		Fe	ature	R450Pro	R450Pro-D	R450	R450-D	
	Infrared Detector			Uncooled Focal Plane Array (Microbolometer)				
Basic Performance	Spectral Range			8 to 14 µ m				
	Measuring Range			-40 to 1500°C -40 to 650°C				
	Sensitivity (NETD)			0.025°C at 30°C (with S/N improvement)				
	Accuracy			±1°C *1				
	Frame Rate			40Hz	8.0Hz	40Hz	8.0Hz	
form	Detector Pixels			480(H) × 360(V) pixels				
nance	Recording Pixels			Standard mode: 480(H) × 360(V), Super Resolution (SR) mode: 960(H) × 720(V) *2				
	Field of View			24°(H) × 18°(V) (with standard lens)				
	Spatial Resolution			Standard mode: 0.87mrad , Super Resolution (SR) mode : 0.58mrad equivalent *3				
	Focal Distance			10cm to infinity (with standard lens) *4				
	Focus			Auto/ Manual				
Image Display	Auto Function			Auto Scale, Auto Focus, Full Auto				
	Color Pallets			7 pallets (Rainbow, Brightness, Hot-white, Hot-black, etc.)				
	Gradation			256 / 32 / 16 / 8 grade				
	Visible Camera			CMOS camera 5M pixels				
spla	Visible/Thermal Fusion			Side-by-side, Fusion (transparency changeable), Picture-In-Picture(transparency changeable)				
<	Display Functions Image Quality Improvement			1 to 8 times continuous zoom (with display positioning scroll), Grid Overlay, 9 images multi-display (replay mode)				
				Denoising, Averaging (with ghost rejection), Edge enhancement				
Measuri	Point Temperature				10 Movable Points, Temperature search: MAX/MIN x 1 each, Delta T			
	Temperature Display in Assigned Region			MAX, MIN and AVG in BOX (Up to 5 boxes) N/A				
	Line Profile			Horizontal, Vertical, Horizontal & Vertical				
				Alarm Display, Alarm Sound, Color Alarm, Alarm Recording,				
8	Alarm Function Temperature Correction Emissivity			Alarm Signal Output		N/A		
Measuring Functions				Emissivity, Environmental/Background, Distance				
				Multi-point Correction, Emissivity Table				
				Emissivity Reverse Calculation N/A				
	Drift Stabilizer			Yes		N/A		
	Storag	ge Device		SD card, Conforms to SDHC				
	Data Format			Still image: JPEG with temperature data,14bit (with visible image) Movie: SVX file (Dedicated format)				
	Data Storage				Still image(JPEG with temperature data,14bit), Recorded with visible image			
	Super Resolution (SR)			Yes				
Str		Quick Panorama		Horizontal equivalent to	Horizontal equivalent to 75°/ Vertical equivalent to 56°			
		SD Movie Recording		Max 5Hz	Max 4Hz	N/A		
		Interval Recording		3 sec to 60 min interval,	with Visible image recor	ded		
		External Tr	rigger Recording	Yes N/A				
gero	Voice Recording		30sec Recording, replay per a Thermal image					
Storage & Output	Text Annotation			Annotate up to 128 Characters per a Thermal Image. Characters imported from SD Card				
		USB2.0						
	Interface		Mass Storage	Yes				
			Movie Data Transfer	Thermal image: Max: 40Hz, Recorded with visible image *5	Thermal image: Max: 8Hz, Recorded with visible image *5	Thermal image: Max: 40Hz, Recorded with visible image *5		
			External Trigger Input	Automatic recording fun-		N/A	1.0	
		Video Outr		NTSC / PAL Switchable				
		Alarm Out						
		External Trigger Input		Contact Signal. No Voltage N/A Pulse Signal N/A				
	Display				tilt and brightness adirect		ar (with tilt adjustment)	
Others	_			3.5" LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) Laser Pointer (Red, class 2, IEC 60825-1 2007/2014), LED Light, Remote Controller				
	Auxiliary Operating Temperature & Humidity			-15° C to 50° C, 90%RH (non-condensing)				
	20 50	Operating Temperature & Humidity Storage Temperature & Humidity		-15° C to 50° C, 90%RH (non-condensing) -40° C to 70° C, 90%RH (non-condensing)				
	esist	Vibration & Shock		29.4m/sec ² (3G)、294m/sec ² (30G)				
	Environment Resistance	EMC		Conform to CE regulations (Class A)				
	° ¾	-	ash proof	Protection class IP54 equivalen				
	Dust & splash proof Battery Operation				2.5hours (Typ), Rechargeable Li-Ion battery			
	AC Power				100V — 220V AC, 50/60Hz			
	Dimensions			Approx. H121mm×W105mm×D195mm (excluding projection)				
	Weight			Approx. 1.3kg (including Battery Pack)				
				Wired remote Controller x 1, SD Card x 1, USB Cable x1, Neck Strap x 1, Grip Belt x 1,				
	Standard Accessories			Rechargeable Li-Ion Battery x 1, Software x 1, Operation Manual x 1, and Carrying Case x 1				
		ard Software		InfReC Analyzer NS9500Professional InfReC Analyzer NS9500Standard *6				
*1 Only the Range 1 at the environmental temperature from 20 to 30°C (In other condition, it is ±2°C or ±2%.) *2 Still Image Only								
*2 Still image Only *3 This increased resolution results from detecting characteristic within all frames acquired by the SR process and removing such effects as those caused by								
and vib	ration.							
			y: 30cm to infinity	_				
			i image transfer speed at 40H nal image movie data by R450		rade to " InfReC Analyze	r NS9500 Professional	" (optional software).	
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