

Infrared Thermal Imaging Camera InFRc F50 series: Specification								
BAS: Basic, STD: Standard, ONL: Online								
		Basic model (with main basic functions)		Standard model		Online model		
		F50A-BAS	F50B-BAS	F50A-STD	F50B-STD	F50A-ONL	F50B-ONL	
Basic Performance	Field of View ^{*1}	35°×35°	70°×70°	35°×35°	70°×70°	35°×35°	70°×70°	
	Spatial Resolution	2.8mrad	5.3mrad	2.8mrad	5.3mrad	2.8mrad	5.3mrad	
	Focal Distance	30cm to infinity ^{*2}	10cm to infinity ^{*2}	30cm to infinity ^{*2}	10cm to infinity ^{*2}	30cm to infinity ^{*2}	10cm to infinity ^{*2}	
	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						
Image Display	Accuracy	±2°C or ±2% (Indicated Value) ^{*5}						
	Auto Function	Auto Scale / Auto MAX / Auto point						
	Color Palettes	7 palettes (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)						
	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						
Measuring Functions	Temperature Display in Assigned Region	—		BOX × 1 (MAX, MIN and AVG in Box)				
	Line Profile	—		Line × 1				
	Delta Temp	—		Delta T × 1				
	Storage Device	micro-SD Card, Conforms to SDHC						
Storage & Output	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	—		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)		
	Real Time Transfer	—		—		USB2.0 Image transfer (Thermal Image with visible image, Maximum transfer speed 7.5Hz ^{*6})		
Display	4.8 inch HD (720 × 1280 pixels), Touch Panel							
Auxiliary	LED Light (equipped Camera Unit)							
Others	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)					
		Drop, Vibration & Shock	Engineered to withstand 1m drop, 29.4m/s ² (3G), 294m/s ² (30G)					
	Power Supply	Dust & splash proof	—				Protection class IP64 equivalent	
		EMC	—					Conforms to CE regulations (Class A)
Battery	Lithium-ion (built-in), Battery Operation: 4 hours (Typ.) (with power saving mode)							
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)							

*1 Tolerance : ±5% *2 For temperature accuracy : 100cm to infinity *3 For temperature accuracy : 30cm to infinity *4 Only camera Unit at the environmental temperature from 15 to 70°C. Condition at the environmental temperature from -20 to less than 15°C, 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 "InFRc 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 assessment 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 of each company. The screen in the catalog is a fitting synthesis. * Description of specifications, designs, prices, etc. may be changed without notice for improvement. The color of the photograph may differ slightly from the actual product color because of printing.