

Infrared illuminator
IR-1 ZOOM

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Operation manual

v2.1 april 2015

before you get started read the instruction carefully
and make sure that you understand everything



BEFORE YOU START



Make sure your video camera is suitable for infrared illuminator.

To work with an infrared illuminator suitable black-and-white video cameras and color video cameras with "day/night" feature, in which the corrective filter for cutting off infrared radiation, automatically moves away from the matrix of the camera when working in night mode.

To avoid loss of sharpness (focus) of the image in night mode when using infrared light, the camera must be equipped with a lens with IR correction (IR marking on the body or in the designation of the lens).

In operation the case of the illuminator may be heated. This is normal and does not affect the lifetime of the illuminator and which is not by any malfunction or defect.

GENERAL INFORMATION

Thank you for purchasing of products Microlight!

Infrared LED illuminators IR-1 ZOOM intended for use in video surveillance systems for lighting objects in low light conditions, including total darkness.

Deciphering the model name illuminator:

IR-1-XXX XXX ST3M FS XXX



Icons used in this manual:

 attention! important information!

 risk of electric shock

 damage to the eyes!

 additional information

COMPLIANCE WITH STANDARDS OF SAFETY AND ELECTROMAGNETIC COMPATIBILITY

Infrared LED illuminator IR-1 ZOOM meets the requirements of the Eurasian Customs Union TR CU 020/2011 «Electromagnetic compatibility of technical means» and TR CU 004/2011 «On safety of low voltage equipment», as well as the requirements EMC Directive 2004/108/ EC EN55015:2009, EN61547:2009, EN61000-3-2:2006+A1:2009+A2:2009, EN61000-3-3:2009, EN61000-4-2:2009, EN61000-4-3:2008, EN61000-4-4:2012, EN61000-4-5:2007, EN61000-4-6:2009, EN61000-4-11:2005.

SAFETY ENGINEERING



If the LED illuminator is out of order, it cannot be repaired and try to recover! Unauthorized disassembly of the illuminator and technical intervention leads to a denial of warranty service.



Do not disassemble to avoid accidents! LED illuminators are strictly prohibited to disassemble



Invisible radiation of infrared LEDs! To prevent eye injuries, do not look directly at the switched-on illuminator.



Installation and connection of the illuminator should produce an expert in the field of electrical engineering works.

Protect the illuminator from impacts and vibrations.

TECHNICAL SPECIFICATION

The radiation wavelength, nm	850
The angle of radiation, °	adjustable in the range 2...100
Distance of illumination, m	18...400
Power consumption, W	4.0 max
Supply voltage, V	12...24 AC/DC (optional PoE)
Weight, kg	0.74
Dimensions (WxHxD), mm	72x73.5x185
Operating temperature, °C	-40...+50
Ingress Protection	IP66

the angle of radiation, °	2	5	9	17	25	40	50	65	90	100
distance of illumination, m	400	120	80	50	40	30	25	22	20	18
the spot size at a distance, m	12	9	11	13	16	20	20	35	35	40

 Illumination distance is shown for B/W camera without IR correction, 1/3-inch CCD, sensitivity not less than 1.5×10^{-5} W/m² for 0.8...1 μm of IR range (equivalent for 0.01 lux), F number 1.4.

LIGHT SENSOR



Built-in light sensor automatically turns on the illuminator when the light intensity drops to less than 3 Lux. To avoid tripping illuminator with occasional short-term increase in ambient light, such as headlights of a passing car, provided the time interval delay turn off the illuminator, equal to 25...35 sec.

INSTALLATION AND CONNECTION

Illuminator can be installed outdoors and indoors. When installing, ensure free air flow past casing to cool the illuminator.

The installation of illuminator should be made in the following order:


1. Assemble the bracket as shown in figure.
2. Install the illuminator on the bracket, pre-slightly tighten the bracket screws.
3. Mount the bracket on the wall.
4. Plug the illuminator to a low voltage power supply 12 ... 24 V AC or DC.

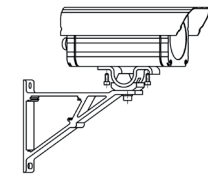
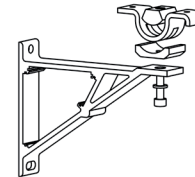
-  The polarity need not be obeyed.
-  When using the illuminator with PoE to connect the plug RJ-45 with PoE injector or switch.
- 5. Make sure that the illuminator works.

 Invisible radiation infrared LEDs. Do not look at the illuminator directly.

INSTALLATION AND CONNECTION

6. Adjust the angle of radiation illuminator, for this:
 - remove the screw plug on the back of the case illuminator;
 - rotating the adjusting screw to achieve the desired angle of radiation: set screw plug in place.
7. Adjust the vertical position of the illuminator relative to the bracket and the angle of the illuminator in accordance with the requirements of the lighting of the object.
8. Tighten the bracket screws for final fixing the illuminator.

 If necessary disable the light sensor is enough to cover the sensor with opaque material.



RETENTION RULES

The Illuminator should be stored indoors in the absence of aggressive environment in the form of vapor and acids and alkalis. Ambient temperature from -50 °C to + 50 °C; relative humidity less than 95% at 25 °C.

WARRANTY

The Manufacturer guarantees the absence of manufacturing defects and malfunctions of Equipment.

The warranty period shall be counted from the date of purchase of Equipment and shall be 36 months.

During the warranty period, the Manufacturer will correct the defects in the Equipment through its repair or replacement for a similar, provided that the defect has arisen through the fault of the Manufacturer. Equipment offered to replace, can be both new and restored, but in any case, the Manufacturer guarantees that its characteristics are not worse than replaced Equipment.

Under no circumstances will the Manufacturer be liable for any damages, including loss of data, loss of profits or other incidental, consequential or indirect damages caused by incorrect installation, maintenance, operation or performance-related, failure or temporary Equipment malfunction.

Manufacturer assumes no liability under the guarantee in the case that produced the testing and/or analysis revealed that the alleged defect in the Equipment is missing or it has arisen as a result of incorrect installation or operation conditions, as well as any actions associated with attempts to make the Equipment perform functions that are not declared by the Manufacturer, as well as attempts to change the technical characteristics of Equipment.

Warranty does not include cleaning and preventive maintenance of the Equipment by and at the expense of the Manufacturer.

WARRANTY DOES NOT COVER:

The counterfeit devices, the offensive of force majeure (fire, natural disasters and others), failures due to violations of the rules of transportation, storage, operation, or improper installation, defects caused by repair or modification of the equipment by persons not authorized by the Manufacturer, on the illuminators with external defects (obvious mechanical damage, cracks, chips).