

NEW

NEC

Infrared Thermal Imager

Thermo Shot F30 Series

Small and light as a digital camera.
Excellent portability & operability.

NEC Avio presents you a new style of
thermal imaging.



Real-Size

Fits in your pocket

Compact but reliable tool when you go out measuring. Put it in your pocket, pull out and take a shot easily.

Ultra-light **300g**

F30 weighs approx. 300g only. Designed like a digital camera and come in handy at many measurement needs.

User-friendly operation

Intuitive operation with clear-cut icons. Thermal imaging as easy as ABC even without a manual.

Focus free

No focusing is needed at distance of 1.3m or farther. Even entry-level users can obtain quality images.

Visible camera mounted

Capable to capture both thermal and visible images simultaneously. Easy report creation is possible with visible images of objects.

Saves analyzable JPEG data

You can open captured images at any PC. Post-measurement analysis is also available.

Minimum focal length of 10cm

Focuses as close as 10cm. You can easily get thermal images of small parts.

Uses AA-sized rechargeable battery

Uses AA-sized rechargeable batteries which are easily available. AA-sized alkaline battery can also be used in an emergency.

Hot shoe for expanding feature

Allows to add an external finder, LED light or other camera accessories from the marketplace.



NEC Avio Infrared Technologies Co., Ltd.

Specifications

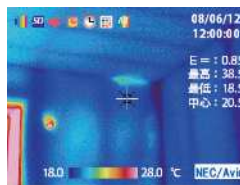
Model	F30W	F30S		
Basic Specifications	Infrared Detector	Uncooled focal plane array (microbolometer)		
	Spectral Range	8 to 13 μ m		
	Frame Time	8.5 frames/sec		
	Thermal Image Pixels	160 (H) x 120 (V) pixels		
	Field of View	28°(H) x 21°(V)		
	I.F.O.V.	3.1mrad		
	Focusing Range	10cm to infinity (Temp accuracy not assured at 50cm or closer)		
	Focus	Manual (at 1.3m or over: Focus-free)		
	Measuring Range	-20 to 350°C	-20 to 100°C	
	Resolution	0.2°C(0.1°C with S/N improvement)	0.1°C (at 30°C)	
	Accuracy	$\pm 2^\circ\text{C}$ or $\pm 2\%$ whichever is greater		
	Measuring Functions	Monitor	2.7" LCD	
		Visible Light Camera	Approx. 0.7M pixels	
Point Values		Center, max/min, movable (1 point), ΔT		
Emissivity Correction		Provided	Provided	
Background Compensation		Provided	Provided	
Isotherm		Provided	Provided	
Alarm		Display alarm, color alarm		
Image Improvement		Provided		
Color Palette		3 types available		
Image Storage		Format	JPEG with data	
	Storage Medium	SD card		
	Thumbnail Display	9 images		
Interface	USB 2.0	Provided		
	Video Output	Provided		
Power Supply	Batteries	Rechargeable NiMH batteries (3 pcs)		
	AC Power	Available with an optional AC adapter		
	Sleep Mode	Provided		
	Automatic Shutoff	Provided		
Environmental Specifications	Operating Temperature	-15 to 50°C		
	Protection	IP43		
	Dimensions	Approx. 100 x 65 x 45mm		
	Weight	Approx. 300g (including 3 batteries)		

**Specifications are subject to change without prior notice.

**Described company name and model are brand name or registration of trademark.

**Release date of F30S is to be announced.

Images



Thermal Image



Visible Image

Main Frame



Front



Back

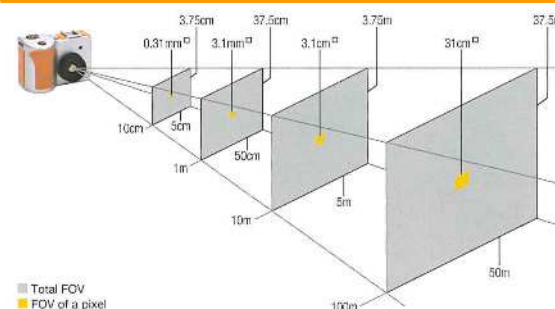
Standard Accessories

- Battery charger
- Rechargeable NiMH batteries (3)
- USB cable
- Hand strap
- Soft case
- Viewer software
- Operation manual
- Warranty certificate

Options

- Video cable
- Analysis software
- Tripod
- AC adapter

Measurement Distance and FOV



CAUTION FOR SAFETY

Please read "WARNING" & "CAUTION" in the operation manual attached to the product carefully for proper operation before using the product.

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