



Dual Visible/Thermal Systems

Dual integrated sensor systems offer the best of both worlds for day/night, real-time surveillance. Employing 24/7, clear and accurate observation through difficult environmental challenges significantly enhances detection and appropriate response to potential threats. By integrating various sensors into your surveillance system increases the level of intelligence available to you.

- Cost effective, easy integration
- Detection in obscured environments
- 365/24/7 surveillance in challenging environments
- Scalable to augment existing systems
- Networked IP Control
- Offers 32 programmable preset locations
- Re-programmable tours to accommodate specific surveillance requirements
- Extremely ruggedized systems built to withstand extreme environments

Key Considerations When Building an Integrated Sensor System:

- Potential threats
- Asset protection objectives
- Environmental and terrain challenges
- Detection range



SPECIFICATIONS

System Range Performance

Categories	Mile 1	Mile 2	Mile 3	Mile 4	Mile 5	Mile 6	Mile 7	Mile 8	Mile 9	Mile 10
Short	.35	0.67	2.14							
Medium	0.43	1.20			5.00					
Long	1.20	2.00					8.00			
Very Long	1.45				5.00					10.00
Categories	1.60 km	3.21 km	4.82 km	6.43 km	8.04 km	9.65 km	11.26 km	12.87 km	14.48 km	16.09 km

Identification

Recognition

Detection

Integrated Dual Visible/Thermal Systems – Visible Sensor

Dual Visible /Thermal Vision System with Single Field of View (SFOV) LWIR Thermal Camera	Visible Range	Camera (Visible)	Lens	Focus	HFOV		F/#		min lux (F/1.2)	
					WFOV	NFOV	WFOV	NFOV		
PVTS-9010-9L100-MWS	Short	Sony 980S 1/4" / 768x494	Integral 3.5 - 91mm	Auto	42.2	1.6	1.6	3.8	2	—
PVTS-9020-9L100-MWS	Short	Sony 1020 1/4" / 768x494	Integral 3.4 - 122.4mm	Auto	57.8	1.7	1.6	4.5	1.4	—
PVTS-90250-9L100-MWS	Short	Hitachi KP-D5010 1/2" / 768x494	Integrated Kowa 10 - 250mm F/1.4 - 360	Motor Remote	35.3	1.5	1.5	360	1.4	—
Dual Visible /Thermal Vision System with Dual Field of View (DFOV) MWIR Thermal Camera										
PVTS-90375-9M250-MWS	Medium	1/2" / 768x494	Kowa 15 - 375mm F/2.3 - 360	Motor Remote	23.2	0.99	2.3	360	0.03	0.004
PVTS-90750-9M250-MWS	Long	1/2" / 768x494	Kowa 30 - 750mm F/4.6 - 720	Motor Remote	11.8	0.5	4.6	720	0.03	0.004
PVTS-90750-9M500-MWS	Long	1/2" / 768x494	Kowa 30 - 750mm F/4.6 - 720	Motor Remote	11.8	0.5	4.6	720	0.03	0.004
PVTS-91500-9M500-MWS	Very Long	1/2" / 768x494	Fujinon 12.5 - 1500mm F/3.8 - 6000	Motor Remote	14.6	0.25	3.8	6000	0.03	0.004
PVTS-91500-9M750-MWS	Very Long	1/2" / 768x494	Fujinon 12.5 - 1500mm F/3.8 - 6000	Motor Remote	14.6	0.25	3.8	6000	0.03	0.004
Dual Visible /Thermal Vision System with Continuous Zoom (CZ) MWIR Thermal Camera										
PVTS-90750-9M490-MWS	Long	1/2" / 768x494	Kowa 30 - 750mm F/4.6 - 720	Motor Remote	11.8	0.5	4.6	720	0.03	0.004
PVTS-91500-9M735-MWS	Very Long	1/2" / 768x494	Fujinon 12.5 - 1500mm F/3.8 - 6000	Motor Remote	14.6	0.25	3.8	6000	0.03	0.004
PVTS-91500-9M11X-MWS	Very Long	1/2" / 768x494	Fujinon 12.5 - 1500mm F/3.8 - 6000	Motor Remote	14.6	0.25	3.8	6000	0.03	0.004

Integrated Dual Visible/Thermal Systems – Thermal Sensor

Thermal Range	Camera Thermal: Microbolometer Un-Cooled (LWIR / 7.5 - 13.5)	Focus	HFOV		NEt	Pan Speed/ Tilt Speed
			WFOV	NFOV		
Short	SR-606; 640x480, 17um, 100mm	Fixed	N/A	6.2	50 mK @ f/1.0	.005 - 50°/sec. / .005 - 12°/sec.
Short	SR-606; 640x480, 17um, 100mm	Fixed	N/A	6.2	50 mK @ f/1.0	.005 - 50°/sec. / .005 - 12°/sec.
Short	640x480, 15um, 50 / 250mm DFOV	Motorized Remote	11	2.2	75 mK @ f/1.0	.005 - 50°/sec. / .005 - 12°/sec.
Camera Thermal: InSb Cooled (MWIR / 3.4 - 5um) DFOV						
7 (11, 3)	640x480, 15um, 50 / 250mm DFOV	Motorized Remote	11	2.2	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Long	640x480, 15um, 50 / 250mm DFOV	Motorized Remote	5.5	2.2	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Long	640x480, 15um, 100 / 500mm DFOV	Motorized Remote	5.5	1.1	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Long	640x480, 15um, 100 / 500mm DFOV	Motorized Remote	5.5	1.1	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Very Long	640x480, 15um, 100 / 750mm DFOV	Motorized Remote	3.6	0.7	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Camera Thermal: InSb Cooled (MWIR) Continuous Zoom						
Very Long	640x480, 15um, 39 - 490mm CZ	Motorized Remote	14.1	1.1	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Very Long	640x480, 15um, 59 - 735mm CZ	Motorized Remote	9.4	0.75	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.
Very Long	640x480, 15um, 88 - 1100mm CZ	Motorized Remote	6.3	0.5	75 mK @ f/1.0	.005 - 25°/sec. / .005 - 8°/sec.

Systems features:

- 24VDC or 48VDC
- Protocols: Moog QuickSet and PelcoD
- IP67
- Communication: RS232/422/485, IP Ethernet
- 6ft test cables included
- Test software included
- JAVA GUI available
- Controllers and Tripods available
- SIU available
 - Power supply,
 - Video server (H.264)
 - Tracker, stabilization (gyro and/or video)

Contact your Sales Representative for additional configurations, accessories and options available.



3650 Woodhead Drive, Northbrook, IL 60062-1895 USA
 +1.847.498.0700 Fax: +1.847.498.1258
 www.quickset.com