DKHIRT Handheld Infrared Thermometer Datasheet

DKHIRT Highlights

DKHIRT handheld infrared thermometer is designed to meet process performance requirements in many industrial applications, including highly demanding hot environments in primary and secondary metal processings, as well as petrochemical and power plant operations.

The strong and rugged design of this new generation portable thermometer withstands a 1m (2.2ft) drop test and provides longer operational cycle for up to 12 hours when powered with rechargeable battery.

DKHIRT handheld thermometer features intuitive user interface for easy parameter set-up and enables instant display of data analysis and trending, as well as fast and easy data transfer to computer via USB port.

To meet the highly demanding requirements of hot industrial environments, the DKHIRT infrared thermometer features high optical resolution 320:1, which ensures accurate temperature readings at longer distances. Center laser and scope sighting, visible even against "red hot" backgrounds, make this thermometer a perfect choice for high temperature applications.

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Temperature Ranges:	
DKHIRTL1	-25-500℃
DKHIRTL2	-25-1250℃
DKHIRTL3	100-800℃
DKHIRTH1	400-1800°C
DKHIRTH2	800-3000°C
Detector	
DKHIRTL1, DKHIRTL2	Thermopile 8-14µm
DKHIRTL3	InGaAs 2-3.1μm
DKHIRTH1	InGaAs 0.7-1.7μm
DKHIRTH2	Si 0.4-1.1μm
Accuracy	
DKHIRTL1,DKHIRTL2	\pm 1%(FS)
DKHIRTL3	\pm 0.5%(FS)
DKHIRTH1,DKHIRTH2	\pm 0.5%(FS)
Repeatability	±0.2%
Temperature Resoution	1°C
Response Time	
DKHIRTL1,DKHIRTL2	≤50ms
DKHIRTL3	≤5ms
DKHIRTH1,DKHIRTH2	≤5ms
Emissivity	0.10 to 1.00 (0.01)



Optical Specifications:

Typical Spot Size at Minimum Focus Distance			
Models	D:S	Minimum Spot Size	
DKHIRTL1	30:1	10mm@300mm	
DKHIRTL2	70:1	5.7mm@400mm	
DKHIRTL3	200:1	3mm@600mm	
DKHIRTH1	320:1	1.87mm@600mm	
DKHIRTH2	320:1	1.87mm@600mm	

Electrical Specifications:

Outputs	
Analog	NO
Digital	USB
Adjustable	Emissivity setting
	Laser control
	Working mode
	Response time
	°C/F
	Communication
Power Supply	7.4VDC 2200mA Li battery

General Specifications:

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Environmenta Rating	IP65
Ambient Temperature	0 to 65℃
Storage Temperature	-20-70℃
Relative Humidity	10-95%, non-condensing
Anti Disturbance	JB/T9233.11-1999
Thermal Shock	GB/T2423.1,GB/T2423.2
Dimension	L:227mm,W: 61mm,H:61
Weight	600g

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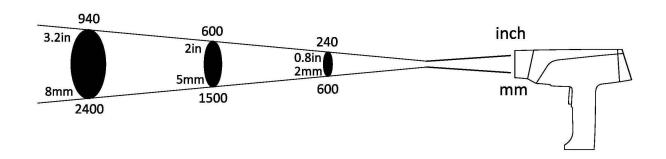


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Optical Resolution



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