

Accurate Sensors Technology

Highly Accurate IR Non-Contact Pyrometers with built-in scanning system for Aluminum

90°C to 850°C (194°F to 1562°F) • 200°C to 1640°C (392°F to 2984°F) • 250°C to 1850°C (482°F to 3362°F) • 360°C to 2500°C (680°F to 4532°F) **AST A5-S-EX**

AST A5-S-EX is a specially designed IR Pyrometers for noncontact temperature measurement of aluminum.

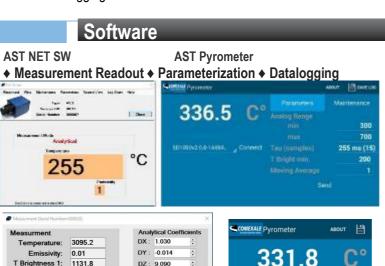
AST A5-S-EX is a Multi-wavelength plug-and-play pyrometer that uses an application-specific database derived from years of experience in a real application.

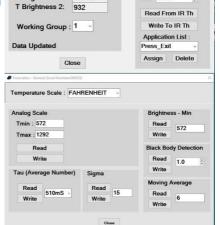
AST A5-S-EX uses special algorithms to accurately calculate both the actual temperature and emissivity of the surface.

AST A5-S-EX can hold multiple databases so that a single instrument can be easily switched between multiple applications like Molten metal, Extruded profiles, Rolled aluminum surface, Continuous casting, Aluminum billets, Slabs, etc.

AST A5-S-EX has a laser pointer aligned in line with the detector to ensure both laser and detector look in the same spot. This helps precise aiming even in long distances.

AST A5-S-EX offers Bluetooth communication to communicate with Android smartphones or laptops to view the measured temperature and adjust the parameters/selection of database and data logging









- High accuracy (1%) in real site conditions
- Capable of measuring targets with variable emissivity
- Measuring through smoke, dust, water vapor, etc.
- Temperature range see table at the beginning of the next
- Temperature range for measurement in front of a blackbody; when measuring a shiny body, the minimum temperature will be higher.
- Rugged design
- AST NET SW software for PC
- AST Pyrometer Android Application via Bluetooth
- Selection of scanning modes:
- Hottest point
- One-Shot point
- · Program point
- Continuous scanning (pendulum mode)
- Adjustable scanning range up to ± 20°
- Adjustable scanning step from 0.1° to 5°
- · Adjustable scanning time
- · Minimal working distance 1 meter

Standard Scope of Supply

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

Optional

- Mechanical and Electrical Accessories
- Digital Output: RS485, OpenBus, USB, Bluetooth, Alarm

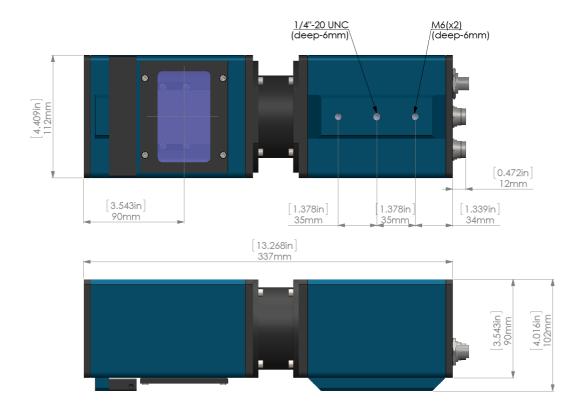
Applications

- Aluminum Extrusion Profiles & Billets
- Aluminum Casting
- Aluminum Rolling
- Aluminum Forging
- Aluminum Continuous Casting

Technical Specifications

Specification	Model A5-S-EX		
Temperature Range (Analog sub-range adjustable)	90 - 850°C	194 - 1562°F	
	200 - 1640°C	392 - 2984°F	
	250 - 1850°C	482 - 3362°F	
	360 - 2500°C	680 - 4532°F	
Spectral Range	2.12.4 µm		
Photodetector Type	InGaAs Extended		
Humidity	IP65		
Response Time	Adjustable from 0.1 sec to 17 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, Alarm		
Digital Output	RS-232, RS485, USB, Bluetooth		
Digital Display	P110		
Adjustable Scanning Range	Up to ±20°		
Adjustable Scanning Step	From 0.1 to 5°		
Number of Automatically Scanning Modes	4		
Pyrometer Scanner Overall Dimensions	355 x 110 x 105 mm		
Pyrometer Scanner Weight	3.4Kg		
Operating temperature range	0°C to +50°C / 32°F to +122°F		
Storage temperature range	-20°C to +70°C / -4°F to +158°F		

	A5-S-EX Spot Sizes [mm] / [in]			
Measuring Distances [mm] / [in]	FOV 1:100	FOV 1:200		
	90 - 850°C	200 - 1640°C	250 - 1850°C	360 - 2500°C
	194- 1562°F	392 - 2984°F	482 - 3362°F	680 - 4532°F
500 / 20	5 / 0.2	2.5 / 0.1		
1000 / 40	10 / 0.4	5 / 0.2		
1500 / 60	15 / 0.6	7 / 0.3		
2000 / 80	20 / 0.8	10 / 0.4		
2500 / 100	25 / 1.0	12.5 / 0.5		
5000 / 200	50 / 2.0	25 / 1.0		



Accessories

Adjustable Mounting (Reference no:200-08)

Top Water-Cooling Plate (Reference no: 200-10)

Display (Reference no: P-110)



AS3000 Application Selector (Reference no: 300-07)



Frontal Water-Cooling Plate (Reference no: 200-06)



Power Supply Unit (Reference no: 300-09)









Misgav Industrial Park, Misgav 2017400 Israel

Ph.: +972-4-9990025,

E-mail: sales@accuratesensors.com www.accuratesensors.com

