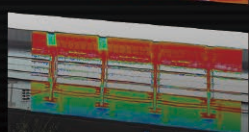
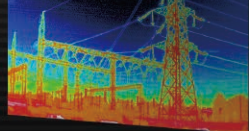
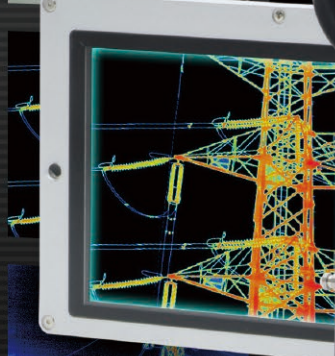
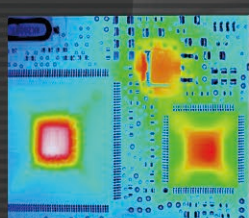
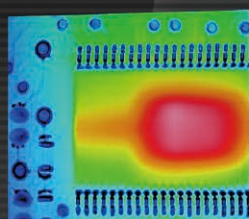
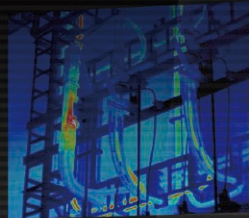




High Quality Image with 640×480 Pixel

High Resolution
Infrared Thermal Imaging Camera **H2640**



640×480 UFPA Detector

Resolution 0.03°C

Frame Time : 30 fps

Visual Light Camera

Auto/Manual Focus (Mechanical)

Thermal / Visual Fusion

High Speed Continuous Capture

IEEE1394 for Real-Time Capture

Voice & Text Annotation

IP54 Protective Case

**Capture Details in High Resolution. Feature Packed for ALL Applications.
Crisper, Clearer Images Using Advanced VOX Detector Technology.**

NIPPON AVIONICS CO.,LTD.

An NEC Group Company



Features

High performance

- 640x480 pixel high quality image
- Resolution : 0.03°C

Visual/thermal fusion, simultaneous image capture

- Visual light camera built-in
- Alpha blending, Resizable, Movable

Radiometric movie recording

- Real-time capture on PC via IEEE1394
- High speed continuous capture to internal memory

Excellent supporting functions

- Auto/manual focus(mechanical/motORIZED)
- LED illuminator and laser pointer
- Voice & text annotations

Various measuring functions

- Multiple emissivity correction in real-time
- Multi-focus function
- External trigger recording

Wide 5.6-inch LCD

- Bright LED-backlit screen-easy to see indoor/outdoor
- Pan-tilt display for flexible shooting posture

Easy to use-longer operation

- Battery life: Approx. 2 hours
- IP54 protective casing
- 200g lighter than preceding TH9260

Multi-language menu

- English, French, Portuguese, Spanish, Germany, Chinese(traditional), Chinese(simplified), Korean, Russian, Italian, Japanese

Specifications

Item	H2640	H2640D
Basic Performance		
Infrared Detector	Uncooled Focal Plane Array (microbolometer)	
Spectral Range	8 to 14µm	
Measuring Range	-40 to 500°C (Optional : 200 to 2000°C)	
Sensitivity (NETD)	0.06°C at 30°C 0.03°C at 30°C (with S/N improvement)	
Accuracy	±2°C or ±2%	
Frame Rate	30Hz	7.5Hz
Detector Pixels	640(H)×480(V) pixels	
Field of View	21.7°(H)×16.4°(V) (with standard lens)	
Spatial Resolution	0.6mrad (with standard lens)	
Focal Distance	30cm to infinity (with standard lens)	
Focus	Auto / Manual	
Image Display		
Auto Functions	Auto-gain control (Auto-scale), Auto-focus, Full-auto, Level trace	
Color Palette	Rainbow, Shine, Fine (Iris), Brightness, Hot iron, Medical (Display color :color/mono, positive/negative)	
Gradation	256/128/64/32/16 tones	
Multi-Sense-Display	Provided	
Visual Camera	CMOS camera 1.3M pixels	
Display Functions	Fusion Digital Zoom 2/4/8 times Multi-Image-Display Display 12 images (replay mode) Averaging Off / 2/ 8/ 16/ 32/ 64	
Image Quality Improvement	Edge Enhancement Median Filter Filtering Provided	
Multi-focus	Provided *1	
Measuring Functions		
Point Temperature	10 Movable Points	
Temperature Search	MAX/MIN	
Delta Temperature	Provided	
Temperature Display in Assigned Region	MAX, MIN and AVG in Box (for up to 5 Boxes)	
Line Profile	Horizontal, Vertical or Horizontal & Vertical (at Freeze mode)	
Alarm function	Alarm Sound, Alarm Display, ISO (Color Alarm)×4	
Temperature Correction Function	Emissivity, Environment/Background, Distance, NUC	
Emissivity	Multi-Point Correction (10 Points), Emissivity Table	
Storage / Output		
Storage Device	Thermal image in SIX (14bit) or BMP file format Visual image in SIX or JPEG file format	
Interval Recording	5 to 3600 sec (thermal image) 30 to 3600 sec (thermal & visual image)	
Movie Recording	max 30 fps in Real Time Memory (continuous capture up to 832 images)	max 7.5 fps in Real Time Memory (continuous capture up to 832 images)
Voice Annotation	30sec Recording/Replay per Image	
Text Annotation	Annotate up to 256 Characters with each Thermal Image Import Characters from CF Card	
Interface	USB2.0 IEEE1394a RS232C Video output NTSC or PAL, S-video (optional cable TH91-348 required)	
Auxiliary Measuring Functions		
Graphical User Interface's Supported Language	English, French, Spanish, German, Italian, Portuguese, Russian, Chinese (Traditional, Simplified), Korean and Japanese.	
User Setup	10 setups	
Display	5.6" LCD Monitor (with Tilt and Brightness Adjustment), Color View Finder (with Tilt Mechanism)	
Auxiliary	Laser Pointer Provided (Class-2 Red color) LED Light Provided	
Environment Resistance	Operating temperature / Humidity -15°C to 50°C, 90%RH Storage temperature / Humidity -40°C to 70°C, 90%RH Vibration / Shock 29.4m/sec ² (3G), 294m/sec ² (30G) Dust / Splash Proof IP54	
Battery Operation	2hours (typ.)	
AC Power	AC adapter (DC7.2V)	
Power Consumption	9W (typ.)	
Dimensions	Approx. 110mm(H) × 110mm(W) × 210mm(D) (excluding projections)	
Weight	Approx. 1.7kg (including Battery Pack, LCD)	
Standard Accessories	AC Adapter x1, Battery Charger x2, Rechargeable Li-Ion Battery x1, CF Card x1, CF Card adapter x1, USB cable x1, LED light x1, Neck Strap x1, Grip Belt x1, Software x1, Operation Manual x1, Lens Cap x1, and Carrying Case x1	
Standard Software	InfReC Analyzer NS9500Pro/NS9500LT	

*1 Image with multi-focus may not be obtained if there is little temperature difference.

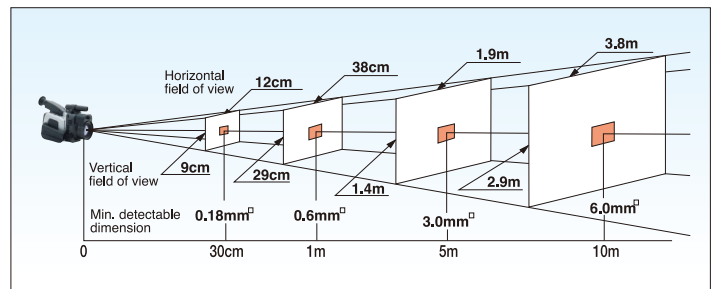
Options

Model	Product Name	Description
TH71-334, 359, 360	AC adapter	Safety standard : PSE, UL, CE, CSA (334:110V PSE, 359:220-240V CE, 360:110V UL)
TH91-465	Battery pack	Lithium ion battery
TH71-339, 340	Battery charger	With 2 battery slots (339:200-240V, 340:100-110V)
TH92-490	High temperature range	200 to 2000°C
TH92-481	5"telephoto lens (4.5x)	4.9"×3.7" focusing range : 20m to infinity
TH92-482	10"telephoto lens (2x)	10.9"×8.2" with visual camera, focusing range : 2m to infinity
TH92-483	42"wide-angle lens (0.5x)	45.2"×33.7" with visual camera, focusing range : 0.3m to infinity
TH92-486	100µm close-up lens	Min. detectable size : 100×100µm, scan range : 64×48mm, working distance : 195mm (Add-on type)
TH92-485	25µm close-up lens	Min. detectable size : 25×25µm, scan range: 16×12mm, working distance : 11mm (Add-on type)
TH92-488	Lens adapter	For attaching TH9100 close-up lenses to H2640 (Applicable lenses : TH91-385/386)
TH92-491	2nd year product warranty	Except temperature calibration

Software

Model	Product Name	Description
NS9500PRO	Capture, analysis and report generator software	Real-time image data transfer via IEEE1394 (H2640). Requires WindowsXP (32bit), WindowsVista (32bit) or Windows7 (32/64bit). Microsoft Excel and Word required for report generation.
NS9500LT	Report generator software	Radiometric data viewer, analyser, reporter (license free)
TH92-717	IEEE1394 data capture software with cable	For real-time image data transfer via IEEE1394, comes with 4m cable

Field of View Diagram (Thermal image)



■ 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.

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