

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. Screen customization Realtime image display & recording Register frequently used command menus on the toolbar, and customize the display position of the operation Thermal image, visible image, and mixed image are displayed realtime, and recorded to PC(HDD) simaltanously. window for ease of use Quick (Q) Menu (M) Save Settings Start Capturing Stop recording BOX Select object Utilities Visual image XQuit Application Snapshot MAX Set object Mixing image Data View View switch Camera Control Thermo ○ Visible ○ MIX Cameras Recording setting itial Settings OF Range -20 C - +60 C 40.0 37.7 Camera control 35.5 33.2 From PC, focus adjustment, 21.7 · C 31.0 selection of measuring temper ature range, execusion of 28.7 cailbration can be remotely Send 22.0 22 : 28.7 Camera Update 26.5 Date: 2020/02/20 256 sten ~ Object info Trend Graph 28.6 26.8 | fps=14.5 | nirBufferStack=0 Realtime measurement Trend graph display Relitime display of measureing Trend graph is dislpayed realtime durinig measurement. points (Max. 10 points) for Max Trend data is out put as CSV file. Min./Ave. temperture Report output Detailed analysis, correction and editing ■ Graphing, Analysis Function Freely lay out thermal images / visible images / Histogram, trend graph, line profile, graphs in Excel, Word templates, and output reports. heat dissipation calculation, length/area size The report editing calibration, image subtraction function allows you Compensation functionsEmissivity to change the thermal compensation, Distance compensation, image display settings Lens distortion correction (thermal image, figure Image editing settings) on the report. ■ Panorama editing*5, thermal/visible image paralel display, image editing (Filtering/ smoothing/edge enhancement/image enhancement*7)

Specification

0	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	Disignated 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.		
On-line	Compensation	Emissivity Compensation	All image, designated point		
не		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.] -R300 series:1/60, 1/30, 1/15, 1/7, 5, 1/5, 1/60 [Sec.] -R300 series:1/60, 1/30, 1/15, 1/7, 5, 1/5 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)		
		Temperature Scale	Arbitrarily set upper / lower / center temperatures		
	Display	Color Parellet	7 colors / monochrome / reversed display, gradation (8, 16, 32, 64, 128, 256 colors)		
	play	Image Display	Isotherm display(ISO), therml/visible image mixing display*4 , digital zoom, contrast enhancement		
		Others	Panorama editing*5, Audio playback*6		
		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		
읔	Меая	Line Measurement	Line profile (vertical / horizontal / diagonal / rectangular / crosshair)		
Off-line	Measurement	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 Output	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		
		Data Output	Video: AVI, still image: BMP / JPG, temperature data: CSV / text		
	but	Report Output	MS-Word Format, MS-Excel Format		
Pi	Product configration		Installation disk(CD-Rom) with operation manual including Installation manual, license agreement, user registration card		

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 Professional (32bit/64bit) Windows10 Professional (32bit/64bit)			
ware	Appilcation	Microsoft 365 (64bit) Microsoft Word 2016/2019/2021 (64bit) Microsoft Excel 2016/2019/2021 (64bit) **Required for report output, data conversion.		

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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	Cor	Thermal image/Visible image/Mixing image*2	yes	N/A	N/A
	Control, Measurement, Save	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
	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
Off-line		Line profile	yes	yes	yes
ine		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), A\	/I(Moving Image)
		Excel save	yes	yes	N/A
		Text save (CSV)	yes	yes	N/A
		Report (Excel/Word)	yes	yes	yes
Oth	ners	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] 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,

- ★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.

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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.

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