InfReC InfraRed Camera

High-performance Online Analysis Program

InfReC Analyzer NS9500 Professional

InfReC Analyzer NS9500 Professional is a high-performance software which enables realitime measeurement, analysis, and report generating from thermal image and visible image.

Realtime image display & recording
Thermal image, visible image, and mixed image are displayed realtime, and recorded to PC(HDD) simaltanously.

Screen customization
Register frequently used command menus on the toolbar, and customize the display position of the operation window for ease of use

Camera control
From PC, focus adjustment, selection of measuring temperature range, execusion of cailbration can be remotely controlled.

Realtime measurement
Relitime display of measureing points (Max. 10 points) for Max. /Min./Ave. temperture.
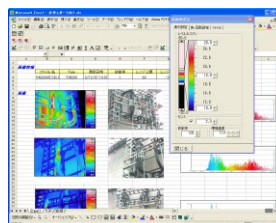
Trend graph display
Trend graph is dislpayed realtime durinig measurement. Trend data is out put as CSV file.

Detailed analysis, correction and editing

- Graphing, Analysis Function
  Histogram, trend graph, line profile, heat dissipation calculation, length/area size calibration, image subtraction
- Compensation functionsEmissivity compensation, Distance compensation, Lens distortion correction
  Image editing
- Panorama editing[5], thermal/visible image paralel display, image editing (Filtering/smoothing/edge enhancement/image enhancement[7])

Report output

- Freely lay out thermal images / visible images / graphs in Excel, Word templates, and output reports.
- The report editing function allows you to change the thermal image display settings (thermal image, figure settings) on the report.

NIPPON AVIONICS CO.,LTD.

Specification

Control	Camera Setting	Focus(Auto focus, Focus position adjustment), Range Switching, External lens compensation.
Display*¹	Temperature Scale	Continuous Auto, Manual
	Color Parellet	Color Parellet 7 types/Monochrome/reverse display, gradation(8,16,32,64, 128, 256 colors)
	Image Display	Isotherm display(color alarm), therml/visible image mixing display*² , digital zoom
	Image Improvement	Averaging
Measurement	Point Temperature	Designated point(10 points), Max./Min. temperature on the image
	Box Temperature	Box temperature (10 boxes), Max./Min./Average temperature display in the box.
	Trend Graph	Max./Min./ Average temperature of designated point, inside of the box.
Compensation	Emissivity Compensation	All image, designated point
	Others	Calibration (NUC), Interval NUC, Environmental reflection compensation(CAL)
Save	Video Recording*³	Thermal image (SVX) recording interval: •R550 series:1/120、1/60、1/30, 1/15, 1/10, 1/5, 1/2, 1 to 60［Sec.］ •R500EX series:1/30, 1/15, 1/10, 1/5, 1/2, 1 to 60［Sec.］ •R450 series:1/40, 1/20, 1/10, 1/5, 1/2, 1 to 60［Sec.］ •R300 series:1/60, 1/30, 1/15, 1/7.5, 1/5, 1～60［Sec.］ Visible image (AVI) recording interval: •R550/R500EX/R500 series:1/1.875、1 to 60[Sec.] •R450 series:1/2.5、1～60[Sec.] 　(R450-D:1/2、1 to 60[Sec.]) •R300 series:1/7.5、1 to 60[Sec]
	Still Image Recording*²*³	JPG or BMP
	Setting File	Camera control value/environmental settings

Operation	File Management	Thumbnail display, image editing, report database, file serch (Conditions: File name, date, tempature inside of figure, commnent)
Display	Temperature Scale	Arbitrarily set upper / lower / center temperatures
	Color Parellet	7 colors / monochrome / reversed display, gradation (8, 16, 32, 64, 128, 256 colors)
	Image Display	Isotherm display(ISO), therml/visible image mixing display*⁴ , digital zoom, contrast enhancement
	Others	Panorama editing*⁵, Audio playback*⁶
Measurement	Point Measurement	Designated point(20 points), auto temperature tracking(Max./Min.)
	Area Measurement	Box/Polygon/Circle(20 each), Max./Min./Average temperature of each figure
	Line Measurement	Line profile (vertical / horizontal / diagonal / rectangular / crosshair)
	Peak/bottom hold	Cursor display with Max. / Min. temperature in all images / each figure
	Trend Graph	Point temperature, Max. / Min. / Average temperature in all images / each figure
	Histgram	All images, Each figure
	Image Analysis	Thermal image subtraction, Heat dissipation calculation, Length/area measurement
Compensation	Emissivity Compensation	All images, designated points, figures, environmental temperature (background temperature) setting
	Image Compensation	Filtering, smoothing, edge enhancement, image enhancement*⁷
	Others	Distance compensation (ambient temperature, humidity, distance), lens distortion correction
Output	Data Output	Video: AVI, still image: BMP / JPG, temperature data: CSV / text
	Report Output	MS-Word Format, MS-Excel Format
Product configration		Installation disk(CD-Rom) with operation manual including Installation manual, license agreement, user registration card

(Left margin labels: On-line / Off-line)

Operating environment

Hardware	CPU	Core　i5　2.0GHz or higher
	Memory	2.0GB or higher
	Display	High resolution display XGA (1024x768) or higher. More than 65536(16bit) colors are required.
	Disk unit	CD-ROM drive HDD: 100MB or more free space required (for program installation)
	Interface	USB port for USB 2.0
Software	OS (Basic Software)	Windows10　Home/Professional/Enterprise　(32bit/64bit) Windows7　Ultimate/Professional/Home　Premium　(32bit/64bit) ※It can be used with Ver2.7A on Windows8.1 or earlier OS
	Appilcation	Microsoft　365　(32bit/64bit) Microsoft　Office　2019　(32bit/64bit) Microsoft　Word　2016　(32bit/64bit) Microsoft　Excel　2016　(32bit/64bit) ※Required for report output, data conversion.

Microsoft, Windows, Word and Excel are registered trademarks of Microsoft Corporation in the United States and other countries.
The product names listed above are trademarks or registered trademarks of the respective companies.

Compatible models*⁸, data format

If you already have our products and are considering purchasing this software, please contact your sales representative.

On-line (Recording data format)	R Series	JPG(Still image), SVX(Moving image), AVI(Visible Image)
Off-line (Playback data format)	R Series, G Series	JPG(Still image), SVX(Moving image)

NS9500 Series Function and Comparison Chart

			Professional	Standard	Lite*⁹
On-line	Control, Measurement, Save	Thermal image/Visible image/Mixing image*²	yes	N/A	N/A
		Image recording(Moving image/Still image)	yes	N/A	N/A
		Figure settings	yes	N/A	N/A
		Camera control	yes	N/A	N/A
		Trend graph	yes	N/A	N/A
		Image customization	yes	N/A	N/A
Off-line	Search	Database search	yes	yes	N/A
		Tempaerature value search	yes	yes	N/A
		Date time search	yes	yes	N/A
	Analysis	Point temperature	yes	yes	yes
		Area temperature	yes	yes	yes*¹⁰
		Hot/Cold spot	yes	yes	yes*¹¹
		Trend graph	yes	yes	N/A
		Histgram	yes	yes	yes
		Line profile	yes	yes	yes
		Thermal /Visible image mixing	yes	yes	yes
		Subtraction function	yes	yes	N/A
		Panorama editing function	yes	yes	yes
		Heat dissipation calculation	yes	yes	N/A
		Length/area calculation	yes	yes	N/A
	Output	Image save	JPG(Still image), BMP(Still image), AVI(Moving Image)		
		Excel save	yes	yes	N/A
		Text save (CSV)	yes	yes	N/A
		Report（Excel/Word）	yes	yes	yes
Others		Multilingual	yes*¹²	yes*¹³	yes*¹³

*1 The setting range conforms to the specifications of the connected device.
*2 R series only
*3 Saved data can be played back off line.
*4 It can not be played back when there is no visible data.
*5 Panorama mode data only
*6 Only when play back data with voice recorded.
*7 Only images shot by R-series super-resolution (SR) mode
*8 Not applicable to custom range, custom lens.
*9 NS9500Lite is a standard accessory software.
*10 Only BOX, Line
*11 Only eitire image, BOX, Line
*12 Japanese, English, Germany, Chinese(Traditional), Russian
*13 Japanese, English, German, Spanish, Chinese(Traditional, Simplified), Russian, Portuguese, Korean, French

InfReC InfraRed Camera [InfReC] is a coined word that stands for "InfraredCamera (meaning infrared camera)" and also means "a device that captures infrared information." In addition to the field of temperature measurement, we develop and provide products that contribute to the safety and security of society, such as environmental protection, security and fever screening.

★This software is a "catch-all regulated product" by the Japanese Government.
★In addition to the Group A (Ministry of Economy, Trade and Industry: see Appendix 3 of the Export Trade Control Ordinance), a license from Japan may be required for exporting or providing technology to non-residents.
★Please contact Avio sales for detail.

●The company names and product names described are trademarks or registered trademarks of the respective companies.
●The screen in the catalog is a inset synthesis-
●Specifications, designs, prices, etc. are subject to change without notice for improvement. Also, the color of the photo may be slightly different from the actual product color due to printing.

■ 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.

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：