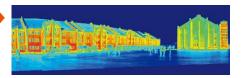






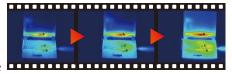
Wide-Angle Shot

World's First +1
Panoramic
Thermal Image +2



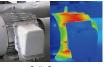
Thermal Image Movie

Direct Recording on SD Card in Fully Radiometric (G120EX:10fps, G120EXD:8.5fps)*2



IR/Visual Integrated Display

Split-Screen, Fusion, Alpha Blending



Split-Screen



Fusion

Averaging Improvement

Minimizes residual images of moving object while averaging



01 (n) 20,1 01/10,000

Existing averaging Function With 'Averaging Improvement'



World's First

*1

Vibration*2

Sound and Display

High Temp Measurement Up to 1500°C, Standard

3.5 inch LCD Screen Tilting Display for Flexible Easy Shooting Posture



Ideal for Short Distance 32°(H) × 24°(V)

Macro Shot

Min. Focus Distance:10cm

Easy Operation

GUI and Joystick for Intuitive Operation, Auto Focus/ Level-Sense

*1:World's first [Panoramic Thermal Image Shooting Function], [Vibration Alarm Function] (Surveyed by our company at end of December, 2009.) *2: Provided on G120EX Series only.



Specifications

		Item	G120EX G120EXD	G100EX	G100EXD
	Infrared Dete		Uncooled Focal Plane Array (microbo	lometer)	
Basic Performance	Spectral Ran	ge	8 to 14μm		
	Measuring Range		-40 to 1500°C		
	Sensitivity (NETD)		0.04°C at 30°C (with S/N improvement)		
	Accuracy		±2°C or ±2%*1		
	Frame Rate		60Hz 8.5Hz	60Hz	8.5Hz
	Detector Pixels		320(H)×240(V) pixels		
	Field of View		32°(H)×24°(V) (with standard lens)		
	Spatial Resolution		1.78mrad		
	Focal Distance		10cm to infinity (with standard lens)		
	Focus		Auto / Manual		
	Auto Functions		Auto-scale, Auto-focus, Full-auto		
	Color Pallet		Rainbow, Iris, Brightness, Hot iron, Hot white, Hot black		
	Gradation		256/16/8 tones		
	Visual Camera		CMOS camera 2M pixels		
ਡ਼		Fusion	Yes		
age		Picture-In-Picture	Yes		
Dis		Alpha Blending	Yes		
lmage Display		Side-by-Side	Yes		
y	Display	Digital Zoom	1 to 4 times continuous zoom		
	Functions	Multi-Image-Display	Display 9 images(replay mode)		
	Image Quality	Averaging	Off / Σ4/ Σ8/ Σ16 (with ghost rejection		
	Improvement	Edge Enhancement	Yes	N/A	
		Filtering	Yes		
	Point Temper		1 Center Point, 5 Movable Points		
		Temperature Search	MAX/MIN		
Measuring Functions	Delta Temperature		Yes		
	Temperature Display in Assigned Region		MAX, MIN and AVG in Box (for up to 5 Boxes)		
	Line Profile		Horizontal, Vertical or Horizontal & Ve		
2	Alarm functio		Alarm Sound, Alarm Display, Color A		
III CE		Vibration Alarm	Yes N/A		
ons		Alarm Recording	Yes		
	T	Alarm Output	Yes		
	Temperature	Correction Function	Emissivity, Environment/Background, Distance, NUC		
	Emissivity Storage Device		Multi-Point Correction, Emissivity Reverse Calculation, Emissivity Table SD Card, Compatibility SDHC		
	Data Storage		Still Image : JPEG with	Still Image : JPE0	2 with
			Temperature Data (14 bit).	Temperature Dat	a (14 bit),
			Movie : SVX file (exclusive), Visual Image Simultaneously Recorded	Visual Image Sim Recorded	ultaneously
Storage / Output		Panoramic Image	Horizontal Equivalent to 100°, Vertical Equivalent to 75°	N/A	
age		Movie Recording	Max 10 fps in SD Card Max 8.5 fps in SD Card	N/A	
<u>:</u>		Interval Recording	3s to 60min, Visual Image Simultaneously Recorded		
Ŧ		Voice Annotation	30sec Recording/Replay per Image		
Ę.		Text Annotation	Annotate up to 128 Characters with each Then	nal Image Import Chara	acters from SD Card
		USB2.0	Mass-Storage		
	Interface	Video output	NTSC or PAL (Simultaneous use with	LCD not available)
		Alarm output	Available (Contact Closure. No Voltage		
Þ			English, French, Spanish, German, Italian, Portuguese, Russian, Finnish,		
₽			English, French, Spanish, German. It	alian, Portuguese.	Russian, Finnish.
Auxilia Fi	Graphical Us Supported La		Danish, Norwegian, Swedish, Dutch,		
Auxiliary I Func	Graphical Us Supported La				
Auxiliary Mea: Function:			Danish, Norwegian, Swedish, Dutch,	Chinese (Tradition	al, Simplified),
Auxiliary Measuri Functions	Supported La Display Auxiliary		Danish, Norwegian, Swedish, Dutch, Korean and Japanese.	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Supported La Display	inguage	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Supported La Display Auxiliary	Laser Pointer	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color)	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Supported La Display Auxiliary Device Environment	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(30G), 294m/sec²(30G)	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Display Auxiliary Device	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes -15"C to 50"C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A)	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Supported La Display Auxiliary Device Environment Resistance	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5° LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(30G), 294m/sec²(30G) Compliant to CE (Class A)	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions	Supported La Display Auxiliary Device Environment	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(30), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bal	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions 0	Supported La Display Auxiliary Device Environment Resistance Battery Opera AC Power	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tit and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bat 100V to 220V AC, 50/60Hz	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Functions Other	Supported La Display Auxiliary Device Environment Resistance Battery Opera AC Power Power Consu	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes (Class-2 Red color) Yes —15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bat 100V to 220V AC, 50/60Hz 4.3W (typ)	Chinese (Tradition	al, Simplified),
Auxiliary Measuring Others Functions	Supported La Display Auxiliary Device Environment Resistance Battery Oper AC Power Power Consu Dimensions	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5° LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bat 100V to 220V AC, 50/60Hz 4.3W (typ) Approx. 212mm(H) × 75mm(W) × 138	Chinese (Tradition ness Adjustment A	al, Simplified),
Auxiliary Measuring Others	Supported La Display Auxiliary Device Environment Resistance Battery Opera AC Power Power Consu	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes (Class-2 Red color) Yes —15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bat 100V to 220V AC, 50/60Hz 4.3W (typ)	Chinese (Tradition ness Adjustment A	al, Simplified),
Auxiliary Measuring Functions Others	Supported La Display Auxiliary Device Environment Resistance Battery Oper AC Power Power Consu Dimensions	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof attion	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tilt and Bright Yes (Class-2 Red color) Yes (Class-2 Red color) Yes —15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-lon bat 100V to 220V AC, 50/60Hz 4.3W (typ) Approx. 212mm(H) × 75mm(W) × 134 Approx. 800g (including Battery Pages) AC Adapter ×1, Battery Charger ×1, SD Card ×1, USB Cable ×1, Wristba	Chinese (Tradition ness Adjustment A tery Bmm(D) (excluding) Rechargeable Li-lor nd x1, Grip Belt x1	al, Simplified), vailable) projections)
Auxiliary Measuring Others	Supported La Display Auxiliary Device Environment Resistance Battery Opera AC Power Power Consu Dimensions Weight	Laser Pointer LED Light Operating temperature / Humidity Vibration / Shock EMC Dust / Splash Proof attion	Danish, Norwegian, Swedish, Dutch, Korean and Japanese. 3.5" LCD Monitor (with Tit and Bright Yes (Class-2 Red color) Yes -15°C to 50°C, 90%RH 29.4m/sec²(3G), 294m/sec²(30G) Compliant to CE (Class A) IP54 4hours (typ), Rechargeable Li-Ion bat 100V to 220V AC, 50/60Hz 4.3W (typ) Approx. 212mm(H) x 75mm(W) x 138 Approx. 800g (including Battery Pack AC Adapter x1, Battery Charger x1, f	Chinese (Tradition ness Adjustment A tery Bmm(D) (excluding) Rechargeable Li-lor nd x1, Grip Belt x1	al, Simplified), vailable) projections) 1 Battery ×1,

^{*1} Operating Temperature : 0 to 40°C



[InfReC] is the coined abbreviation word of "Infrared Camera" and also has the meaning of [The Device Recording Infrared Information]. Our product research and development is targeted at improving the quality of life by protecting people and simplifying their daily tasks while measuring temperature, controlling environments, enhancing security, etc.

PC Software

InfReC Analyzer NS9500 Lite

Thermal Image Processing and Report Generator Software Easily identifiable menu system guides you to intuitive operation

[Features]

- Easy Report Generation (MS-WORD/MS-EXCEL Format)
- Rich Processing Functions

Fusion Display of Thermal Image / Visual Image Subtraction Function for Thermal Image

Panoramic Composite Function for Thermal Image Radiation Heat Quantity Analysis*

Length Measuring/Area Calculation Function *1 for Thermal Image

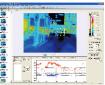
Trend Graph Display*1

Line Profile Display

Drawing Function for Designated Point / Line / BOX / Circle*1 / Polygon Shape*1

Analysis for Max./Min./Peak Temperature

- *1: Optional Software Model NS9500 Standard only
- * Compatible PC configuration, OS system and associated application software are to be consulted beforehand. Some old or new system might not be supported.



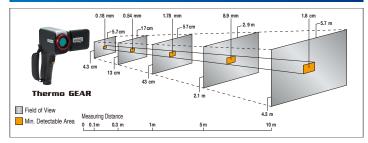




Options

Options	Model	Specifications / Remarks
2 x Telephoto Lens	IRL-TX02A-B	16°(H) x 12°(V) 0.89mrad (f=28mm)
Rechargeable Battery Pack	2UR18650F	2,500mAh, 4 Hours of Continuous use (typical)
Battery Charger	NC-LSC05-110V / NC-LSC05-220V	110v or 220v
AC Adapter	RC60G-09D-110V / RC60G-09D-220V	
LCD Hood	IRU-F01A	
Video cable	FVC-135A	3.5mm plug, 1.5m
Tripod (small)	U9800BK	
InfReC Analyzer Standard	NS9500STD-B	PC Software

Dimensions of Measuring Distance and Field of View (Standard 14mm Lens)



NIPPON AVIONICS has long experience and expertise in developing infrared cameras since the early 1970's.

There is a wide range of portable and fixed mount thermal imagers available. To find out more, visit us at : www.avio.co.jp/english/ or contact our local distribution partners.



• Listed specifications, appearance and design are subject to change without notice. • Company and commodity names are trade names or registered trade marks of each company. • NIPPON AVIONICS Co., Ltd. will not be responsible for any damage of infrared detectors due to incoming strong light (e.g. laser) through lens(es). • This product is subject to Japanese Export Control Law. Depending on its destination, prior assessment and authorization may be required. When exporting from country of initial purchase destination, please be sure to follow that country's export regulations as it may require an export permit beforehand.



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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:



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