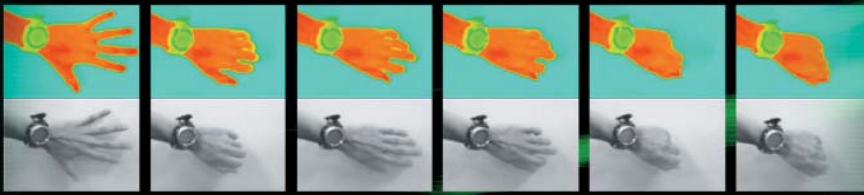


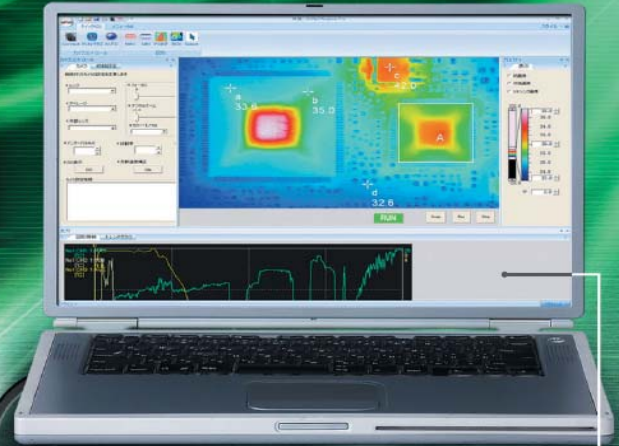
High-Performance - Multi-Purpose Thermography Camera

NEW Thermography R300

- Building Inspections
- Power Equipment Diagnostics
- R & D Demands High Sensitivity, Precision & Quality



Simultaneous Thermal/Visible/Fusion Video Recording Feature.



Powerful PC Software NS9500PRO Included with Camera. (Standard Accessories)

NS9500PRO Software Features:

- Simultaneous Video Capture of Thermal & Visible Images on PC via USB 2.0
- Thermal/Visible & Split Screen Display Functions Easily Identify Objects of Interest
- PC Change of Temperature Scale and Focusing
- Real-time, Point/Box Analysis with Graphics of MAX/MIN/AVG
- Create Real-time Trend Graphs & Isotherm Displays
- Easily Set Emissivity & Other Functions



Thermography R300 incorporates the latest advanced IR Sensor technology produced in Japan.

World-class High Image Quality & High Resolution.

- High resolution (NETD) of 0.05°C (at 30°C)
- High performance Accuracy: ±1°C
- Spatial Resolution (I.F.O.V.) 1.21mrad (standard lens)

Enhanced Field Measurement Features.

- Ergonomic Handheld Camera design supports easy image capture at any angle using included View Finder and Multi-angle Tilting Color LCD Display.
- Auto focusing feature & Remote Control Unit.

Various Recording Modes

- Direct Recording on SD Card in Fully Radiometric (10fps)
- Interval recording (3s to 1 h)
- Event Trigger Recording Mode
- Voice Recording (30s)

Various Temperature Measuring Features

- 3.5 inch Color LCD Screen with Tilt function & View Finder
- 3.1 Mega pixels Visual Camera
- Focal Distance: 10cm to infinity (standard lens) or (with STD lens)
- Various Lens Configurations including: 2x telephoto, 0.5x Wide angle, close-up, etc.



Specifications

Model	R300W2-NNU	R300W2-DNU	
Functions	Specifications		
Basic Performance	Temperature range	-40°C to +500°C, in 3 ranges up to +2000°C(optional)	
	Thermal sensitivity (N.E.T.D)	< 0.05°C at 30°C	
	Accuracy	±1°C or ±1% whichever is greater *1	
	Detector type	Uncooled Focal Plane Array (microbolometer)	
	Resolution	320(H)×240(V)	
	Spectral range	8 to 14μm	
	Frame Rate	60Hz	8.5Hz
	Field of view	22°(H)×17°(V)	
	Spatial Resolution (I.F.O.V)	1,21mrad	
	Focal Distance	10cm to infinity (standard lens) *2	
A/D Resolution	14bit		
Operating & Set-up controls	Automatic Focus	Provided	
	Setting of Level/Sense/Span	Auto / Manual	
	Multiple Language menu	16 Languages (English, Danish, Dutch, Finish, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish, Simplified Chinese and Traditional Chinese)	
Display Performance	Correcting Function	Correction for Emissivity, Distance, Environmental Reflection and Background.	
	Image Quality Improvement	Average, Median Filter, Edge Enhancement	
	Thermal / Visual Image Fusion Display	Fusion and Picture-in-Picture with Alpha Blending, and Split-Screen. Display of thermal / Visual Image	
Measurement & Analysis Mode	Color Palette	Rainbow, Iris, Brightness, Color, Hot Iron, Hot Black, Hot White	
	Gradation	256, 16 and 8 tones	
	Digital zoom	1-4X continuous	
	Panoramic Shooting Function	Provided (Scan Synthesis)	
	Multipoint Temperature Display	10 points	
	Multipoint Emissivity Correction	10 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	
Image File Storage	Temperature Search Function	Searching maximum / minimum temperature, automatic display of each position	
	Alarm Function	Alarm Sound, Alarm Display, Color Alarm, External Alarm Output	
	Storage Device	SD Card, corresponding to SDHC	
Interfaces	Thermal/Visible Image Movie	Provided(10fps)Storage in SD Card Provided(8.5fps)Storage in SD Card	
	Still Image	Radiometric JPEG, 14bit	
	Interval Recording	3 s to 60 min, Automatic Recording of Thermal Image	
Others Specifications	Event Trigger Recording	Provided	
	USB	USB2.0(Fully radiometric 14 bit real-time image/movie to PC*3, Mass Storage Function)	
	Event Trigger Recording	Provided	
Power Source	External Alarm Output	Provided(Contact Closure. No Voltage.)	
	wired-remotecontrol-unit	Provided	
	Video Output	NTSC / PAL Changeover	
Environment	Laser Pointer	Provided (Class-2 Red Color)	
	Visual Camera	3,1Mega pixels CMOS Camera	
	LED Light	Provided	
Dimensions	Voice Annotation	30 sec Recording / Replay per image	
	Text Annotation	Annotate up to 256 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, View Finder	
Weight	PC Software	Infrared Analyzer NS9500 for R300, provided as Standard Accessory	
	Standard Accessories	Hard Case, AC Adaptor, Battery Pack, Battery Charger, SD Card, USB cable, GripBelt, Shoulder strap, Lens-CAP, Wired Remote Control unit, Operation Manual, Software (See above), wired-remotecontrol-unit	
	Rechargeable Battery	Lithium-ion Battery Pack(2,500mAh), 2 Hours of Continuous Use (typical)	
Weight	AC Power (AC Adaptor)	AC100V to 220V, 50/60Hz	
	Operating Temperature/Humidity	-15°C to 50°C, at< 90%RH	
	Vibration / Shock	29.4m/sec ² (3G), 294/sec ² (30G)	
Weight	EMC	Compliant to CE (Class-A)	
	Dust-proof / Splash-proof Construction	Protection Code: IP54 Equivalent	
	Dimensions	Approx.121mm(H)x105mm(W)x193mm(D)excluding projections	
Weight	1,3 kg (including Battery Pack)		

*1: Operating Temperature: 10~40°C at Range 1 only, others ±2°C or ±2%
 *2: For temperature accuracy: 30cm to infinity

★ Company names, merchandise name listed on this brochure are brand or trade mark of each company.
 ★ Listed specifications/Design, etc. may be subjected to change for improvement without notice.
 Printed color images may differ slightly from actual product color image.

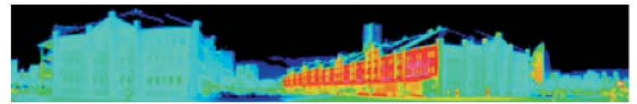
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 Web : http://www.nec-avio.co.jp/en/



Panoramic Thermal Image

By panning the R300 camera in a horizontal (or vertical) plane, a Panoramic Thermal Image is recorded without need for position alignment. This feature provides fast, wide angle, full radiometric images for reports and analysis.

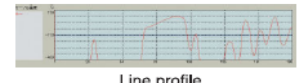
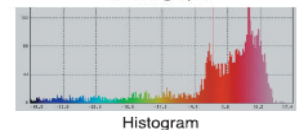
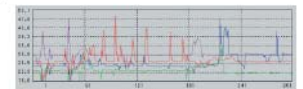
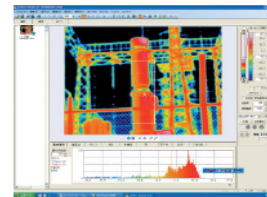


NS9500PRO PC Software Features

Measuring ▶ Analyze ▶ Report Generation

Easy 3-Step Thermal Image Processing and Report Generation Software. Intuitive Menu System simplifies data analysis and report creation.

- Point/Line/Box analysis with graphic representations (MAX/MIN/AVG).
- Numerous Graphing Features such as Histogram & Trends
- Free format Reports using WORD or Excel (add trademark symbols)
- Default Report Template can be easily edited even after report output.
- Numerical Data Conversion provided.

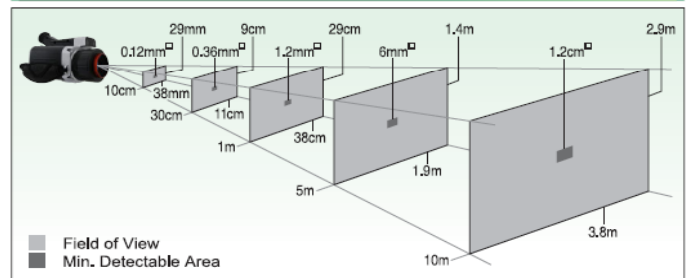


OS : WindowsXP, WindowsVista, Windows7(32bit)

R300 Option List

Options	Model	Specifications / Remarks
2000°C High	IRR-HR300B	200°C to 2000°C
Temperature Range		
2x Telephoto Lens	TVL-2044B	11°(H) x 9°(V)
0,5x Wide Angle Lens	TVL-2011B	44°(H) x 34°(V)
Close-up Lens		
AC Adaptor	RC45-09-110V/220V	110v or 220v
Rechargeable Battery Pack	T2UR18650F5928B	(2500mAh) Driving Hours: 2 Hours (typical)
Battery Charger	NC-LSC05-110V/220V	110v or 220v
LCD Hood	IRU-F01A	
Tripod (small)	U9800	

Dimensions of Measuring Distance and F.O.V



⚠ 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: