

SAT-S280

Upright style infrared camera



UPRIGHT

DUAL DISPLAY

4 IN 1

With over 10-year engineering experiences, SAT-IR introduces the innovative upright style infrared cameras (world patent pending). Design with the professional in mind, the S280 IR camera features powerful analysis tools, dual display, laser pointer, visual camera, and it is an ideal tool for predictive maintenance and various measurement and control applications.

Upright style
S series

Specifications (Preliminary Version)

Thermal	Field of view / min. focus distance	24° X18° /0.26m
	Spatial resolution (IFOV)	1.3mrad
	Thermal sensitivity	80mK@30°C
	Frame rate	50/60Hz non-interlaced
	Focus	Manual
	Digital zoom	1x-8x (0.1 increment)
	Detector type	Focal Plane Array (FPA), uncooled microbolometer 320x240 pixels
	Spectral range	8 to 14 μ m
	Visual	Build-in digital camera
PIP		6 modes
LCD display	Viewfinder	Built-in, 640X480 color LCD (TFT)
	LCD display	320X240 color LCD (TFT)
	PIP	6 modes
Measurement	Measurement range	-20°C to +500°C, (-4°F to +932°F), Up to 1500°C(2732°F) or +2000°C(3632°F), optional
	Accuracy	±2°C, ±2% of reading
Measurement mode	Spot	(up to 10 movable), manual or automatic placement
	Area	5 movable area, reading of max., min. and average temperature within area
	Isotherm	5 modes
	Line profile	Horizontal or vertical profile
	Emissivity correction	Variable from 0.01 to 1.00, automatic correction based on user input
Image storage	Measurement correction	Automatic, based on user input for ambient temperature, distance, relative humidity
	Memory	Built-in flash memory,128MB
Formats	Thermal image	SAT format, 14 bit measurement data included
	Visual image	CCD format
	Voice annotation	Input via headset up to 40 sec. of digital voice "clip" stored with thermal image
	Text annotation	Predefined by user and stored with image
Laser pointer	Classification	Class 2, red
Power source	Battery	Li-on, rechargeable, field replaceable
	Battery operating time	2.5 hours continuous operation
	External power operation	AC adapter
	Charging system	External intelligent charger
	Power saving	Automatic shutdown and sleep mode (user-selectable)
Environmental	Operation temperature range	-15°C to +50°C (5°F to +122°F)
	Storage temperature range	-40°C to +70°C (-40°F to +122°F)
	Humidity	Operating and storage 10% to 95%, non-condensing
	Encapsulation	IP 54 IEC 529
	Shock	Operational: 25g IEC 68-2-29
	Vibration	Operational: 2g IEC 68-2-6
Physical characteristic	Size	90mm X 160mm X 184mm
	Weight	1Kg
	Tripod mounting	1/4"-20
Interfaces	USB	Image (thermal and visual), measurement data, voice and text, real-time thermal video with measurement data (Optional) transfer to PC
	Video output	CCIR/PAL or RS170 EIA/NTSC composite video



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