



THERMAL EXPERT™

Uncooled Infrared Camera Core

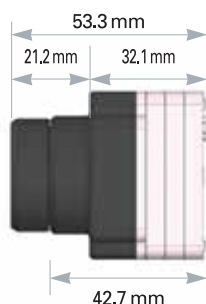
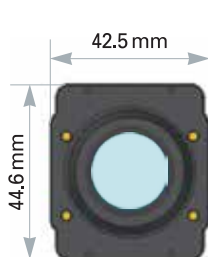
TE-EV1
TE-EQ1



TE-EV1
640 x 480, 17 μ m



TE-EQ1
384 x 288, 17 μ m



DRI Information

19mm		
	1.8 x 0.5m	2.3 x 2.3m
D	0.7km	1.7km
R	0.2km	0.4km
I	0.1km	0.2km

25mm		
	1.8 x 0.5m	2.3 x 2.3m
D	0.9km	2.3km
R	0.2km	0.6km
I	0.1km	0.3km

35mm		
	1.8 x 0.5m	2.3 x 2.3m
D	1.3km	3.2km
R	0.3km	0.5km
I	0.2km	0.4km

50mm		
	1.8 x 0.5m	2.3 x 2.3m
D	1.9km	4.5km
R	0.5km	1.1km
I	0.2km	0.6km

150mm		
	1.8 x 0.5m	2.3 x 2.3m
D	5.6km	13.5km
R	1.4km	3.4km
I	0.7km	1.7km

300mm		
	1.8 x 0.5m	2.3 x 2.3m
D	11.2km	27.1km
R	2.8km	6.8km
I	1.4km	3.4km

	TE-EQ1	TE-EV1
Detector Type	Micro - Bolometer (Uncooled)	
Array format, Pixel Pitch	384 x 288, 17 μ m	640 x 480, 17 μ m
NETD	$\leq 50\text{mK @ F/1.0, 300K}$	$\leq 50\text{mK, } \leq 35\text{mK @ F/1.0, 300K}$
Spectral Range	LWIR (8 μ m - 14 μ m)	
Power Supply	DC 5V	
Power Consumption	$< 1.8\text{W @ 30Hz}$	$< 2.0\text{W @ 30Hz}$
Video Output	Digital: Camera Link, USB, LVCMOS, GigE, IP Analog: NTSC, PAL	
Frame Rate	9Hz, 30Hz	
Control	USB2.0, RS-232	
Dimensions(WxHxD)	42.5 x 44.6 x 41.1 mm	
Weight	$< 110\text{g}$ (Without lens)	
Operating Temperature	-10°C to 65°C (Optional -40°C to 65°C)	
Storage Temperature	-40°C to 85°C	
Scene Range Temperature	-10°C to 150°C	