

	110K		307K
MODEL	110K-35	110K-25	307K-25
Detector material	A Si	A Si	A Si
Array size	384x288	384x288	640x480
TEC-Less operation	YES	YES	YES
Pixel count	110,592	110,592	307,200
Spectral response	8µm-12µm	8µm-12µm	8µm-12µm
Pixel Pitch	35µm	25µm	25µm
Response time	7mS	7mS	7mS
Sensitivity (Excluding optics)	≤70mK	≤50mK	≤50mK
Frame rate	50/60 FPS	50/60 FPS	50/60/240 ¹ FPS
Outputs composite, USB, LVDS	YES,YES,YES	YES,YES,YES	YES,YES,YES
Video Format	NTSC / PAL	NTSC / PAL	NTSC / PAL
Power consumption	2.5 Watts	2.5 Watts	3.7 Watts
Time to image	≤2 Seconds	≤2 Seconds	≤2 Seconds
Std. Operating temp range	-20 to + 50°C	-20 to + 50°C	-20 to + 50°C
Text overlay	YES	YES	NO
Digital Zoom	x2 x4 x8	x2 x4 x8	x2 x4 x8 x16
4 bit digital inputs	YES	YES	YES
Radiometric operation	NO	Optional	Optional
XTi Shutter-Less operation	Optional	Optional	NO
Remote command interface	RS232	RS232	RS232

CONFIGURATION	KS	KC	KC XTi	KS	KC	KC XTi	KS	KC
Weight (Excluding optics)	166g	105g	68g	166g	105g	68g	166g	105g
Length (mm)	57.6	46.6	39.1	57.6	46.6	39.1	57.6	46.6
Width (mm)	45	45	40	45	45	40	45	45
Height (mm)	52.5	52.5	44	52.5	52.5	44	52.5	52.5

LENSES	Weight	FOV	FOV	FOV
14.95mm f/1.3 Atherm	32g	48.4° x 37.3°	35.6 x 27.1	56.3° x 43.7°
14.25mm f/1.3 Atherm	70g	50.5 x 39.0	37.2 x 28.4	58.6 x 45.7
25mm f/1.0 Manual	250g	30.1 x 22.8	21.7 x 16.4	35.5 x 27.0
32mm f/1.0 Manual	204g	23.7 x 17.9	17.1 x 12.8	28.1x 21.2
35mm f1/4 Athermal	96g	21.7 x 16.4	15.6 x 11.7	25.8 x 19.5
50mm f/1.0 Manual	372g	15.3 x 11.5	11.0 x 8.2	18.2 x 13.7
50mm f/1.0 Motorised	850g	15.3 x 11.5	11.0 x 8.2	18.2 x 13.7
75mm f/1.0 Motorised	1,300g	10.2 x 7.7	7.3 x 5.5	12.2 x 9.1
75mm f1.0 Light* Mot.	395g	10.2 x 7.7	7.3 x 5.5	12.2 x 9.1
150mm f/1.0 motorised	4,400g	5.1 x 3.8	3.7 x 2.7	6.1 x 4.6
210mm f/1.4 motorised	4,400g	3.7 x 2.7	2.6 x 2.0	4.4 x 3.3
60/180mm motorised Dual FOV	6,600g	(60) 12.8 x 9.6 (180) 4.3 x 3.2	(60) 9.1 x 6.9 (180) 3.1 x 2.3	(60) 15.2 x 11.4 (180) 5.1 x 3.8

NOTES

KS = Waterproof ruggedised unit for use in hostile environments. Supplied with Lemo connector and break-out cable.
 KC = Bare core, no protective housing, uses OEM interface connectivity.
 XTi = Shutterless technology for low weight, high shock environments (NTSC or PAL to be specified at time of ordering).
 Manual and Athermal lenses can be swapped, Motorised focus units can only be swapped with other motorised focus lenses.
 * Lightweight lens weight includes unique core incorporating focus drive mechanism.

¹ 240 FPS output as 640 x 120 window.

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