Thermo FLEX F50



Customize button

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		BDX × 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*6 with temperature data (14 bit) Recorded with, Visible Image					
		Continuous Recording	—— Мах 7.5Hz (Up to 10 sec.)					
		Interval Recording	_	-	3 sec to 60 min interval, with Visible Image recorded			
		Trend Graph		-	csv 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					
	Interface	File Transfer			USB2.0	(MTP)		
	interrace	Real Time Transfer	<u> </u>	-	_	_	USB2.0 Image transfer (Thermal Image with	ı visible image. Maximum transfer speed 7.5 l
Others	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)*8 / 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)					
		Drop, Vibration & Shock	Engineered to withstand 1m drop, 29.4m/s² (3G), 294m/s² (3G)					
		Dust & splash proof		Protection class IP54 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)					
	Weight		Camera unit : Approx. 100g / Controller unit : Approx. 400g (excluding cable)					
	Accessory		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)					

√ NIPPON AVIONICS CO.,LTD. https://www.avio.co.jp/English/

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WARNINGS & CAUTIONS

•Before using this 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.

Distributor:





THERMAL IMAGING CAMERA "Thermo FLEX F50"

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"Free Style" thermal imaging camera offers various camera styles

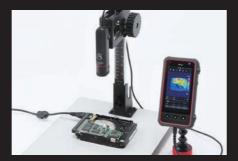
A new style of thermal imaging camera "Thermo FLEX F50" has a removable camera-head and controller. You can take various measurement styles in a wide variety of measurement scenes!



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 screw.

"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.

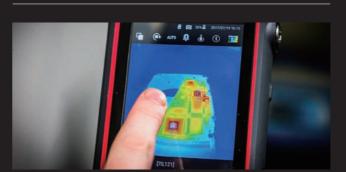


You can shoot from any angle comfortably by the removable camera-head while watching the controller.



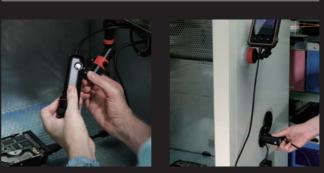
The camera-head can be attached to a helmet with a sense of wearable or the controller, and can be attached to a pole as camera stick.

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.

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.

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.

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.