



"Free Style" thermal imaging camera offers various camera styles

A new style of thermal imaging camera "Thermo FLEX F50" has a removable camera-head and controller. You can take various measurement styles in a wide variety of measurement scenes!



Rotation Style: Camera-head can be tilted and can be mounted on the both joint of controller.



Separation Style: Removed camera-head from controller. Camera-head can be freely operated.



The camera-head and controller can be mounted on tripod by

"Look Up", "Look Down", "Turn Around", "Attach On", "Put In" — Shoot Freely in Any Styles!

Efficient measurement is possible even in the place such as narrow space and inside a device, etc.



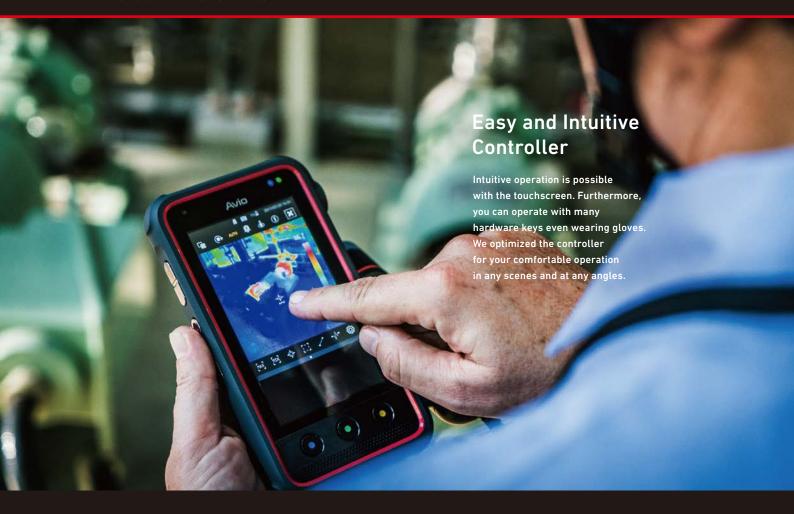
Rotating camera-head by tilting sense provides you comfortable shooting without facing upward to the high angle.



You can shoot from any angle comfortably by the removable camera-head while watching the controller.



The camera-head can be attached to a helmet with a sense of wearable or the controller, and can be attached to a pole as camera stick.



Easy Touch Operation even Beginners



The function such as "Temperature Scale Setting" and "Point Measurement" by touch operation are equipped. Intuitive operation makes the thermal measurement easy and efficient.

Easy Hardware Key Operation even wearing gloves



Frequent operation such as "Temperature Scale Setting" and "Recording" can be performed by hardware key. Comfortable one-hand measurement is possible even wearing gloves.

Up to 70°C heat-resistant camera-head



The small camera-head can be put into a device such as thermostatic chambers. You can operate remotely by touchscreen of the external controller while checking the measurement status.

Attachable camera to tripod and wall



The camera-head and controller can be mounted on a tripod or fixed on a wall for stable and easy measurement. The camera can be supported various usages with many combinations of commercial accessories freely.



Customize button

Customized buttons for more efficient measurements You can set frequently used functions



Assignable functions

- Light ON / OFF Image rotation Composite display switching
- Auto scale ON / OFF Temperature alarm ON / OFF
- Color alarm ON / OFF Information ON / OFF
- Menu display ON / OFF Switch to preview
- •Thumbnail switching •Live mode switching

Default

• Blue: LED light ON / OFF • Green: Auto scale • Yellow: image rotation

			Basic model (with main basic functions)		Standard model		Online model		
			F50A-BAS	F50B-BAS	F50A-STD	F50B-STD	F50A-ONL	F50B-ONL	
	Field of View*1		35°×35°	70°×70°	35°×35°	70°×70°	35°×35°	70°×70°	
Basic Performance	Spatial Resolution		2.8mrad	5.3mrad	2.8mrad	5.3mrad	2.8mrad	5.3mrad	
	Focal Distance		30cm to infinity*2	10cm to infinity*3	30cm to infinity*2	10cm to infinity*3	30cm to infinity*2	10cm to infinity*3	
	Focus		Focus Free						
	Infrared Detector		Uncooled Focal Plane Array (Microbolometer)						
	Spectral Range		8 to 14µm						
	Recording Pixels		240×240 pixels						
	Frame Rate		7.5Hz						
	Measuring Range		-20°C to 350°C*⁴						
	Sensitivity (NETD)		0.05°C at 30°C						
	Accuracy		±2°C or ±2% (Indicated Value)*5						
lmage Display	Auto Function		Auto Scale / Auto MAX / Auto point						
	Color Pallets		7 pallets (Olive, Rainbow, Brightness, Hot-white, Hot-black, etc.)						
	Gradation		256 / 128 / 64 / 16 grade						
	Visible Camera		CMOS camera 5M pixels						
	Visible/Thermal Fusion		Picture-In-Picture (with trimming function), Blending (transparency changeable, size & position adjustable)						
	Display Functions		1 to 4 times continuous digital zoom (Thermal, Visible, Fusion)						
Measuring Functions	Alarm Function		Alarm Display, Alarm Sound, Color Alarm, Alarm Recording						
	Temperature Correction		Emissivity (Full image, Multi-point), Environmental/Background, Emissivity Table						
	Point Temperature		5 Movable Points, Temperature Search:MAX/MIN x1 each						
	Temperature Display in Assigned Region		BOX × 1 (MAX, MIN and AVG in Box)						
	Line Profile		— Line × 1						
	Delta Temp		—— Delta T × 1						
Storage & Output	Storage Device		micro-SD Card, Conforms to SDHC						
	Data Storage	Data Form	Still Image : JPEG with temperature data (14 bit) Recorded with, Visible Image						
		Continuous Recording			Max 7.5Hz (Up to 10 sec.)				
		Interval Recording	_	<u>-</u>			3 sec to 60 min interval, with Visible Image recorded		
		Trend Graph	<u></u>				sv format		
		Line Profile		— csv format					
		Voice Recording	30 sec Recording, replay per a Thermal image						
		Text Annotation	Annotate up to 128 Characters per a Thermal Image. Characters imported from SD Card						
		File Transfer			USB2.) (MTP)			
	Real Time Transfer			-		-	USB2.0 Image transfer (Thermal Image with vi	sible image. Maximum transfer speed 1	
	Display		4.8 inch HD (720 × 1280 pixels), Touch Panel						
	Auxiliary		LED Light (equipped Camera Unit)						
	Environment Resistance	Operating Temperature & Humidity	Camera Unit : -20°C to 70°C, 90%RH (non-condensing) / Controller Unit : -20°C to 50°C, 90%RH (non-condensing)						
		Storage Temperature & Humidity	Camera Unit: -40°C to 60°C, 90%RH (non-condensing) / Controller: Unit: -40°C to 60°C, 90%RH (non-condensing)						
Others		Drop, Vibration & Shock	Engineered to withstand 1m drop, 29.4m/s² (306), 294m/s² (306)						
		Dust & splash proof	Protection class IP64 equivalent						
		EMC	Conforms to CE regulations (Class A)						
	Power	Battery	Lithium-ion (built-in) Battery Operation: 4 hours (Typ.) (with power saving mode)						
	Supply	AC Adapter	100V - 240V AC.50/60Hz (AC Adapter by USB cable, micro B connector)						
	Dimensions			Camera Unit : Approx. 30mm×40mm×130mm (excluding projection and cable) / Controller Unit : Approx. 169mm(H)×92mm(W)×24.5mm(D)(excluding projection and cable					

measuring range is -20 to 300°C. '5 Environmental temperature: 0 to 40°C (other conditions: ±4°C or ±4%) '6 In order to transfer Thermal motion image by F50A-ONL/F50B-ONL, it is required to upgrade to 'InfReC Analyzer NS9500 Professional' (optional software) *This product is subject to the United States' Export Administration Regulations (EAR) for the reason that it incorporates U.S.-made components and parts. Depending on its destination or subsequent user's purpose or business, U.S. Government agreement and authorization prior to re-exporting, reselling or retransferring might be required. For details please consult our sales staff. Company names and product names used are trademarks or registered trademarks o



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WARNINGS & CAUTIONS

Carrying case, micro SD Card, micro SD Card Adapter, USB AC Adapter, micro USB cable (for power feeding and connection),

Neck Strap, Operation Manual, Software(NS9500LT)

•Before using product, please carefully read the provided Operation Manual "WARNINGS & CAUTIONS" section to ensure proper operation. •Please do not place the product in high temperature, high humidity or high inert gas environments.

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