

Real-time Temperature Data Analysis Onboard Test Drive

Challenge

It is required to acquire and analyze real-time thermal image data under harsh environment where PC is impossible to be brought in and be used.

Avio Solution!!

Avio **Thermo Flex F50** enables you to acquire and analyze real-time thermal image data under harsh environment where you are unable to bring in and use PC.

Advantage① **F50 allows you to measure and analyze** by its integrated functions of interval recording, trend-graph display, line-profile display, point temp. measurement, Max/Min temp. tracking.

Advantage② F50 has **high environmental durability** by which measurement and analysis is available where PC is unable to be used..

	Operating Environment	Vibration/Shock	Dust and Water
Camera Head	-20~70°C , 90%RH (No condensation)	1m Drop 29.4m/s ² (3G) 294m/s ² (30G)	Protection level IP64E equivalent
Controller	-20~50°C , 90%RH (No condensation)		

Advantage③ **Small camera head** makes thermal imaging possible under tough situation.

By F50, onboard temp. measurement of control circuit board under heavy vibration is possible without use of PC, which expands data acquisition opportunity

5m extension cable is available between camera head and controller.
Temp. data of suspension and engine room can be checked in driver's sheet.

Thermo Flex F50 makes impossible thermal imaging possible

“Ultimate free angle” by detachable small camera head

Thermal imaging by fixing small camera head using commercially available accessories



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°C			
	Measuring Temp. Range	-20~350°C			
	External Interface	USB2.0 mass storage			
	IP Rating	IP64			
	Impact Resistance	1m Fall			
	Operating Temp.	-20~70°C			
	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.

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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.

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