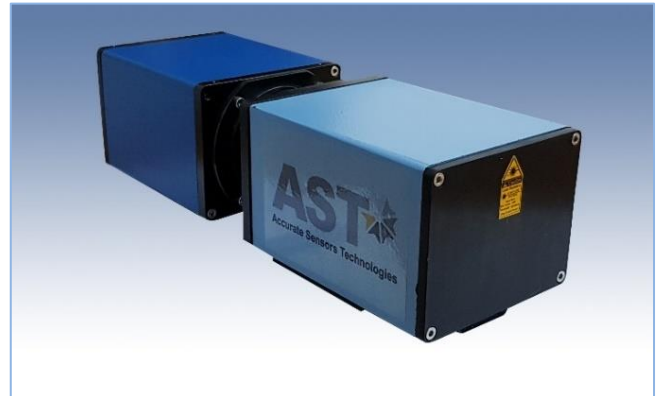




Highly Accurate IR Non-Contact Pyrometers with built-in scanning system for Aluminum  
 350 to 1300°C (662 to 2372°F) • 380 to 1500°C (716 to 2732°F)  
 440 to 2000°C (824 to 3632°F)

## AST A5-S-IN

**AST A5-S-IN** is a specially designed IR Pyrometers for non-contact temperature measurement of aluminum.  
**AST A5-S-IN** 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-IN** uses special algorithms to accurately calculate both the actual temperature and emissivity of the surface.  
**AST A5-S-IN** 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-IN** 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-IN** 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



### Features

- 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 page.
- 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  $\pm 20^\circ$
  - Adjustable scanning step from  $0.1^\circ$  to  $5^\circ$
  - Adjustable scanning time
- Minimal working distance 1 meter

### Standard Scope of Supply

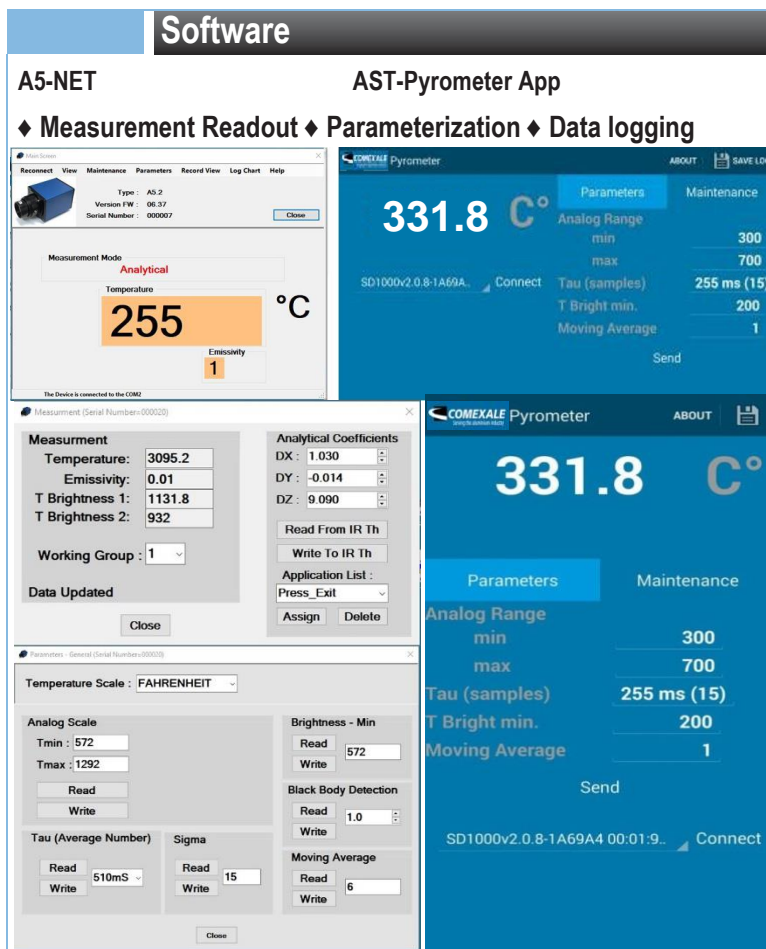
- Integrated laser pilot light
- Digital Interface RS-232 & Analog output
- Calibration certificate, PC Software & Operation Manual

### 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



We measure accurate temperature in extreme conditions

## Technical Specifications

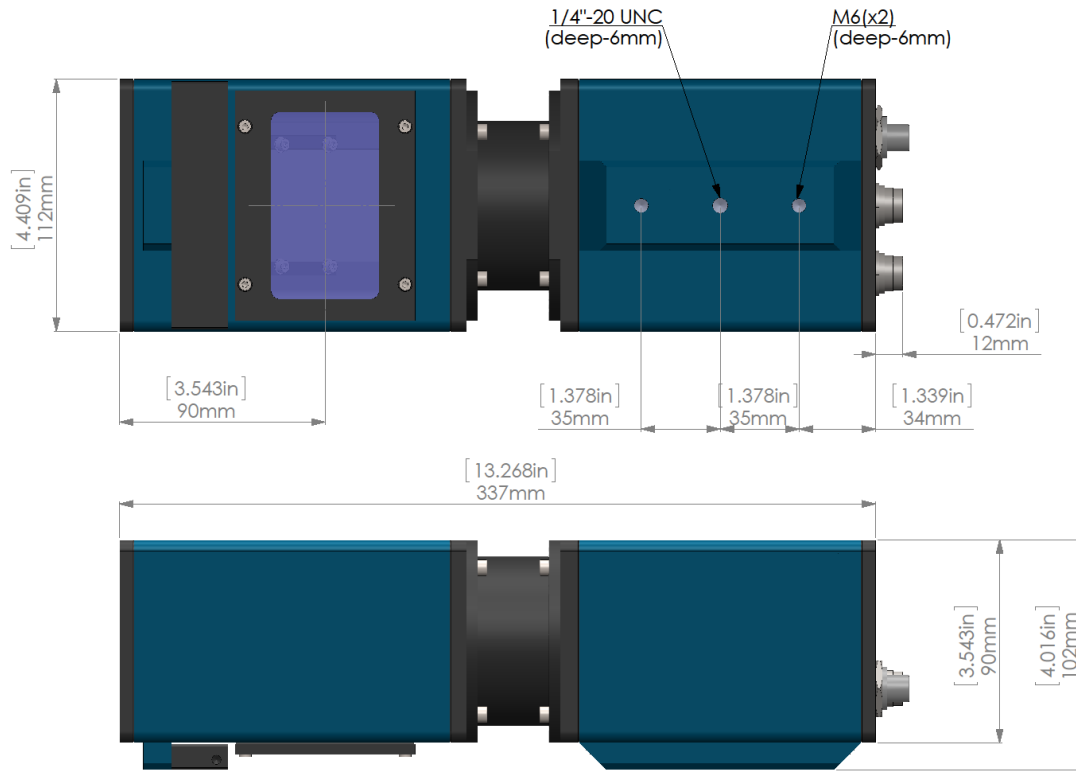
Specification	Model A5-S-IN	
Temperature Range (Analog sub-range adjustable)	350 - 1300°C	662 - 2372°F
	380 - 1500°C	716 - 2732°F
	440 - 2000°C	824 - 3632°F
Spectral Range	1.3...1.6 μm	
Photodetector Type	InGaAs	
Humidity	IP65	
Response Time	Adjustable from 0.1 sec to 17 sec	
Default Value	0.5 sec	
Accuracy 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 / 14 x 4.33 x 4.13 in	
Pyrometer Scanner Weight	3.4Kg / 7.5lbs	
Operating temperature range	0 s +50°C / 32 to +122°F	
Storage temperature range	-20 to +70°C / -4 to +158°F	

## Spot Sizes

Measuring Distances [mm] / [in]	A5-S-IN Spot Sizes [mm] / [in]		
	FOV 1:100	FOV 1:200	
	350 - 1300°C 662 - 2372°F	380 - 1500°C 716 - 2732°F	440 - 2000°C 824 - 3632°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	

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# Pyrometer Drawing



## 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)



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