

MEET TODAY'S HOTTEST THERMAL IMAGERS

U5850 series True/R thermal imagers



Now I can detect abnormalities sooner with higher resolution thermal images within the camera.

NEW!

U5856A and U5857A True/R thermal imager



- **2 new models**
- **Higher temperature**
- **Enhanced usability**
- **Enhanced software with new capabilities**

NEW! - Banner specs

U5856A and U5857A True/R thermal imager

NEW!

NEW!

Banner Specifications	U5855A (350 °C)	U5856A (650 °C)	U5857A (1200 °C)
Detector resolution	160 x 120 pixels	160 x 120 pixels	160 x 120 pixels
Fine resolution (in-camera)	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels
Sensitivity	0.07 °C at 30 °C	0.07 °C at 30 °C	0.07 °C at 30 °C
Accuracy	± 2°C or ± 2%	± 2°C or ± 2%	± 2°C or ± 2%
Temperature range	-20 °C to 350 °C	-20 °C to 650 °C	-20 °C to 1200 °C
Spatial resolution (with fine resolution)	2.1 mrad	2.1 mrad	2.1 mrad

Note: For more detailed specification, refer to datasheet

So what's hot?

Enhancements included in new True/*R* series thermal imager

Improving user experience with the new True/*R* thermal imager

- Better usability and experience with shorter start-up and warm-up time.
- Improved color scheme to enhance appearance hot/cold spots – through firmware algorithm change.
- Less auto-calibration when thermal imager in use – auto-calibration when there is 0.5°C temperature change rather than 0.2°C.

How do we differentiate between the True/*R* series?

- They look the same, hardware wise.
- Other than temperature range difference, U5855A have less color palettes compared to U5856A and U5857A.

So what's hot?

Enhancements included in new True/IR Analysis and Reporting Tool

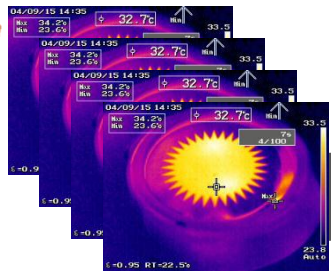


Image Logging – **batch processing** for a set of IR images

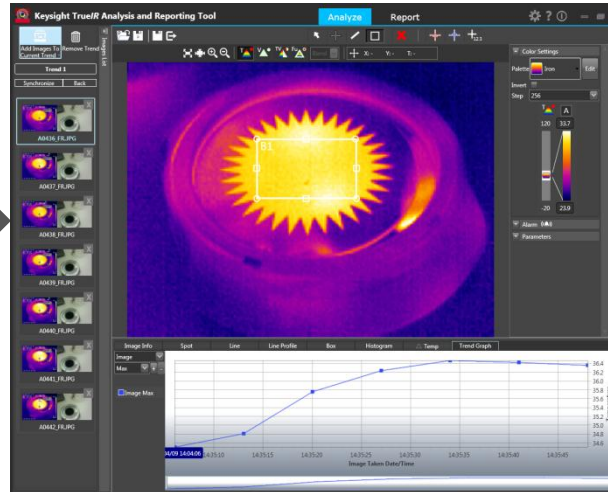
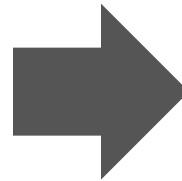
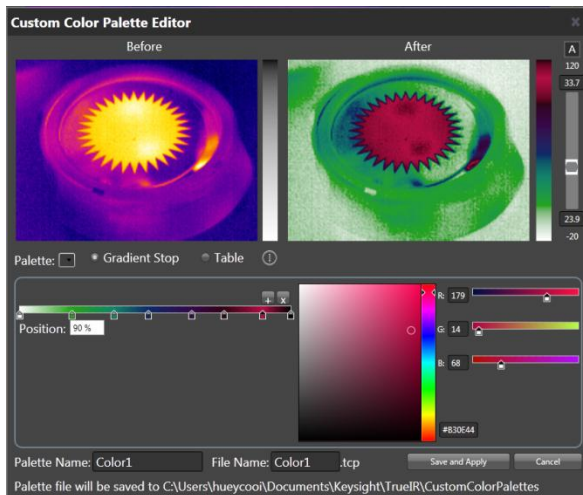


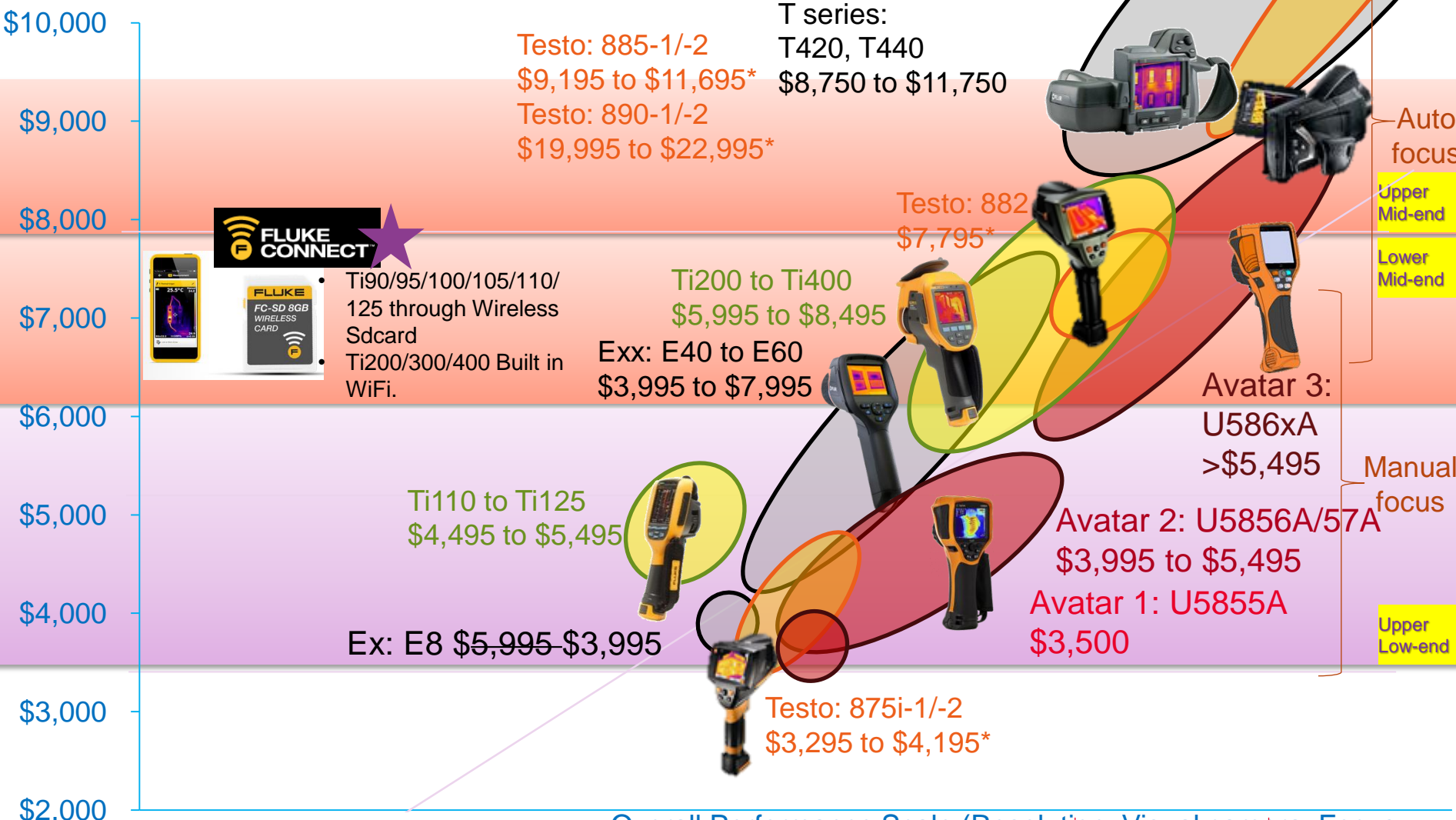
Image Logging help to capture temperature changes over the time. **Trending analysis** feature help to visualize and analyze those changes easily.



Color palette is engineering and art. To certain people, it is personal preference. However, for some, color palette ease focusing and reveal more details from the scene.

Easily create your **custom color palette** and use it on both the camera and software.

Competitive Products



*For Testo, add \$395 for Super resolution

Competitive comparison

		Fixed focus				Up to 650°C			Up to 1200°C		
Items		FLIR E6	FLIR E8	FLIR E40	U5856A	Fluke Ti 200	FLIR E50	Testo 882	U5857A	Flir T440	Fluke Ti400
Imaging and optics systems	L. Price	\$2,495	\$3,995	\$3,995	\$3,995	\$6,299	\$5,995	\$7,780	\$5,495	\$11,750	\$8,495
	Detector Res. / iFOV (mrad)	160x120 (19,200px) / 5.2	320 x 240 (76,800 px) / 2.6	160x120 (19,200px) / 2.72	160x120 (19,200px) / 3.1	200 x 150 (30,000 px) / 2.09	240 x 180 (43,200) / 1.82	320 x 240 (76,700 px)	160x120 (19,200px) / 3.1	320x240 (76,800px) / 1.31	320x240 (76,800px) / 1.31
	Fine Res. (IR) / iFOV (mrad)	NA (MSX technology)	NA (MSX technology)	NA (MSX resolution)	320x240 (76,800px) / 2.1	NA	NA (MSX resolution)	Opt SR 640 x 480	320x240 (76,800px) / 2.1	NA	NA
	Range /Sensitivity (NETD) @ temp	-20 to 250 /0.06 @30	-20 to 250 /0.06 @30	-20 to 650/ 0.07 @30; bx: -20 to 120 / 0.045 @30*1	-20 to 650 / 0.07 @30	-20 to 650 / 0.075 @30	-20 to 650 / 0.05 @30	350 / 0.05 @30	-20 to 1,200 / 0.07 @30; AUTO Ranging	-20 to 1,200 / 0.045 @30	-20 to 1,200/ 0.075 @30; bx: -20 to 120 / 0.045 @30*1
	Focus/Align	Focus Free	Focus Free	Manual/Align	Manual/Align	Auto/manual	Manual	Manual / Motor	Manual/Align	Auto / Manual focus	Auto/Manual Focus
	Min Focus Distance	50cm	50 cm	20cm	10cm*3	15 cm		18 cm	10cm*3		15cm
	Visible Camera	VGA	320 x 240 LCD	3.1MP	3.1MP	5 MP	3.1 MP		3.1MP	3.1MP	5MP
	FOV (degree) / Lens System	45x34 / Fixed	45 x 34 / Fixed	25x19 / Std 25°; Opt: 15° Tele & 45° Wide	28x21 / Fixed	24 x 17	25 x 19	32 x 23	28x21 / Fixed		24x17 / Std; Opt: 12° Tele & 46° Wide
	Image Modes	IR, MSX, PIP	IR, MSX, PIP	IR, Visible, PIP, Fusion, MSX	IR, Visible, PIP, Fusion/Blend	IR, Visible, PIP, Autoblend	IR, Visible, PIP, Fusion, MSX	IR, Visible, Visual & IR image blending (Tw inPtx)	IR, Visible, PIP, Fusion/Blend	IR, Visible, PIP, Fusion	IR, Visible, PIP, Fusion
	Touch Screen			Yes	No	Yes	Yes	No	No	Yes	Yes
Measurements and tools	Torch/Laser	NA	NA	Torch/Laser	Torch/Laser	Torch/Laser (range finder)	Torch/Laser		Torch/Laser	Laser	Torch/Laser
	Digital Zoom	NA	NA	2x	4x	NA	4x		4x	8x	4x??
	Color Templates / Scale	3 std / Auto Scale (Lock)	3 std	6 std	9 std + 1 custom	8 std + 8 ultra contrast	6 std	9 std	9 std + 1 custom		8 std, 8 Ultra contrast
	Isotherm/Color Alarm	Above/Below		Isotherm	Color Alarm	Isotherm	isotherm	Isotherm	Color Alarm	Isotherm	Color Alarm
	Measurements	Center, Center Area with Min/Max	Spot, Box (min/max)	3 Spot, 3 Box, Delta,	Center, 3 Spots, 3 Boxes (with statistic), Delta, Max/Min Markers	Center, min, max, box (statistics)	3 Spot, 3 Box, Delta, Auto hot/cold	Min and Max of area	Center, 3 Spots, 3 Boxes, Delta, Max/Min Markers	5 spots, 5 areas, Delta T	3 Spot, 3 Box, Delta,
	Annotations/ Tagging	NA	NA	Text, Voice	Note Tag, + 3 Photos Tags	Voice (60s/image), photonote,	Text, Voice	Voice annotation	Note Tag, + 3 Photos Tags	Voice, text, sketch annotation	Photo Note, Text, Voice
General Specs	Records / Memory / Frequency	Image / Internal ONLY / 9Hz		Image, MPEG4 / SD / 60Hz / Live streaming with radiometric video and trending (Flir Tool+)	Image, Image Logging and trending using TART software/ SD / 9Hz	Video (radiometric/non-radiometric), 4G internal storage	Image, MPEG4 / SD / 60Hz / Live streaming with radiometric video and trending (Flir Tool+)	Image / SD / 33 Hz	Image, Image Logging and trending using TART software/ SD / 9Hz	Periodic image, / Live streaming with radiometric video and trending (Flir Tool+)	Image, MPEG4 / SD / 60Hz
	IO/Wireless	USB(HDD)	USB	USB, Video Out, WiFi/BT , Touch screen	USB(HDD), Video Out (RCA)	Wifi - PC, iphone, ipad, LAN,USB, HDMI	USB, Video Out, WiFi/BT , Touch screen		USB(HDD), Video Out (RCA)	USB / Wifi - works with iOS and Android	USB, HDMI Video Out, WiFi/BT Fluke Connect, Touch screen
	Software	Included		Included (+Apps)	FREE download	Included	Included	Included	FREE download	Included	Included (+Apps)
	Industrial Design	Rugged, Compact, Ergonomic		Ergonomic	Rugged, Compact, Ergonomic				Rugged, compact, Ergonomic	U5850 Series T-30	Ergonomic, Rugged

Competitive comparison

For temperature range up to 650 °C with detector resolution of 160 x 120 pixels

- E40 has live video streaming (Tool+ software @ \$295), optional external lens, wifi and touch screen capability. Priced at \$3,995.
- U5856A has fine resolution, image logging and trending, custom color palette, and is able to take images as close as 10cm away. Soon, True/IR series will have optional USB live streaming capability. U5856A is priced at \$3,995, with attractive promotions!

For temperature range up to 1200 °C with detector resolution of 160 x 120 pixels

- U5857A has a unique position of being the cheapest solution out there.
- With fine resolution capabilities, U5857A has the same resolution and is able to compete with FLIR T440 and Fluke Ti400, that costs double!

Product Pricing and Structure

Product/Options*	Description	US\$ DDP
Base Model		
U5855A	TrueIR Thermal Imager, 350 degree Celsius	\$3,507.00
U5856A (NEW)	TrueIR Thermal Imager, 650 degree Celsius	\$3,995.00
U5857A (NEW)	TrueIR Thermal Imager, 1200 degree Celsius	\$5,495.00
Options		
U5855A-100 (NEW)	U5855A TrueIR Thermal Imager with 2-bay charger and additional battery	\$270.00
U5856A-100 (NEW)	U5856A TrueIR Thermal Imager with 2-bay charger and additional battery	\$270.00
U5857A-100 (NEW)	U5857A TrueIR Thermal Imager with 2-bay charger and additional battery	\$270.00
Post Sale Options		
U5751A	Power adapter with power cord	\$48.00
U5752A	Rechargeable Li-Ion battery	\$110.00
U5753A	External battery charger (2-bay)	\$160.00
U5761A	Video RCA to RCA interface cable, 2 m	\$15.00
U5762A	USB Standard-A to Mini Type-B interface cable, 1 m	\$15.00
U5771A	Rugged carrying case, hard	\$160.00
U5772A	Hand strap, Adjustable for right-handed and left-handed use	\$15.00

Note: Post sales options are existing accessories that are compatible with the new thermal imagers

Launch details

- Orderable starting May 1, 2015
- Launch July 27, 2015
- Extended warranty promotion has been extended till May 31, 2016



Sales tools and collaterals that are ready



- In-box flyers on extended warranty promotion
- Datasheet
- Product fact sheet
- eDM
- Web banner
- Updated 8 page and 40 page handheld brochures.
- Application note – Thermography for Photovoltaic Panels
- Channel launch fact sheet for promotions
- Press release content

Gateway NPI folder:

<https://partners.keysight.com/Entitled/Literature.aspx?LiteratureId=47648>

Promotion: Extend your warranty for FREE!

Register now and get 5 years of warranty!



Register TrueIR series thermal imager and get 2 years extended warranty at no extra charges.

Register at www.keysight.com/find/hh_5warranty

This offer is valid WW, except Japan.

This offer is valid through **May 31st, 2016**

Note: U5856A and U5857A will be included in this promotion upon launch