

Infrared Thermal Imaging Camera

For Passing Through Flame

InfReC R300BP-TF

Through Flame

Uncooled

Light Weight And Compact

Maintenance-free operation and detecting 3.8µm wavelength band thanks to Japanese-made uncooled infrered detector!

■ Maintenance of a cooling mechanism is unnecessary

Making Quick Shot in a harsh environments by a infrared camera with outstanding mobility and operability in the field.

- Lightweight and compact body weighing only 1.5kg. *1
- A rotational LCD monitor enables images to be captured at various angles
- Thermal movie images can be recorded on SD card.

Folding protection shield included as standard

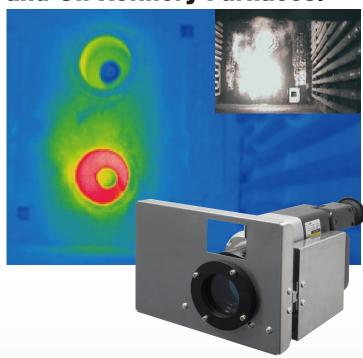
■ Imaging is possible while assuring the safety of the operator from intensive radiant heat

Combination with relay lens*2 inserted in the furnace is available

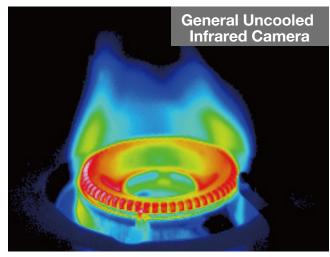
A wide field of view (Up to 100°) is available through a furnace wall window.

**1:It is including a battery pack and excluding protection shield **2:Relay lens is custom made for customer

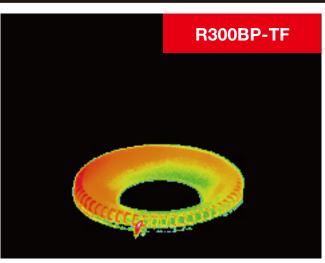
Sharp Image Passing Through Flame inside of Coal and Oil Refinery Furnaces!



The flame is eliminated by the "Japanese-made" infrared detector with a passing-flame filter with outstanding sensitivity at 3.8µm wavelength band



In the wavelength range (8 to $14\mu m$) of the general uncooled infrared detector, the influence of the flame is clearly present.

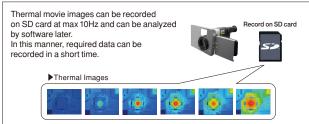


By stretching the sensitivity of the "Japanese-made" uncooled detector to the short-wavelength region, it is possible to eliminate the flame influence by using a 3.8µm passing-through-flame filter.

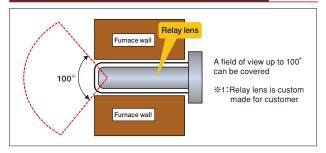
Measuring data in harsh environments with exactly and safety



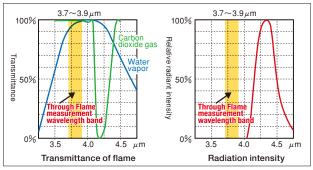




Combination with relay lens *1 insertable in the furnace is available



The principle of Through Flame IR image and feature points of R300BP-TF



When fuel gas (Hydrocarbon Gas) burns, the infrared energy is radiated from not only flame but also HsO and CO₂. For above condition, taking thermal image through flame by infrared thermal imaging camera (IR camera) is required following condition;

1.Select absorb-less band of wavelength by Gas (CO₂ and water vapor) that is generated when fuel gas burns.

2.Select wavelength band as far away from Flame Infrared Energy radiant intensity wave length as possible

wave length as possible.

3.Use Infrared Detector which has sensitivity with above both conditions.

Therefore, the suitable wavelength band for taking thermal image passing through

flame is 3.8 µm wavelength band.
Generally, this wavelength band is detected by cooled type infrared detector, however, this type IR camera is very expensive and its cooler requires maintenance at constant time usage.

Avio achieved success to stretching sensitivity to short-wavelength band by "Japanese-made" Uncooled type infrared detector. Herewith, we realized to reducing-cost and maintenance-free of R300BP-TF.

*Note: Depending on combustion gas kinds, R300BP-TF has possibility that cannot eliminate flame, and it influence to measuring result. We recommend to test by Demo-Unit before purchasing.

Primary Specifications and Features

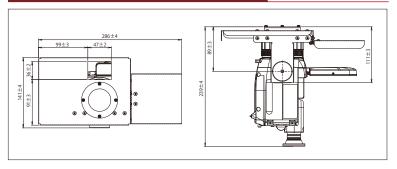
Infrared Detector	Item			R300BP-TF
Measuring Range				Uncooled Focal Plane Array (Microbolometer)
Sensitivity (NETD) 4°C at 400°C (with S/N improvement)	Basic Performance			3.7 to 3.9 μ m
Accuracy				400°C to 1500°C
Field of View 22° (H) × 17° (V) (with Standard Lens) Spatial Resolutio Spatial Resolutio Standard mode : 1.2 mrad Super Resolution mode: 0.8 mrad equivalent*3 Focal Distance 50cm to infinity (with Standard Lens) Auto Functions Auto Functions Auto Scale, Auto Focus, Full Auto Image Quality Improvement Point Temperature 10 Movable Points, Temperature search: MAX/MIN x 1 each, Delta T Temperature Display in Assigned Region Alarm function Alarm function Alarm function Alarm function Alarm Sisplay, Alarm Sound, Color Alarm, Alarm Recording, Alarm Signal Output Temperature Correction Function Storage Device Storage Device Still Image: JPEG with temperature data with Visible Image Interval Recording Max. 10fps in SD Card Voice Recording Max. 10fps in SD Card USB2.0, Video Output, Alarm Output, External Trigger Input 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) Operating temperature/ Humidity O"C to 40°C, 90%RH (non-condensing) Vibration / Shock 29.4m/sec² (3G), 294m/sec² (30G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation Poperation 22° (H) × 17° (V) (with Standard Lens) Auto Function Auto Function MAX. MIN and AVG in Box (for up to 5 Boxes) Alarm Signal Output Alarm Signal Output Emissivity, Environment/Background, NUC Storage Device Still Image: JPEG with temperature data with Visible Image Interval Recording Assert Conforms to SD Card Voice Recording O"C to 40°C, 90%RH (non-condensing) Vibration / Shock 29.4m/sec² (3G), 294m/sec² (30G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent 2hours (Typ.), 4hours with optional "Portable Power"				4°C at 400°C (with S/N improvement)
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Super Resolution mode : 0.8 mrad equivalent*3		Field of View		22° (H) \times 17 $^{\circ}$ (V) (with Standard Lens)
Auto Functions Auto Scale, Auto Focus, Full Auto Image Quality Improvement Averaging (with ghost rejection), Edge Enhancement 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 (for up to 5 Boxes) Line Profile Horizontal, Vertical, Horizontal & Vertical Alarm function Femperature Correction Femperature Correction Femissivity, Environment/Background, NUC Storage Device SD card, Conforms to SDHC Data Storage Interval Recording Movie Recording Max. 10fps in SD Card Voice Recording Movie Recording Interface USB2.0, Video Output, Alarm Output, External Trigger Input 3.5" LCD Monitor (with tilt adjustment), Color View Finder (with tilt adjustment) Color View Finder (with tilt adjustment) Storage temperature/ Humidity Vibration / Shock 29.4m/sec² (3G), 294m/sec² (3GG) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation Averaging (with flore, Edge Enhancement MAX/MIN x 1 each, Delta T MAX/MIN x 1 each, D		Spatial Resolutio		
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Data Storage Still Image: JPEG with temperature data with Visible Image Interval Recording Movie Recording Max. 10fps in SD Card Voice Recording Sosec Recording, replay per a Thermal image Interface USB2.0, Video Output, Alarm Output, External Trigger Input 3.5" LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) Color View Finder (with tilt adjustment) Operating temperature/ Humidity Thumidity O*C to 40*C, 90%RH (non-condensing) Storage temperature/ Humidity Vibration / Shock 29.4m/sec² (3G), 294m/sec² (3GG) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation Storage temperature/ Protection class IP54 equivalent 2hours (Typ.), 4hours with optional "Portable Power"		Temperature Correction Function		Emissivity, Environment/Background, NUC
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Interface USB2.0, Video Output, Alarm Output, External Trigger Input 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) O'C to 40°C, 90%RH (non-condensing) Storage temperature/ Humidity Vibration / Shock 29.4m/sec² (3G), 294m/sec² (30G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation USB2.0, Video Output, Alarm Output, External Trigger Input 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt and brightness adjustment).			Interval Recording	3 sec to 60 min interval, with Visible image
Interface USB2.0, Video Output, Alarm Output, External Trigger Input 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) O'C to 40°C, 90%RH (non-condensing) Storage temperature/ Humidity Vibration / Shock 29.4m/sec² (3G), 294m/sec² (3G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation USB2.0, Video Output, Alarm Output, External Trigger Input 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt and brightness adjustment) 0°C to 40°C, 90%RH (non-condensing) -40°C to 70°C, 90%RH (non-condensing) Vibration / Shock 29.4m/sec² (30G) Dust & Splash proof Protection class IP54 equivalent 2hours (Typ.), 4hours with optional "Portable Power"			Movie Recording	Max. 10fps in SD Card
Display 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) O'C to 40°C, 90%RH (non-condensing) Storage temperature/ Humidity Vibration / Shock 29.4m/sec² (3G), 294m/sec² (3G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent Battery Operation 3.5° LCD Monitor (with tilt and brightness adjustment), Color View Finder (with tilt adjustment) 0°C to 40°C, 90%RH (non-condensing) Humidity Circle 40°C to 70°C, 90%RH (non-condensing) Vibration / Shock 29.4m/sec² (3G), 294m/sec² (3G) EMC Conforms to CE regulations (Class A) Dust & Splash proof Protection class IP54 equivalent 2hours (Typ.), 4hours with optional "Portable Power"			Voice Recording	30sec Recording, replay per a Thermal image
Color View Finder (with tilt adjustment) The color View Finder (with tilt adjustment)		Interface		USB2.0, Video Output, Alarm Output, External Trigger Input
Humidity Storage temperature / Humidity Storage temperature / Humidity	Others	Display		
Battery Operation 2hours (Typ.), 4hours with optional "Portable Power"		Envi	Operating temperature/ Humidity	0°C to 40°C, 90%RH (non-condensing)
Battery Operation 2hours (Typ.), 4hours with optional "Portable Power"		ronmer	Storage temperature/ Humidity	-40°C to 70°C, 90%RH(non-condensing)
Battery Operation 2hours (Typ.), 4hours with optional "Portable Power"		ıt Res	Vibration / Shock	29.4m/sec ² (3G), 294m/sec ² (30G)
Battery Operation 2hours (Typ.), 4hours with optional "Portable Power"		sistan	EMC	Conforms to CE regulations (Class A)
4hours with optional "Portable Power"		1Ce	Dust & Splash proof	Protection class IP54 equivalent
AC Power 100V – 220V AC, 50/60Hz		Battery Operation		
		AC Power		100V – 220V AC, 50/60Hz
Dimensions Approx. H121mm × W105mm × D195mm (excluding Protection)		Dimensions		Approx. H121mm \times W105mm \times D195mm (excluding Protection)
Weight Approx. 1.5kg (including Battery Pack)		Weight		Approx. 1.5kg (including Battery Pack)
Standard Software InfReC Analyzer NS9500 Professional		Sta	ndard Software	InfReC Analyzer NS9500 Professional

- *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

 3 This increased resolution results from detecting characteristic within all frames acquired by the SR process and removing such effects as those caused by hand vibration.

Dimensions (Including Protection Shield)





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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

Distributor: