

# R300BP Series Specification Chart

	R300BP-TF 	R300BP-OF 	R300BP-TG 	R300BP-OG 	R300SR-H (reference) 
Application	Through Flame	Flame Figure	Through Glass	Glass Surface	General Purpose
IR Detector	UFPA (Vox) 320x240 pixels				
Spectral Range (Reference)	3.7 to 3.9 $\mu\text{m}$	4.25 to 4.75 $\mu\text{m}$	3.0 to 3.5 $\mu\text{m}$	5.2 to 7.4 $\mu\text{m}$	8 to 14 $\mu\text{m}$
Measuring Range (Reference)	400 to 1,500°C (1 Range)	600 to 2,000°C (1 Range)	500 to 1,000°C (1 Range)	400 to 1,500°C (1 Range)	-40 to 2,000°C (4 Ranges)
Sensitivity (NETD) (Reference)	4.0°C at 400°C (with S/N improvement)	1.5°C at 600°C (with S/N improvement)	1.0 °C at 500°C (with S/N improvement)	1.0°C at 400°C (with S/N improvement)	0.03°C at 30°C (with S/N improvement)
Accuracy (Reference) at Black Body	$\pm 4\%$ of Reading				$\pm 1^\circ\text{C}$ (R1) Operating Temperature : 10 to 40°C
Frame Rate	60Hz (8.5Hz Available as Special order)				60Hz/8.5Hz
F.O.V.	22° (H) x 17° (V) (with standard lens)				
Spatial Resolution	Standard mode: 1.2 mrad Super Resolution (SR mode) mode: 0.8 mrad equivalent				
Focus	50 cm to $\infty$				10cm to $\infty$
Optional Range	Spectral Range : 8 to 14 $\mu\text{m}$ Measuring Range: 0 to 500°C (1Range) Sensitivity : 0.3°C Accuracy : $\pm 2^\circ\text{C}$ or 2% of Reading, whichever is greater				

**Notice: The Optical Specifications (Spectral Range, Measuring Range etc) are modifiable by Avio to match customer's purpose and object's character.**