

## SDP-8610T Thermal Imaging IP-Camera



### Purpose

SDP-8610T thermal imaging IP-camera (hereinafter referred to as the thermal imaging camera) is used to arrange round-the-clock video surveillance in thermal range of large open spaces in a wide range of weather conditions.

Structurally, the thermal imaging IP-camera is implemented in a metal sealed body, inside of which there is a microbolometric detector equipped with a motorized lens with variable focal length.

The thermal imaging camera detector detects the surface temperature drop of objects relative to the background environment.

### The thermal imaging IP-camera features:

- an adaptive system for automatic adjustment of the image brightness and contrast, which allows for increasing the detecting properties and improving the image quality for the operator and automatic detection systems;
- use of an uncooled high-sensitivity detector provides for a clear image.
- the use of a motorized lens with variable focal length allows for changing the viewing angle and focusing the image in manual and automatic modes.

### Scope of Application

SDP-8610T thermal imaging IP-camera is used to arrange round-the-clock video surveillance in thermal range of large open spaces, offshore zones, long-distance facilities, and the State borders, as well as to enforce fire control in daytime and at night.

### Specifications

Parameter	Value
Matrix - detector	Uncooled microbolometer
Spectral range, $\mu\text{m}$	8-14
Video image resolution	640x480
Frames per second, Hz	25
Pixel size, $\mu\text{m}$	25
Compression standard	H.264, MPEG-4, MJPEG
Matrix life, h	25000
Continuous operation time, min., h	2900

Parameter	Value
Restoring time of operating mode, max., s	5
Field-of-vision, °	6.2 / 24.6
Digital zoom	up to 8x
Management interface	10BaseT/100BaseTX Ethernet (RJ-45)
Mode control	Palette (black&white, inverted black&white), NUC
DC power voltage, V	12
Current consumption, max., A	1.3
Optics	Motorized
Variable focal length, mm	25-100
Focusing range	from 3 m to infinity
Threshold temperature change sensitivity, °C	0.1
Deviation of color shades from actual values, °C	±1
Acceptable number of dead pixels, up to, %	1
Overall dimensions, max., mm	420x194x184
Weight, max., kg	10
Operating temperature range, °C	-40 to +50
Ingress protection	IP65

### Connection of SDP-8610T Thermal Imaging IP-Camera

SDP-8410T thermal imaging IP-camera is connected to SDP-883 pan/tilt unit by special cable to the connector located on the rear body wall.

Connector contact assignment:

Cont. No.	Wire color	Purpose
1	White-orange	"Rx +"
2	Orange	"Rx-"
3	GND	GND
5	"+12V"	"+12V"
19	White-green	"Tx+"
20	Green	"Tx-"

Contacts 4, 6-18 – not used.

The following data shall be used for authorization:

login: root

password: pass

IP-address: 172.16.16.20

Never point IP-camera lens to the sun. Direct sunlight can damage IP-camera detector.