

# Housing Diagnosis by IR Thermography

“Heat” distribution of wall, floor, and ceiling visualizes **thermal insulation and brace**, etc., to check condition of housing, which gives useful data for **buying & selling of real estate, check before & after of renovation**

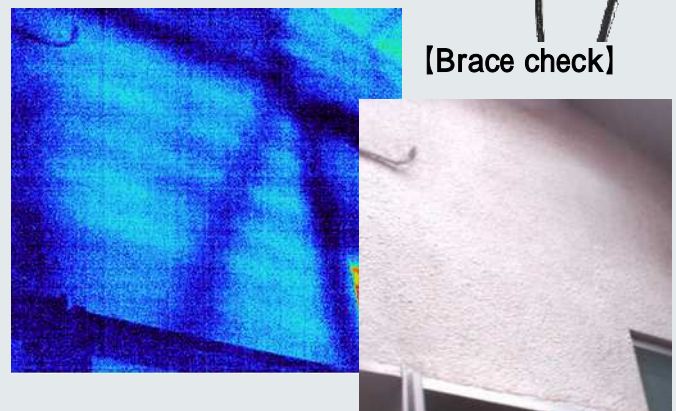
- Recommended model : Thermo Flex F50 Series
- 70° wide angle lens(F50B) **Wide angle shooting from short distance**
- Easy operation by touch panel
- Focusing is not required. **Focused clear image by anyone.**
- Detachable small camera (Visible camera, LED light)
- Inserting camera to tight spot, attic, under floor for shooting images**



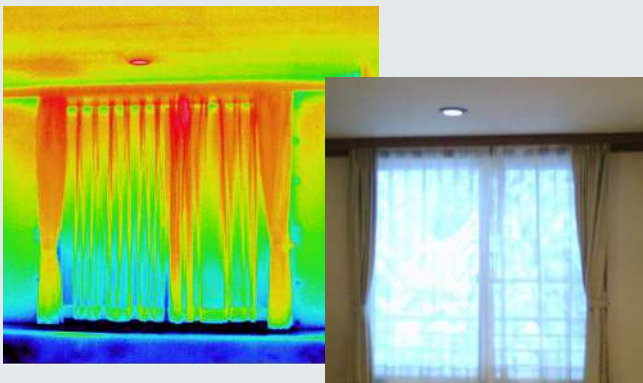
## [Thermal image samples]



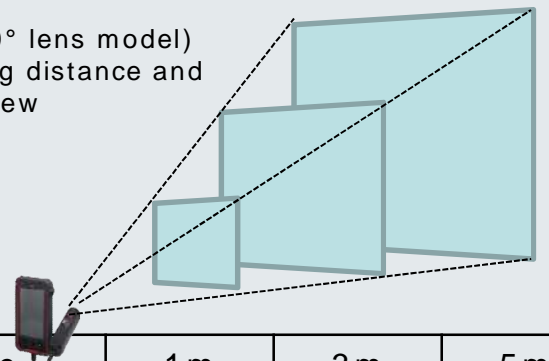
[Thermal insulation]



[Brace check]



F50B (70° lens model)  
Measuring distance and  
field of view



Checking of insulation and brace requires external thermal shock to object such as solar radiation, heating, air condition to cause temperature difference.  
It may not be available depending on structure of construction.

Distance	1 m	3 m	5 m
FOV(m)	1.4x1.4	4.2x4.2	7.0x7.0

# Thermo Flex F50 makes impossible thermal imaging possible

“Ultimate free angle” by detachable small camera head

Thermal imaging of attic, under floor and overhang of roof by commercially available accessory such as a selfie stick.



With Selfie Stick

## Thermo Flex F50 Series Specification

	Items	Basic Model		Standard Model	
		F50A-BAS	F50B-BAS	F50A-STD	F50B-STD
Basic Functions	Field of View	35°	70°	35°	70°
	Measurement Distance	30cm~	10cm~	30cm~	10cm~
	Focusing	Not required			
	Pixel Resolution	240×240 pixels (57,600 pixels)			
	Frame Rate	7.5Hz			
	Temp. Resolution	0.05			
	Measuring Temp. Range	-20~350			
	External Interface	USB2.0 mass storage			
	IP Rating	IP64			
	Impact Resistance	1m Fall			
	Operating Temp.	-20~70			
Weight	Approx. 500g (Camera 100g, Controller 400g)				
Main Body Functions	Message Recording	✓		✓	
	Voice Recording	✓		✓	
	Digital Zoom	✓		✓	
	Thermal/Visible Mixing	✓		✓	
	Auto Temp. Setting	✓		✓	
	Alarm	✓		✓	
	Point Temp. Measurement	✓		✓	
	Auto Tracking Point	✓		✓	
	Interval Recording	-		✓	
	Fire Recording	-		✓	
	2-points Temp. Subtraction	-		✓	
	BOX Temp. Measurement	-		✓	
	Line Profile	-		✓	
Trend Graph	-		✓		

Please see detail for brochure.

Avio offers most suitable model for all of your measurement needs.

 NIPPON AVIONICS CO., LTD.

Overseas Sales Department  
 Industrial Electronic Products Sales Division  
 4206, Ikonobe-cho, Yokohama, 224-0053, Japan  
 TEL +81-45-930-3596  
 Fax +81-45-930-3597  
 E-mail : [product-irc-e@ml.avio.co.jp](mailto:product-irc-e@ml.avio.co.jp)

<http://www.avio.co.jp/english/>



### 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: