



FLIR SC Series camera models comparison

Camera models	SC305 SC325	SC645 SC655	SC620 SC640 SC660	SC2500 NIR	SC5000 Series	SC7000 Series SC7000NIR / VNIR Series	SC7000 Orion	SC8400 Series SC6550 Series
Sensor Type	FPA, microbolometer	FPA, microbolometer	FPA, microbolometer	InGaAs (VisGaAs opt.)	InSb	InSb or MCT InGaAs or VisGaAs	InSb or MCT	InSb
Pixel Resolution Pitch	320 × 240 25 μm	640 × 480 17 μm	640 x 480	320x256 30 μm	320x256 or 640x512 30 or 15 μm	320x256 or 640x512 30, 15 or 16 μm	320x256 or 640x512 30 or 15 μm	1280 x 1024 or 640 x 512 15 μm
Spectral response	7.5 – 14 μm	7.5–14 μm	7.5 - 13 μm	0.9 - 1.7 μm (0.4 - 1.7 μm opt.)	2.5 - 5.1 μm	1.5 – 5.1 μm or 7.7 – 9.3 μm or 8.0 – 9.4 μm or 0.9 – 1.7 μm or 0.4 – 1.7 μm (depends on the model / sensor type)	1.5 – 5.1 or 7.7 – 11.5 μm (depends on the model / sensor type)	1.5 – 5.1 μm
Full Frame rate	9 Hz 60 Hz	25 Hz 50 Hz (100/200 Hz with windowing)	30 Hz (60/120 with windowing)	340 Hz (up to 15 kHz with windowing)	Up to 383 Hz (31.7 kHz with windowing) (depends on the model type)	Up to 380 Hz (up to 31.8 kHz with windowing) (depends on the model / sensor type)	Up to 380 Hz (up to 31.8 kHz with windowing) (depends on the model / sensor type)	100 Hz 125 Hz
Integration time	-	-	-	400 ns – 1s 1 μs steps	3 – 20000 μs 1 μs step	1 – 20000 μs 1 μs step	3 – 20000 μs 1 μs step	500 ns to Full Frame rate
NETD	< 50 mK	< 50 mK	< 40 mK, < 30 mK < 30 mK	-	< 20 mK	< 20 mK, < 25 mK, < 30 mK (depends on the model / sensor type)	< 20 mK, < 25 mK (depends on the model / sensor type)	< 25 mK
Filter Wheel	No	No	No	Removable 1” filter	4 slots for up to 2x1”	4 slots for 1” filters	2x4 slots for 1” filters, High speed	Yes
Digital Output	2x opto-isolated	2x opto-isolated	1394 Firewire, USB-Mini-B	GigE	GigE, Camera Link	GigE, Camera Link	GigE, Camera Link	GigE, Camera Link, DVI

