

MANUFACTURERS	Wahl	TIR	TIR1	RAYTEK/FLUKE				INFRACAM	FLIR	E45	880 -1	TESTO
Feature/Model	HSI3000			Ti10	Ti25	Ti20	Ti30		INFRACAM SD		880 -2	
												
Measurement on Camera	The entire 19,200 array displays live temperature	1 center pixel only	1 center pixel only	1 center pixel only	1 center pixel only	1 center point only	1 center point only	1 center point only	1 center point only	1 center point only	Yes, all pixels	Yes, all pixels
IFOV	2.2 mrad, 2.2mm spot	2.5mrad	2.5mrad	2.5mrad	2.5mrad	2.7mrad, 2.7mm spot	1.8mrad, 1.8mm spot	3.6mrad, 3.6mm spot	3.6mrad, 3.6mm spot	2.1mrad, 2.1mm spot	3.5mrad	3.5mrad
Accuracy	The greater of ±2% of reading or ±2° C	±5%, or ±5° C	±2%, or ±2° C	±5%, or ±5° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C
Cursors	Two-measurement cursors, movable anywhere in the image, even after picture is taken	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	One - fixed center	Two-movable
Hot/cold seeking temp	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No
ΔT screen calculation	Yes	No	No	No	No	No	No	No	No	No	No	No
Emissivity Adjustment	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reflected Temperature Compensation	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Array Size	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	128 X 96	160 X 120 pixels uncooled microbolometer	120 X 120 pixels uncooled microbolometer	120 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer
Sensitivity	0.15°C @ 23°C ambient and 25°C Scene Temperature	0.10	0.07	0.20	0.10	0.20	0.25	0.20	0.20	0.20	0.10	0.10
Frame Rate	8 Hz (Optional- 30 Hz Frame Rate)	9Hz	9Hz	9Hz	9Hz	9Hz	8Hz outside USA	9Hz	9Hz	8Hz outside USA	9Hz	9Hz outside EU
Weight	0.76Kg (1.65lbs) including Battery	1.2Kg	1.2Kg	1.2Kg	1.2Kg	1.2Kg	1Kg	0.55kg	0.55kg	0.70Kg	0.9Kg	0.9Kg
FOV	20° X 15°	23° X 17°	23° X 17°	23° X 17°	23° X 17°	20° X 15°	17° X 12.8°	25° X 25°	25° X 25°	19° X 14°	32° X 24°	32° X 24°
Digital Zoom	2 X	No	No	No	No	No	No	No	No	No	No	No
Picture in Picture (PIP)	Target Framing! Evolutionary thermal frame shows targeted area framed inside a thermal image and displays maximum and minimum temperatures within the target area, with 2x digital zoom to provide 1/2 the distance to the target for easier analysis and with laser to pinpoint any spot on the target. Take a snapshot to diagnose real time every pixel inside the picture frame.	Yes- only works well in daylight and requires manual focusing	Yes- only works well in daylight and requires manual focusing	Yes- only works well in daylight and requires manual focusing	Yes- only works well in daylight and requires manual focusing	No	No	No	No	No	No	No
Image Browser	Easy to find an individual image by number	Saved Image Browser (scroll through each image)	Saved Image Browser (scroll through each image)	Saved Image Browser (scroll through each image)	Saved Image Browser (scroll through each image)	No	No	No	No	No	No	No
Telephoto option	Yes, 9.1° to 6.8° (HSI3003)	No	No	No	No	No	No	No	No	No	No	No
Hi Temp option	Yes, 392° to 932°F/200° to 500°C (HSI3001) & 392° to 1652°F/200° to 900°C (HSI3002)	No	No	No	No	No	No	No	No	No	No	No
Image Storage	Yes, 2000; 256 MB SD card	yes, 1200 .IS2; 2 GB SD card	yes, 1200 .IS2; 2 GB SD card	yes, 1200 .IS2; 2 GB SD card	yes, 1200 .IS2; 2 GB SD card	50; flash memory	100; flash memory	50; flash memory	Yes, 1000; 128 MB SD card	100; flash memory	Yes, 1000; SD card	Yes, 1000; SD card
Laser Sighting	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Range	263° to 523°K 14° to 482°F (-10 to +250° C)	-4 to +212° F (-20 to +100° C)	-4 to +212° F (-20 to +100° C)	-4 to +482° F (-20 to +250° C)	-4 to +662° F (-20 to +350° C)	14° to 662°F (-10 to +350° C)	32° to 662°F (-10 to +350° C)	14° to 662°F (-10 to +350° C)	14° to 662°F (-10 to +350° C)	-20 to +250° C	-10 to +100° C & 0 to 350° C (switchable)	-10 to +100° C & 0 to 350° C (switchable)
Interfaces	USB Type B / SD Card Reader	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB	SD Card Reader / USB
Display Clarity	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Poor	Good	Good	Good	Excellent	Excellent
Image size	3.5" (89mm)	3.6"	3.6"	3.6"	3.6"	2.5" (64mm)	2.5" (64mm)	2.5" (64mm)	2.5" (64mm)	2.5" (64mm)	3.5" (89mm)	3.5" (89mm)
Light Shade	Optional, Standard on HSI3003	No	No	No	No	No	No	No	No	No	Rechargeable Li-Ion	Rechargeable Li-Ion
Protective Rubber Boot Included	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
Battery Type	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Nickel Metal Hydride	Nickel Metal Hydride	Rechargeable Li-Ion or 6 AA	Rechargeable Li-Ion or 6 AA	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	No	No
Replaceable Battery in the Field	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	5 Hours	5 Hours
Programable picture interval taking sequencing software	Yes	No	No	No	No	No	No	No	No	No	Yes	Yes
Battery Time	6 hours.	3 hours (at 50% display brightness)	3 hours (at 50% display brightness)	3 hours (at 50% display brightness)	3 hours (at 50% display brightness)	3 Hours	3 Hours	7 Hours	7 Hours	2 Hours	Yes	Yes
Analysis Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes, basic	Yes, basic	Yes	Yes	Yes
Advanced Report Generator Software	Wahl Easy Report Software and Report Writer Software (Included)	Yes	Yes	Yes	Yes	Yes	Yes	Report Writer Software (included)	Report Writer Software (included)	Yes		
Prices	\$5,995.00	\$4,495.00	\$6,995.00	\$4,495.00	\$7,495.00	\$6,495.00	\$9,995.00	\$5,750.00	\$6,750.00	\$9,950.00		

Desirable Spec.
 Unimaging Spec.

880-3	S-80	SAT		WUHAN GUIDE	DALI	DALI		T2-P	T2-S	Wahl
		S-160	S-180	MOBIR	TE	T2-E				HS11200
										
Yes, all pixels 3.5mrad	Yes, all pixels 2.2 mrad, 2.2mm spot	Yes, all pixels 2.2 mrad, 2.2mm spot	Yes, all pixels 2.2 mrad, 2.2mm spot	Yes, all pixels 2.7mrad, 2.7mm spot	Yes, all pixels 1.3mrad	Yes, all pixels 1.9mrad	Yes, all pixels 1.9mrad	Yes, all pixels 1.9mrad	Yes, all pixels 1.9mrad	256 can be measured 2.2 mrad
±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	The greater of ±2% of reading or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	±2%, or ±2° C	The greater of ±2° C or ±2%
Two-movable	One-movable	4 - 1 Fixed, 3 Moveable	4 - 1 Fixed, 3 Moveable	One- Center Fixed / 1 Auto Hot Spot	One-Moveable	One-Moveable	Four - Moveable	One-Moveable	One-Moveable	Two-measurement cursors, movable anywhere in the image, even after picture is taken
No	No	Yes	Yes	Yes, Hot Only	No	No	Yes	Yes	Yes	No
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Ambient Compensation Only	Ambient Compensation Only	Ambient Compensation Only	Ambient Compensation Only	Yes	Yes	Yes	Yes	Yes	Yes
160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	160 X 120 pixels uncooled microbolometer	16 X 16
0.10	0.12	0.20	0.12	0.12	0.12	0.10	0.10	0.10	0.10	~0.3°C @ 30°C
9Hz outside EU	9 Hz	30 Hz	30 Hz	8.5 Hz or 50/60 Hz	50 Hz	50 Hz	50/60 Hz	50/60 Hz	50/60 Hz	8 Hz
0.9kg	0.7 Kg	0.7 Kg	0.5 Kg	0.27 Kg	0.6 kg	0.6 kg	0.6 kg	0.6 kg	0.68kg	0.70 Kg (1.54lbs)
										20° X 20°
32° X 24°	No	20° X 16°	20° X 15°	20° X 15°	12° X 9°	18° X 13°	18° X 13°	18° X 13°	21.1° X 15.8°	No
No	No	No	No	2 X	No	No	No	No	No	No
										Full Thermal Picture for easy location of problem areas.
										Easy to find an individual image by number
Yes, 12° X 9° FOV Telephoto Lens	Yes	Yes	Yes	No	No	No	No	No	No	No
No	No	No	No	No	No	No	4° to 932°F/-20° to 500°C OR 4° to 1832°F/-20° to 1000°C	No	No	No
Yes, 1000: SD card	Yes; 1000 flash	Yes; 1000 flash	Yes; 1000 SD	Yes; 100 flash	Yes; 100 flash	Yes; 100 flash	Yes; 1000 flash	Yes; 1000 flash	Yes; 1000 flash	Yes, 2000; 256 MB SD card
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
-10 to +100° C & 0 to 350° C (switchable)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	4° to 482°F (-20 to +250° C)	-20 to +250° c	14 to 572°F (-10 to +300° C)
Excellent 3.5" (89mm)	Good 2.5" (64mm)	Good 2.5" (64mm)	Good 2.5" (64mm)	Very Good 2.2" (55mm)	Good 2.5" (64mm)	Good 2.5" (64mm)	Excellent 2.5" (64mm)	Good 2.5" (64mm)	Good 2.5" (64mm)	USB Type B / SD Card Reader
No	No	No	No	No	No	No	No	No	No	Excellent 3.5" (89mm)
Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable Li-Ion	Optional
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	No	No	No	No	No	No	Rechargeable Li-Ion
5 Hours	2 Hours	2 Hours	3 Hours	2 hours	3 hours	3 hours	3 hours	3 hours	2 Hours	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Yes	Optional	Optional	Optional	Yes	Optional	Optional	Optional	Optional	Optional	6 hours.

Report Writer Software (optional) (\$100.00)
\$ 2,495.00