



Handheld Thermography Camera

HIKMICRO G61 handheld camera is specially designed for temperature measurement. It's equipped with a 640 × 512 resolution thermal detector. It helps the staff to quickly find the high-temperature targets in the environment. Meanwhile, it provides assistance with decisions and ensures safety. The device is mainly applied to various industries, such as Building, Electrical utilities, oil and gas industry, etc.

Key Features

- High sensitivity thermal module with 640 × 512 resolution
- Supports multiple palettes
- High quality optical module with 8 MP resolution
- Bi-spectrum image fusion, picture-in-picture preview
- Wide temperature measurement range: -20 to 650° C
- High temperature measurement accuracy: Up to ± 2°C, ± 2%
- High-calibre 800 × 480 resolution 4.3" LCD touch display
- Long-distance laser light supplement for thermography targets
- LED light supplement makes the device a torch in required scenarios
- Supports 1x, 2x, 4x and 8x digital zoom
- Capture and combines 4X the data to 1280 × 960

Specification

THERMAL MODULE		
DETECTOR TYPE	Vanadium Oxide Uncooled Focal Plane Array	
IR RESOLUTION	480 × 360 (172,800 pixels)	
SUPER RESOLUTION	Capture and combines 4X the data to 1280× 960 (1,228,800 pixels)	
DETECTOR PITCH	17 µm	
SPECTRAL RANGE	8 μm to 14 μm	
NETD	< 35 mK (@ 25°C, F# = 1.0)	
FOV (FIELD OF VIEW)	25°× 19°	
IMAGE FREQUENCY	25 Hz	
FOCAL LENGTH	25 mm	
FOCUS	Continuous Autofocus/Autofocus/Manual Focus/Laser Assisted Focus/Touch Autofocus	
FOCUS SPEED	Approx. 2 second	
MIN. FOCUSING DISTANCE	0.3 m	
INTERCHANGABLE LENS OPTIONS	No	
IFOV (SPATIAL RESOLUTION)	0.68 mrad, D:S 1470:1	
APERTURE	F1.0	
OPTICAL MODULE		
BUILT-IN VISUAL CAMERA	3264 × 2448 (8 MP)	
FOCUS	Fixed	
FOV (FIELD OF VIEW)	65° × 51°	
PICTURE RESOLUTION	Configurable: 8MP, 5MP, 2MP	
VIDEO RESOLUTION	480 × 360	
IMAGE DISPLAY		
DISPLAY	800 × 480 Resolution, 4.3" LCD Touch Screen	
SCREEN BRIGHTNESS	Manual, Auto	
SCREEN BRIGHTNESS POWER SAVING MODE	Manual, Auto Standby Mode, off	
POWER SAVING MODE	Standby Mode, off	
POWER SAVING MODE DIGITAL ZOOM	Standby Mode, off 1x, 2x, 4x, 8x	
POWER SAVING MODE DIGITAL ZOOM COLOR PALETTES	Standby Mode, off 1x, 2x, 4x, 8x White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain	

LEVEL/ SPAN	Auto/Manual/1-Tap Touch-screen	
MINIMUM TEMP SPAN (MANUAL)	2°C (3.6°F)	
MEASUREMENT AND ANALYSIS		
OBJECT TEMPERATURE RANGE	-20°C to 650°C (-4°F to 1202°F)	
ACCURACY	Max. (± 2°C/3.6°F, ± 2%)	
MEASUREMENT PRESETS	Center Spot, Hot Spot, Cold Spot, Off	
USER-DEFINED MEASUREMENT POINTS	3 points	
USER-DEFINED MEASUREMENT LINES	1 line with max./min./avg. temperature	
USER-DEFINED MEASUREMENT AREAS	3 areas with max./min./avg. temperature	
HIGH TEMPERATURE ALARM	Audible Warning	
COLOR ALARM (ISOTHERM)	Above/Below/Interval/Insulation	
FOCUS-MODE PALETTES	Above/Below/Interval	
ON-CAMERA EMISSIVITY CORRECTION	Variable from 0.01 to 1.0 or selected from the materials list	
ON-CAMERA REFLECTED TEMPERATURE COMPENSATION	Automatic, based on the input of the reflected temperature	
ON-CAMERA TRANSMISSION CORRECTION	Automatic, based on the inputs for distance and humidity	
ON-CAMERA INSPECTION ROUTE	Enabled in the camera, work with HIKMICRO Inspector	
STORAGE		
STORAGE MEDIA	Default Storage: Removable SD Card (64 GB); Max. Storage Capacity: 128 GB	
IMAGE STORAGE CAPACITY	60,000 Images	
IMAGE FILE FORMAT	Radiometric image with Measurement Data Included	
VOICE NOTE	Max. 60 Seconds	
TEXT NOTE	Max. 200 Characters	
VIDEO STORAGE CAPACITY	54 Hours	
VIDEO FILE FORMAT	RV (Radiometric Video); MP4 (Non-Radiometric Video)	
POWER SYSTEM		
POWER SUPPLY	12 VDC/1.5 A, 5 VDC/2 A (Charging via USB)	
POWER CONSUMPTION	5 W	
BATTERY TYPE	Dismountable and Rechargeable Li-ion Battery	
BATTERT TIPE		

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BATERY CHARGING SYSTEMYow-bay battery charger or in-imager chargingAC OPERATIONAC operation with included power supply L100 VAC to 240 VAC, 50/60 Hz)CENERALSUL1 b/g/n [2.4 GHz and S GHz]BLUETOOTHBLUEtoOth 4.2USB Type-CSUCARD INTERFACESO CARD INTERFACEVesLED LIGH TITORCH)VesLASER POINTERIndoor distance: 50 m [164 fth: outdoor distance: 50 m [164 fth: outdoor distance: 50 m [164 fth: outdoor distance: 10 m [33 ft].HOMI INTERFACEMicro HDMILASER DISTANCE METERYesRECOMPTERT LIGHTYesRECOMPTERT LIGHTYesRECOMPTERT HIGHTYesRECOMPTERT HIGHTYesSAFETYIs (S 5 ft]WARANYYears for full product, 10 years for detector, and 2 years for batteryVCLLSocial Scial Scia	BATTERY CHARGING TIME	4 hours to full charge
General WI-FI 802.11 b/g/n [2.4 GHz and 5 GHz] BLUETOOTH Bluetooth 4.2 USB INTERFACE USB Type-C SD CARD INTERFACE Micro 5D card slot LED LIGHT (TORCH) Yes LASER DINTER Yes LASER TYPE Class II, Wavelength: 635 nm; Power: < 1 mW	BATTERY CHARGING SYSTEM	Two-bay battery charger or in-imager charging
Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BLUETOOTHBluetooth 4.2BLUETOOTHUSB Type-CSD CARD INTERFACEMicro SD card slotLED LIGHT (TORCH)YesLASER POINTERIndoor distance: 50 m (164 ft): outdoor distance: 10 m (33 ft).HADIENTERFACEMicro ADMILASER TYPEClass II, Wavelength: 635 nm; Power: < 1 mW	AC OPERATION	AC operation with included power supply (100 VAC to 240 VAC, 50/60 Hz)
BLUETOOTHBluetooth 4.2UISB INTERFACEUSB Type-CSD CARD INTERFACEMicro SD card slotLED LIGHT (TORCHIYesLASER POINTERIndoor distance: SD m LI64 ftl: Outdoor distance: 10 m (33 ftl).HDMI INTERFACEMicro HDMILASER TYPECases II, Wavelength: 635 nm; Power: <1 mW	GENERAL	
USB INTERFACEUSB Type-CSD CARD INTERFACEMicro SD card slotLED LIGHT (TORCH)YesLASER POINTERIndoor distance: SO m1164 f1); Outdoor distance: 10 m (33 ft).LASER DISTANCE METERMicro HDMLASER TOTSANCE METERMicro HDMLASER TOTSANCE METERMicro HDMLASER TYPEClass II, Wavelength: 635 nn; Power: <1 mW	WI-FI	802.11 b/g/n (2.4 GHz and 5 GHz)
No. CARD INTERFACEMicro SD card slotLED LIGHT (TORCH)YesLASER POINTERYesLASER POINTERIndoor distance: SD m [164 ft]; Outdoor distance: 10 m [33 ft].LASER DISTANCE METERMicro HDMILASER TYPEClass II, Wavelength: 635 nn; Power: <1 mW	BLUETOOTH	Bluetooth 4.2
LED LIGHT TORCHIVesLASER POINTERFoLASER DISTANCE METERMicro distance: 0 m (134 tl); outdoor distance: 1 m (33 tt).HMI INTERFACEMicro HDMILASER TYPESIG SI Mavelength: 635 m; Power: < 1 mW	USB INTERFACE	USB Туре-С
LASER POINTERYesLASER DISTANCE METERIndoor distance: 50 m (164 ft); outdoor distance: 10 m (33 ft).HOM INTERFACEMicro HDMILASER TYPEClass II, Wavelength: 635 nn; Power: <1 mW	SD CARD INTERFACE	Micro SD card slot
LASER DISTANCE METERIndoor distance: 50 m [164 ft]; outdoor distance: 10 m (33 ft).HOMI INTERFACEMicro HDMILASER TYPEClass II, Wavelength: 635 nm; Power: <1 mW	LED LIGHT (TORCH)	Yes
LASER DISTANCE METERoutdoor distance: 10 m (33 ft).HOMI INTERFACEMicro HOMILASER TYPEClass II, Wavelength: 635 nm; Power: < 1 mW	LASER POINTER	Yes
LASER TYPEClass II, Wavelength: 635 nm; Power: < 1 mWPROTECTION LEVELIP 54DROP TEST HEIGHT2 m (6.56 ft)WARRANY3 vaer for full product, 10 years for detector, and 2 years for batteryRCOMMENDED CALIBRATION CYCLE2 vaer for full product, 10 years for detector, and 2 years for batterySAFETYIE 66 101-1: overvoltage category II, Pollution Degree 2SAFETYIE 66 101-1: overvoltage category II, Pollution Degree 2BCOMMENDED CALIBRATION CYCLEIS 60532: 2015 + A11: 2020 ENSIGI - 2013 - 2013SAFETYIE 66 100-1: overvoltage category II, Pollution Degree 2BCOMPATIBILITYGelocation, Location data automatically added to every image from the built-in GPS ABDS ENSIGI - 2013 - 2013BS FCGIF 47, Part 15 Subpart BIVBATIONIO 32 / Hz (3.5 g. JE GE GOGE-2-6NIGRATIONIS - 2014 - 20	LASER DISTANCE METER	
PROTECTION LEVELIP 54DROP TEST HEIGHT2 m 6.56 ft)WARRANTY3 gears for full product, 10 years for detector, and 2 years for batteryRECOMMENDED CALIBRATION CYCLE1 year (assumes normal operation and normal aging)SAFETYIEC 61010-1: 0vervoltage category II, Pollution Degree 2ELECTROMAGNETIC COMPATIBILITYENS5032: 2015+A11: 2020 ENS0130-4: 2011+A1: 2014 ENG100-3-3: 2013GPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, ociNASS, or GALILEOVIBRATIONCFR 47, Part 15 Subpart BVIBRATION0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6VIBRATION2.01C to 50°C (-4°F to 122°F)STORAGE TEMPERATURE RAME EXCLATUPE HATURE RAME EXCLATUPE HUMDITY-20°C to 60°C (-4°F to 122°F)RELATIVE HUMDITYJS% non-condensingWEIGHTAprox. 1000 g (2.20 Lb)WEIGHTAprox. 1000 g (2.20 Lb)WEIGHTAprox. 1000 g (2.20 Lb)	HDMI INTERFACE	Micro HDMI
DROP TEST HEIGHT2 m (a.5.6 mt)WARRANTY5 years for full product, 10 years for detector, and 2 years for butteryRECOMMENDED CALIBRATION CYCLE1 year (assumes normal operation and normal aging)SAFETYEC 6101-1: Overvottage category II, Pollution Degree 2SAFETYEC 6101-1: Overvottage category II, Pollution Degree 2Support SupportSN5032: 2015+A11: 2020 SN5130-4: 2011+A1: 2014 SN5032: 2015-A11: 2020 SN5130-4: 2011+A1: 2014 SN5030-3: 2013GPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, SUPATIBILITYGPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, SUPATIS SUPATIS SUPATIS SUPATIS SUPATIS SUPATISRIS COMPLIANTFR 47, Part 15 Subpart BVIBRATIONG32/Hz (3.8 g), 2.5 g IEC 60068-2-6SIGKGS.9, IEC 60-2-29VIBRATION2.0°C to 50°C (-4°F to 122°F)SIGRAGE TEMPERATURE RAME-20°C to 60°C (-4°F to 140°F)RILATIVE HUMIDITYJSN on-condensingVIEGHTMaprix JON GUE (2.0 bL)WIEGHTBAPT, SUDO GUE (2.0 bL)WIEGHTSuprix 10.00 g (2.2 0 bL)	LASER TYPE	Class II, Wavelength: 635 nm; Power: < 1 mW
WARANTYJ gears for full product, 10 years for detector, and 2 years for batteryRCOMMENDED CALIBRATION CYCLEi year (assumes normal operation and normal aging)SAFETYIC 61010-1: Overvoltage category II, Pollution Degree 2SAFETYIC 61010-1: Overvoltage category II, Pollution Degree 2SupportINS5032: 2015+A11: 2020 INS0130-4: 2011+A1: 2014 Encloto-3-3: 2013GPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, GUNASS, or GALILEOVIS FCCCFR 47, Part 15 Subpart BVIS RATIONO13 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOK203 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6VIBRATION20°C to SO°C (-4°F to 122°F)STORAGE TEMPERATURE RAME20°C to SO°C (-4°F to 122°F)RELATIVE HUMIDITY0.5% non-condensingRELATIVE HUMIDITYSo% non-condensingVIEGHTAprox. 1000 g (2.20 Lb)NENSION847 rm x 120.6 m x 124.5 m x 12.5 "x 4.90"	PROTECTION LEVEL	IP 54
RECOMMENDED CALIBRATION CYCLE1 year (assumes normal operation and normal aging)SAFETYIEC 61010-1: 0vervoltage category II, Pollution Degree 2ELECTROMAGNETIC COMPATIBILITYENS5032: 2015+A11: 2020 ENS0130-4: 2011+A1: 2014 EN61000-3-3: 2013GPSGeolocation, Location data automatically added to every image from the built-in GPS, BDS, GLONASS, or GALILE0VIS FCCCFR 47, Part 15 Subpart BROHS COMPLIANTYesVIBRATION0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK25 g. IEC 68-2-29WORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 140°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITYS% non-condensingWEIGHTApprox. 1000 g (2.20 lb)DIMENSION284.7 mm × 120.6 mm × 124.5 mm (11.21" × 4.75" × 4.90")	DROP TEST HEIGHT	2 m (6.56 ft)
CYCLE1 year (assumes normal operation and normal aging)SAFETYIEC 61010-1: Overvoltage category II, Pollution Degree 2ELECTROMAGNETIC COMPATIBILITYFNS5032: 2015+A11: 2020 ENS1030-4: 2011+A1: 2014 ENS1030-4: 2011+A1: 2014 ENS1030-3: 2013GPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, EONASS, or GALLEOUS FCCFR 47, Part 15 Subpart BROHS COMPLIANTVesVIBRATION0.30 g/Hz (3.8 g), 2.5 g IEC 60068-2-6VIBRATION2.9 c to 50°C 1-4°F to 122°F)VORKING TEMPERATURE RANGE-20°C to 60°C (-4°F to 122°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RLATIVE HUMIDITY-20°C to 60°C (-4°F to 140°F)WEIGHTApprox.1000 g (2.20 lb)DIMENSION24.7 mm x 120.6 mm x 124.5 mm (11.21° x 4.75° x 4.90°)	WARRANTY	3 years for full product, 10 years for detector, and 2 years for battery
ELECTROMAGNETIC COMPATIBILITYENS5032: 2015+A11: 2020 ENS0130-4: 2011+A1: 2014 ENS0130-4: 2011+A1: 2014 ENS0100-3-3: 2013GPSGeolocation, Location data automatically added to every image from the built-in GPS, BDS, GLONASS, or GALILEOUS FCCCFR 47, Part 15 Subpart BROHS COMPLIANTYesVIBRATION0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK25 g, IEC 68-2-29WORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 122°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY495% non-condensingWEIGHTApprox. 1000 g (2.20 lb)DIMENSION84.7 mm x 120.6 mm x 124.5 mm (11.21″ x 4.75″ x 4.90″)		1 year (assumes normal operation and normal aging)
ELECTROMAGNETIC COMPATIBILITYENSOI30-4: 2011+A1: 2014 ENGIDOD-3: 2013GPSGelocation, Location data automatically added to every image from the built-in GPS, BDS, cloNASS, or GALILEOUS FCCCFR 47, Part 15 Subpart BROHS COMPLIANTYesVIBRATION0.3 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK25 g, IEC 68-2-29VORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 12°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 12°F)KIEATIVE HUMIDITY45% non-condensingVIEIGHTAprox.1000 g (2.20 lb)DIMENSION84.7 m x 120.6 m x 124.5 m x (1.21" x 4.75" x 4.90")	SAFETY	IEC 61010-1: Overvoltage category II, Pollution Degree 2
GPSGLONASS, or GALILEOUS FCCCFR 47, Part 15 Subpart BROHS COMPLIANTYesVIBRATION0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK25 g, IEC 68-2-29WORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 122°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY<95% non-condensing		EN50130-4: 2011+A1: 2014
ROHS COMPLIANTYesVIBRATION0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK56 g, IEC 68-2-9VORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 12°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY-95% non-condensingVEIGHTApprox.1000 g (2.2 0 Lb)DIMENSION84.7 mm x 120.6 mm x 124.5 mm (11.2 1" x 4.75" x 4.90")	GPS	
VIBRATIONO.33 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6SHOCK25 g, IEC 68-2-9WORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 12°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY<95% non-condensing	US FCC	CFR 47, Part 15 Subpart B
SHOCK25 g, IEC 68-2-29WORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 122°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY<95% non-condensing	ROHS COMPLIANT	Yes
VORKING TEMPERATURE RANGE-20°C to 50°C (-4°F to 122°F)STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY<95% non-condensing	VIBRATION	0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6
STORAGE TEMPERATURE RANGE-20°C to 60°C (-4°F to 140°F)RELATIVE HUMIDITY<95% non-condensing	SHOCK	25 g, IEC 68-2-29
RELATIVE HUMIDITY< 95% non-condensingWEIGHTApprox. 1000 g (2.20 lb)DIMENSION284.7 mm × 120.6 mm × 124.5 mm (11.21" × 4.75" × 4.90")	WORKING TEMPERATURE RANGE	-20°C to 50°C (-4°F to 122°F)
WEIGHT Approx. 1000 g (2.20 lb) DIMENSION 284.7 mm × 120.6 mm × 124.5 mm (11.21" × 4.75" × 4.90")	STORAGE TEMPERATURE RANGE	-20°C to 60°C (-4°F to 140°F)
DIMENSION 284.7 mm × 120.6 mm × 124.5 mm (11.21" × 4.75" × 4.90")	RELATIVE HUMIDITY	< 95% non-condensing
	WEIGHT	Approx. 1000 g (2.20 lb)
TRIPOD MOUNTING UNC ¼"-20	DIMENSION	284.7 mm × 120.6 mm × 124.5 mm (11.21" × 4.75" × 4.90")
	TRIPOD MOUNTING	UNC ¼"-20

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MENU LANGUAGE	21 Languages English, Russian, Hungarian, German, Italian, Czech, Slovak, French, Polish, Portuguese, Spanish, Romanian, Danish, Turkish, Korean, Traditional Chinese, Japanese	
COMPASS	Yes	
SOFTWARE		
PC SOFTWARE	HIKMICRO Analyzer/HIKMICRO Inspector	
АРР	HIKMICRO Viewer App	
CAST SCREEN	UVC Alarm Client	

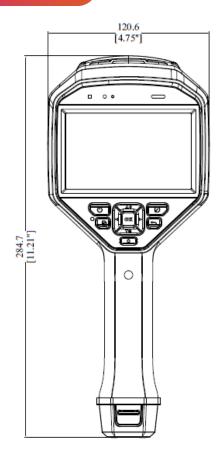
Please note that product specifications are subject to change without notice. Please check https://www.hikmicrotech.com for the latest changes.

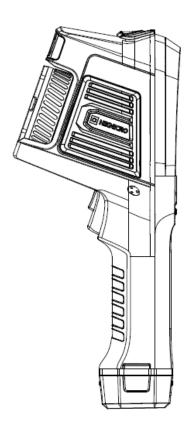


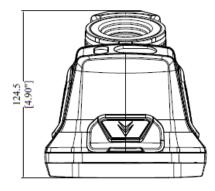
HM-TP76-25SVF/W-G61

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Dimension

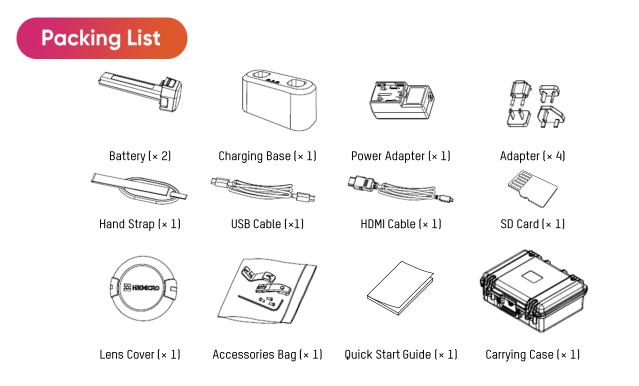






Unit: mm [Inch]

www.hikmicrotech.com



COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.





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