

THERMAL EXPERT™

Uncooled Infrared Camera Core

TE-EX2
TE-EV2
TE-EQ2



TE-EX2

1024 x 768, 12 μ m
15-100mm lens



TE-EV2

640 x 480, 12 μ m



TE-EQ2

384 x 288, 12 μ m

DRI Information

18mm			25mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
D	950m	2300m	D	1320m	3190m
R	240m	570m	R	330m	800m
I	120m	290m	I	160m	400m

50mm			100mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
D	2640m	6390m	D	5280m	12780m
R	660m	1600m	R	1320m	3190m
I	330m	800m	I	660m	1600m

150mm			300mm		
	1.8 x 0.5m	2.3 x 2.3m		1.8 x 0.5m	2.3 x 2.3m
D	7920m	19170m	D	15830m	38330m
R	1980m	4790m	R	3960m	9580m
I	990m	2400m	I	1980m	4790m

	TE-EQ2	TE-EV2	TE-EX2
Detector Type	Micro-Bolometer(Uncooled)		
Array format and Pitch	384x288, 12 μ m	640x480, 12 μ m	1024x768 12 μ m
Thermal Sensitivity(NETD)	$\leq 50\text{mK}$ / F#1.0, Room Temperature		
Spectral Range	8 to 14 μ m		
Power Supply	DC 5V	DC 5V	DC 5V
Power Consumption	< 1.6W@30Hz(Steady State)	< 2.0W@30Hz(Steady State)	< 2.5W@30Hz(Steady State)
Video Output Format	USB, Camera Link, LVCMOS, BT656, NTSC, PAL	USB, Camera Link, LVCMOS, BT656, HD-SDI, MIPI, NTSC, PAL	Camera Link, MIPI, BT1120, HD-SDI
Frame Rate	9Hz, 30Hz, 60Hz(Camera Link only)		9Hz, 30Hz
Control	RS-232(Option RS-485)		
Dimensions(WxHxD)	30x36x27 mm	30 x 30 x 38.6 mm	30 x 30 x 38.7 mm
Weight	< 50g(Without Lens)	< 52g (Without lens)	< 55g (Without lens)
Operating Temperature	-10 $^{\circ}\text{C}$ ~ 65 $^{\circ}\text{C}$ (Optional -40 $^{\circ}\text{C}$ ~ 65 $^{\circ}\text{C}$)		
Storage Temperature	-40 $^{\circ}\text{C}$ ~ 85 $^{\circ}\text{C}$		
Scene Range Temperature	-10 $^{\circ}\text{C}$ ~ 150 $^{\circ}\text{C}$		