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Defence & Security Products Division

Mini TIU3 Thermal Surveillance Camera

The ultimate in day and night CCTV detection, recognition and identification.
High Definition 640 x 480 25Hz and Standard Definition 384 x 288 25Hz.
Thermal surveillance video in all weather environments.



- Germanium window as standard
- Totally light independent
- Detection range to 5.5 km
- 25Hz refresh rate as standard
- Thermal band 8-14µm
- Video Motion Detection compatible
- All weather IP67 sealed units
- Rugged epoxy painted aluminium housing



Lens Options and Detection Distances

	Human			Vehicle		
	I	R	D	I	R	D
High Definition HD 640 x 480						
*18mm H-FOV 34.8°	220	367	660	550	917	1650
*25mm H-FOV 25.1°	306	509	917	764	1273	2292
*35mm H-FOV 17.9°	428	713	1283	1069	1782	3208
*45mm H-FOV 13.7°	550	917	1650	1375	2292	4125
50mm H-FOV 12.4°	611	1019	1833	1528	2546	4583
75mm H-FOV 8.3°	917	1528	2750	2292	3819	6875
100mm H-FOV 6.2°	1222	2037	3667	3056	5093	9167
150mm H-FOV 4.2°	1833	3056	5500	4583	7639	13750
Standard Definition SD 384 x 288						
*15mm H-FOV 35°	127	192	381	318	529	953
*35mm H-FOV 15.5°	296	449	889	741	1235	2223
*45mm H-FOV 12°	381	577	1143	953	1587	2858
50mm H-FOV 11°	423	641	1270	1058	1764	3175
75mm H-FOV 7.3°	635	962	1905	1588	2646	4763
100mm H-FOV 5.5°	847	1283	2540	2117	3528	6350
150mm H-FOV 3.7°	1270	1924	3810	3175	5292	9525

Key: I = Identification, R = Recognition, D = Detection. All distances in metres. Lenses marked * are manual focus, others are motorised focus.



Technical Specifications

Mini TIU3

Operating temperature -30°C to +50°C
 Polarity control black/white hot
 Automatic gain
 12v DC input
 PAL composite video output
 Environmentally protected to IP67 Including Germanium protective window.
 Zoom. continuous electronic zoom to 4x 640x480, electronic 2x 384x288.
 Single Milspec socket for video out/power in and camera control functions

Mini TIU3 HD High Definition

Pitch 17μ
 Pixels 640x480
 Detector AmSi microbolometer
 Spectral band 7-14μm
 NETD < 45 mK @ 20°C ambient and 30°C scene temperature
 Refresh rate 25Hz

Mini TIU3 SD Standard Definition

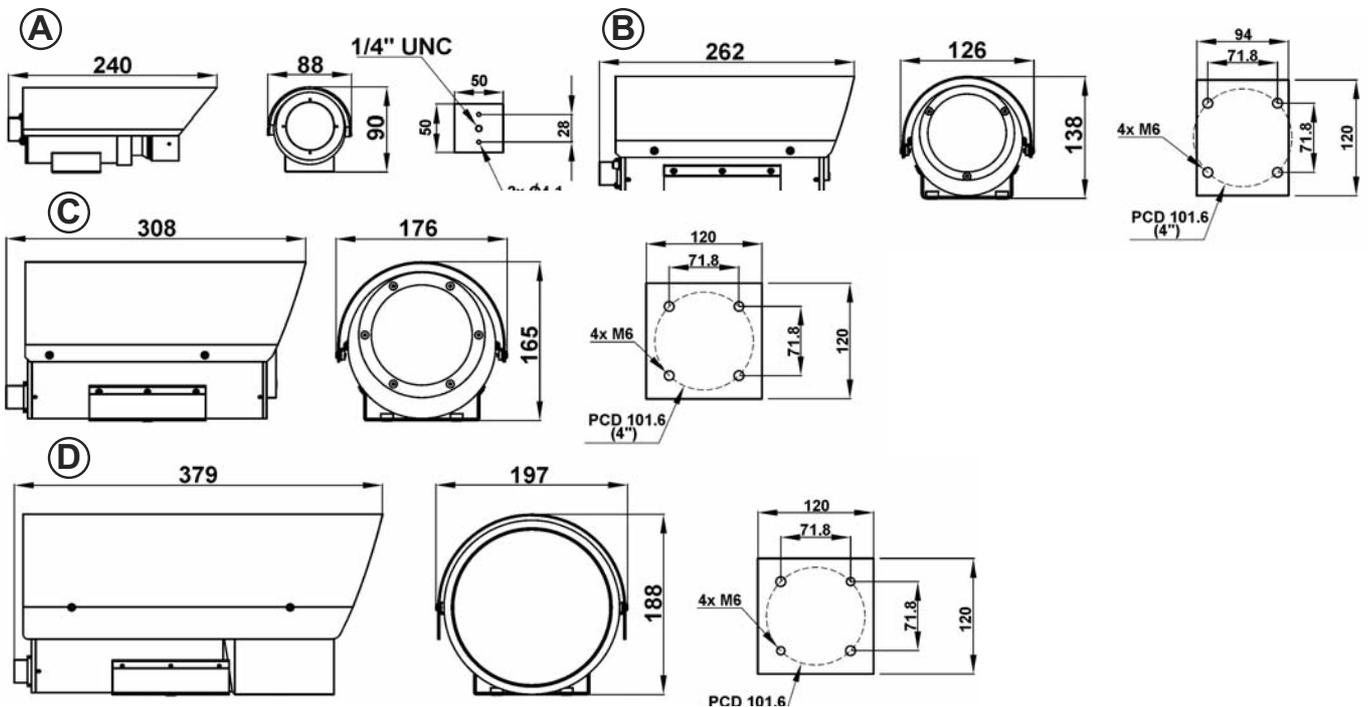
Pitch 25μ
 Pixels 384x288
 Detector AmSi microbolometer
 Spectral band 7-14μm
 NETD < 45 mK @ 20°C ambient and 30°C scene temperature
 Refresh rate 25Hz

Dimensions & Weight

Part Number	Model Type	Housing/Mount	Weight(g)
Mini TIU3 High Definition 640 x 480 Thermal Imaging Camera			
567-018HD	18mm manual focus lens external use HD 640 x 480 34.8° H-FOV	A	840
567-025HD	25mm manual focus lens external use HD 640 x 480 25.1° H-FOV	A	811
567-035HD	35mm manual focus lens external use HD 640 x 480 17.9° H-FOV	A	862
567-045HD	45mm manual focus lens external use HD 640 x 480 13.7° H-FOV	A	924
567-050HD	50mm motorised lens external use HD 640 x 480 12.4° H-FOV	B	2317
567-075HD	75mm motorised lens external use HD 640 x 480 8.3° H-FOV	B	2365
567-100HD	100mm motorised lens external use HD 640 x 480 6.2° H-FOV	C	246
567-150HD	150mm motorised lens external use HD 640 x 480 4.2° H-FOV	D	5464

Mini TIU3 Standard Definition 384 x 288 Thermal Imaging Camera

567-015SD	15mm manual focus lens external use 384 x 288 35° H-FOV	A	835
567-035SD	35mm manual focus lens external use 384 x 288 15.5° H-FOV	A	862
567-045SD	45mm manual focus lens external use 384 x 288 12° H-FOV	A	924
567-050SD	50mm motorised lens external use 384 x 288 11° H-FOV	B	2317
567-075SD	75mm motorised lens external use 384 x 288 7.3° H-FOV	B	2365
567-100SD	100mm motorised lens external use 384 x 288 5.5° H-FOV	C	2464
567-150SD	150mm motorised lens external use 384 x 288 3.7° H-FOV	D	5464



Ordering Information (25Hz version. For 9Hz version add /9 to part number.)

Part No.	Model Type
HIGH DEFINITION 640 X 480	
567-018HDC	Thermal Imaging Camera Mini TIU3 18mm lens HD 640 x 480
567-025HDC	Thermal Imaging Camera Mini TIU3 25mm lens HD 640 x 480
567-035HDC	Thermal Imaging Camera Mini TIU3 35mm lens HD 640 x 480
567-045HDC	Thermal Imaging Camera Mini TIU3 45mm lens HD 640 x 480
567-050HDC	Thermal Imaging Camera Mini TIU3 motorised 50mm lens HD 640 x 480.
567-075HDC	Thermal Imaging Camera Mini TIU3 motorised 75mm lens HD 640 x 480
567-100HDC	Thermal Imaging Camera Mini TIU3 motorised 100mm lens HD 640 x 480
567-150HDC	Thermal Imaging Camera Mini TIU3 motorised 150mm lens HD 640 x 480
STANDARD DEFINITION 384 x 288	
567-015SD	Thermal Imaging Camera Mini TIU3 15mm lens SD 384 x 288
567-035SD	Thermal Imaging Camera Mini TIU3 35mm lens SD 384 x 288
567-045SD	Thermal Imaging Camera Mini TIU3 45mm lens SD 384 x 288
567-050SD	Thermal Imaging Camera Mini TIU3 motorised 50mm lens SD 384 x 288
567-075SD	Thermal Imaging Camera Mini TIU3 motorised 75mm lens SD 384 x 288
567-100SD	Thermal Imaging Camera Mini TIU3 motorised 100mm lens SD 384 x 288
567-150SD	Thermal Imaging Camera Mini TIU3 motorised 150mm lens SD 384 x 288

Accessories

567-204	Mini TIU3 control box complete with 3 metre cable, (longer available up to 25m)
820800-02B	Electronic Image Stabilisation Unit



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All goods are supplied under our standard conditions of trade.

We reserve the right to amend design and specifications without prior notification

Visit our website on www.pyser-sgi.com for further information on the complete range of products available from Pyser-SGI Limited.



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01/02/12E & OE