

DVS-8815M Thermal Imaging Camera



Purpose

DVS-8815M is intended for round-the-clock video surveillance in thermal range of big open spaces, offshore zones, remote areas, enforces fire control in complete darkness and in different environmental conditions.

It is a high performance uncooled camera incorporated on microbolometer. DVS-8815M detects targets by sensing the temperature contrast between an object moving through the detection pattern and the background environment.

Distinctive features:

- adaptive system of auto brightness adjustment for increased detection properties, better quality image for operator and automatic detection systems;
- uncooled detector with high sensitivity provides superior clear images;

Recommended application height varies from 8 to 30 meters and most efficient with DVS-8081 long-range camera on DVS-881 pan-and-tilt unit.

It is prohibited to point DVS-8815M to the sun. Direct sunlight can damage the camera.

DVS-8815M is included in the scope of supply of “Centaur” Standalone mobile video surveillance and thermal imaging system.

Technical specification

Parameter	Value
Image sensor	Microbolometer
Spectral range, μm	7-14
Array size/format	384x288
Frame rate, Hz	25
Pixel size, μm	25
Video output	Composite, PAL
Image sensor lifetime, h	25000
Time of continuous operation, not less, h	2900
Activation time, not more, min	5
Remote control	13,7x10,3
Image sensor	RS-232
Mode control	Video Polarity, NUC
DC voltage, V	from 9 to 28
Power consumption, W	3,5
Lens	Motorized
Min focal length, m	1
Min viewing distance, m	50
Focal length, mm	150F1
Threshold temperature change sensitivity, $^{\circ}\text{C}$	0,1
Color deviation, $^{\circ}\text{C}$	± 1
Расстояние обнаружения цели типа, до, м	
- «автомобиль»	6900
- «человека»	2700
Vehicle detection range, m	4800
Human detection range, m	1500
Acceptable dead pixels, up to %	1
Dimensions, up to, mm	480x210x202
Weight, not more, kg	10
Operating temperatures, $^{\circ}\text{C}$	from -40 to +50
Ingress protection	IP65

Connection DVS-8815M

DVS-8815M thermal camera connection to DVS-881 pan-and-tilt unit is made by a special cable to the backside socket.



Socket for thermal camera connection

Contactor pin assignment:



№	Purpose
1	Video
2	Video general
3	General power
5	Power «+12V»
18	General RS-232
19	Rx RS-232
20	Tx RS-232

Pins 4, 6-17 are not used