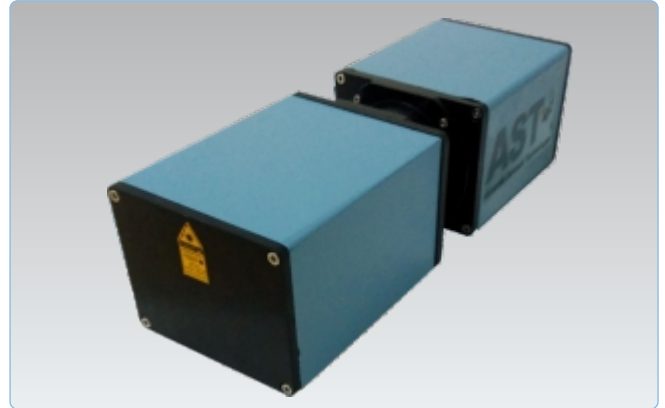
AST A4-S-EX is a Multi-wavelength plug and play pyrometer scanner use application specific data base derived from years of experience in real application.

AST A4-S-EX use special algorithms to accurately calculate both the actual temperature and emissivity of the surface.

AST A4-S-EX can hold multiple data base so that single instrument can be easily switched between multiple application like Molten metal, Extruded profiles, Rolled aluminium surface, Continuous casting, Aluminum billets, Slabs etc.

It has a laser pointer which is aligned in line with the detector so that it ensures both laser and detector looks in to the same spot. This helps precise aiming even in long distances.

AST A4-S-EX offer Bluetooth communication so that it can communicate with Android smart phones or laptop for viewing the measured temperature and for adjusting the parameters / selection of data base and data logging.



Features

- Simple to use - No calibration required
- High accuracy - (1%) in real site conditions
- Capable of measuring targets with variable emissivity
- Measures through smoke, dust, water vapor etc
- Temperature range 300°C to 670°C; 350°C to 850°C; 400°C to 1000°C; 500 to 1270°C
- Rugged design
- Full range of accessories
- Wide range of built-in functions
- A4-SW Application software for PC
- A4-SW A Mobile Application software for Android via Bluetooth
- Selection of scanning modes:
 - Hottest point
 - Smooth point
 - Program point (pendulum mode)
 - Continuous scanning (pendulum mode)
- Adjustable scanning range up to $\pm 10^\circ$
- Adjustable scanning step from 0.1° to 5°
- Adjustable scanning time
- Minimal working distance 1 meter
- Maximal working distance target size dependence

Software

A4-SW

◆ Measurement Readout ◆ Parameterization ◆ Datalogging

A4-SW A Mobile

AST - Parameters

Analog Range		Alarm Settings	
Min.	400	Low	300
Max.	600	Hi	301
Tau (average number)		Brightness Min.	
510 ms (30)		300	
Sigma		Black Body Threshold	
15		1.0	
Mov. Average Intervals			
6			

Buttons: Read, Write, Close

Standard Scope of Supply

- Integrated laser pilot light
- Digital Interface RS-232
- Calibration certificate, PC Software & Operation Manual

Optional

- Mechanical and Electrical Accessories
- Analog Output : 0...20mA or 4...20mA or 0-10V or K type T/C
- Extra Cable Lengths
- RS422, USB, Bluetooth

Applications

- Aluminium Extrusion
- Profiles
- Billets
- Aluminium Rolling
- Aluminium Forging
- Aluminium Continuous Casting
- Molten Aluminium

We measure accurate temperature in extreme conditions

Technical Specifications

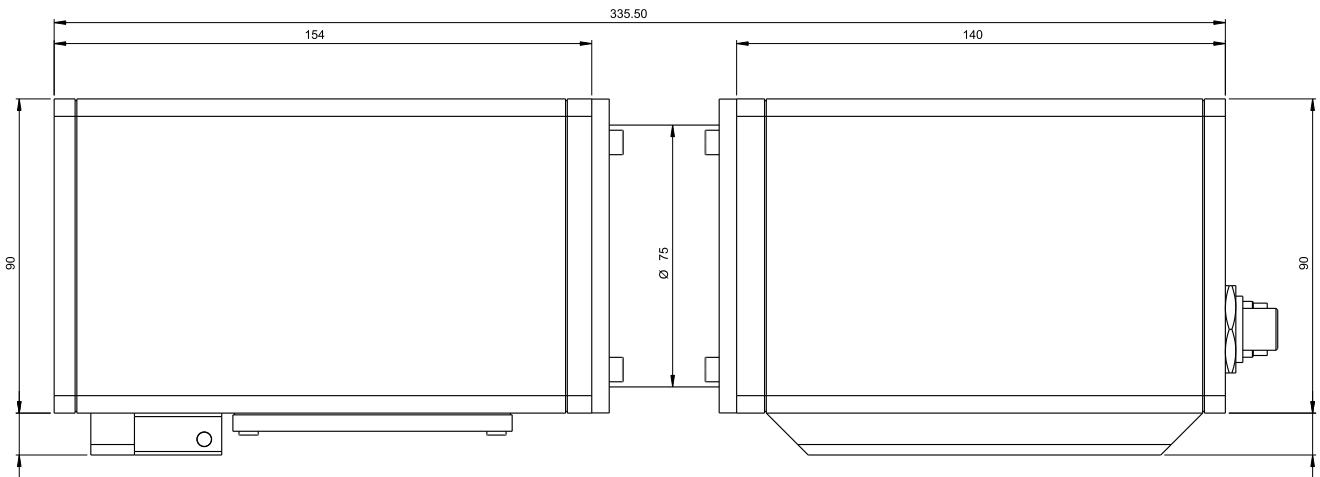
Model	Specification
Emissivity	0.1 -1.0
Response Time	0.1 - 1.0 sec
Default Value	0.5 sec
Accuracy and Repeatability	±1%
Sighting	Integrated Laser Pilot Light
Power Supply	24VDC
Analog Output	4-20 mA, 0-20 mA, 0-10V, K Type T/C
Digital Output	RS-232, RS-422, USB, Bluetooth
Digital Display	P110
Pyrometer Scanner Overall Dimensions	355 x 110 x 105 mm
Pyrometer Scanner Weight	3.4Kg
Operating temperature range	0°C +50°C
Storage temperature range	-20°C +70°C
Humidity	Unlimited for the sensor-head

Spot Sizes

Measuring Distances(mm)	AST A4-S-EX			
	Spot Sizes(mm) 170 - 550°C	Spot Sizes(mm) 200 - 650°C	Spot Sizes(mm) 250 - 870°C	Spot Sizes(mm) 300 - 1150°C
900	10	10	7	2.5
1400	15	15	7.5	3.75
1900	20	20	10	5
2900	30	30	15	7.5
4900	50	50	25	12.5

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Pyrometer Drawing

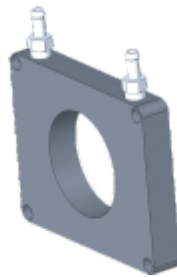


Accessories

Adjustable Mounting
(Reference no:200-01)



Water Cooling Plate
(Reference no: 200-06)



Display & Parameterizer P-110



AS3000 Application Selector
(Reference no: 300-07)



Power Supply Unit
(Reference no: 300-09)



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Manufactured by:



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