

Thermo GEAR G120EXD: Specifications



Model		G120EXD
Basic Performance	Measuring Range	-40°C to 1500°C R1: -20°C to 60°C R3: 0°C to 500°C R2: -40°C to 120°C R4: 350°C to 1500°C
	Resolution(NETD)	0.04°C (with S/N improvement at 30°C)
	Accuracy	R1,R2,R3: ±2°C or ±2% of Reading, whichever is greater R4: ±2% or less with full scale *
	Infrared Detector	Uncooled Focal Plane Array (microbolometer)
	Thermal Image Pixels	320(H)x240(V)pixels
	Spectral Range	8 to 14μm
	Frame Rate	8.5 frames / sec
	Field of View	32°(H)x24°(V)(standard lens fl=14mm)
	Spatial Resolution(I.F.O.V.)	1.78mrad
	Focal Distance	10cm to infinity (standard lens) (For temperature accuracy: 30cm to infinity)
	A / D Resolution	14bits
Operation / Image Quality Improvement	Focus	Auto / Manual
	Auto Functions	Auto-scale, Auto-focus, Full-auto
	Setting of Level/Sense/Span	Auto / Manual
	Operation Support Function	Setting of Item / Each Function / Status is displayed by icon.
	Multiple Language menu	16 Languages(English, Danish, Dutch, Finish, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish, Simplified Chinese and Traditional Chinese)
	Correcting Function	Correction for Emissivity, Distance, Environmental Reflection and Background.
	Averaging	Provided, Off / $\Sigma 4$ / $\Sigma 8$ / $\Sigma 16$ (with ghost rejection)
	Averaging Improvement	Provided

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	Filtering	Provided
	Edge Enhancement	Provided
Display Performance	Thermal / Visual Image Fusion Display	Fusion and Picture-in-Picture with Alpha Blending, and Split-Screen Display of thermal / Visual Image
	Color Palette	Rainbow, Iris, Brightness, Color, Hot Iron, Hot Black, Hot White
	Gradation	256, 16 and 8 tones
	Thumbnail Display	9 image display
	Digital Zoom	1 to 4 times
Measurement Performance	Panoramic Shooting Function	Provided (Scan Synthesis) Horizontal Equivalent to 100°, Vertical Equivalent to 75°
	Multipoint Temperature Display	Center, Max or Min & 5points
	Multipoint Emissivity Correction	5 points
	Emissivity Back Calculation Function	Provided
	Temperature Difference between Two Points	Provided
	Temperature Analysis Function in Assigned Region	Temperature Display of Maximum / Minimum / Average in assigned region (for up to 5 boxes)
	Profile	Horizontal / Vertical
	Alarm Function	Mode: Alarm Sound, Alarm Display, Vibration Alarm (G120EX Series only), Color Alarm ON / OFF, Setting Determination Temperature, External Alarm Output
Data Storage	Storage Device	SD Card, corresponding to SDHC
	Thermal Image Movie	8.5fps in SD card
	Still Image	Radiometric JPEG
	Interval Recording	3 s to 60 min, Automatic Recording of Thermal Image
	Event Trigger Recording	Provided
Interface	USB 2.0	Mass Storage Function
	Alarm Output	Contact Closure. No Voltage.
	Video Output	NTSC / PAL Changeover(Simultaneous use is unable with LCD)
Others	Laser Pointer	Provided(Class-2 Red Color)
	Visual Camera	2 Mega pixels CMOS Camera
	LED Light	Provided
	Voice Annotation	30 sec Recording / Replay per image
	Text Annotation	Annotate up to 128 characters with each Thermal Image. Import characters from SD Card.
	Display Unit	3.5 inch Color LCD Monitor(320 x 240) with Tilt function and brightness control function
	PC Software	InfReC Analyzer NS9500LT(Limited Function Version), provided as Standard Accessory
	Standard Accessories	Carrying Case, Battery Pack, Battery Charger, AC Adaptor, Wristband, SD card, USB cable, Operation Manual, Software(See above), Grip Belt
Power Supply	Rechargeable Battery	Lithium-ion Battery Pack (2,500mAh), 4 Hours of Continuous Use (typical)
	AC Power(AC Adaptor)	100V to 240V AC, 50 / 60Hz

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	Power Consumption	4.3W(typical)
Environmental Conditions	Operating Temperature / Humidity	-15°C to 50°C, 90% RH
	Vibration / Shock	29.4m/sec ² (3G) / 294m/sec ² (30G)
	EMC	Compliant to CE(Class-A)
Dust-proof / Splash-proof Construction		Protection Code: IP54 Equivalent
Dimensions		Approx. 212mm(H) x :76mm(W) x 138mm(D)(excluding projections)
Weight		Approx. 800g(including Battery Pack)
Origin		Japan
Certificate of Origin		Original
Certificate of Quality/Quantity		Original
Product Training		Provided at Customer site by Authorized Distributor