

Technical parameters

Model	IR-16
Wavelength, nm	850±20
Illumination range (see n. Product purpose), m	350
Viewing angle, $2\theta_{0,5}$ , °	4±0,4
Continuous current, A	0,45max
Input voltage, V	12±0,6
Operating temperature, °C	-30... +40
Dimensions, mm	210x180x120
Weight, kg	0,9
Protection Standard	IP55

Product purpose.

The IR-illuminator is designed for the covert illumination of the observed object in the conditions of insufficient illuminance. The distance of the illumination is indicated for the black and white videocamera without IR correction featured with the 1/3" matrix the sensitivity of which is no worse than  $1,5 \cdot 10^{-5}$  W/m<sup>2</sup> in the IR band of 0,8...1 μm (the equivalent of the videocamera with the sensitivity of 0,01 lx), the objective is F1.4. The illuminator can be installed either outdoors or indoors. During the installation it is necessary to provide free circulation of the ambient air round the case of the illuminator for cooling.

Set of delivery.

IR illuminator – 1 pc, bracket-1pc, bolt M6x16 - 2 pc, nut M6 -2 pc, stopper washer - 2 pc, packing – 1 pc, instruction manual – 1 pc.

The device design.

The IR-16 series illuminator contains an IR-radiator based on luminodiodes with the built in forming optics.

Certificate of acceptance.

ID number \_\_\_\_\_

The illuminator passed the engineering control test and is considered to be in operational condition.

ECD(Engineering Control Department) Stamp

\_\_\_\_\_

Date of the test \_\_\_\_\_

Trade organization \_\_\_\_\_  
(Place for stamp)

Date of sale \_\_\_\_\_

Signature of the buyer \_\_\_\_\_

Constructively the illuminator consists of the case, made of aluminum alloy. On the face side of the case the luminodiodes are installed, they are covered with the light filter made of special plastic. A bracket is supplied for the installation of the illuminator which is fixed to the case with the help of a bolt connection.

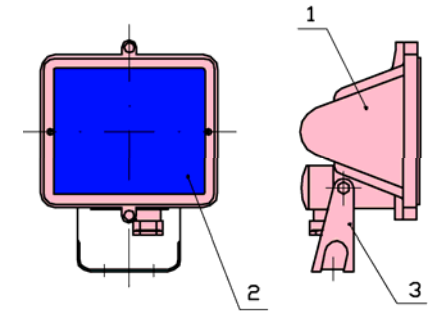
Safety measures.

This IR illuminator complies with EN60065:2001+Amd1:Audio, Video & similar electronic apparatus: Safety requirements and Maximum Permissible Exposure limits of IEC60825-1. This product conforms to EMC Directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC.



**Caution! Invisible LED radiation!** Do not view directly with optical instruments (magnifiers). CLASS 1M LED product.

**It is necessary to observe the polarity of the power supply connection: - (+) red, (-) black. It is forbidden to use the illuminator with the parameters exceeding the maximal permitted values.**



Picture 1. The IR-16 illuminator. Main view. 1 –case, 2 – light filter, 3 – bracket

Maintenance.

During the illuminator operation as it becomes dirty it is needed to clean the protective light filter and the case.

The case cleaning is done by means of dust elimination with the help of a scrub or a brush. When required water can be used.

The light filter cleaning is done by wet cotton cloth with the continuous change of the cloth contacting surface to avoid filter surface damage by abrasive material.



**Warning!**  
**Dissolvents and chemical reagents are never allowed for cleaning!**

Storage rules.

The illuminator should be stored in the closed space without corrosive medium in the form of vapour and acids and alkali mist. The ambient air temperature should be from -50°C to +50°C; the air relative humidity should not be above 95% at the temperature of 25°C.

Warranty.

The producer or the supplier guarantees the IR-16 series illuminator conformity to the technical requirements under condition that the user observes the storage and operation rules provided by the instruction manual. The warranty period is 36 months from the date of sale. The warranty validity expires in case of the user non-observance of the storage or operation rules, case integrity breach or voluntary repair, alteration, modernization etc.



INFRARED ILLUMINATOR  
IR-16

Instruction manual



Manufactured by MicroLight Co., Ltd.



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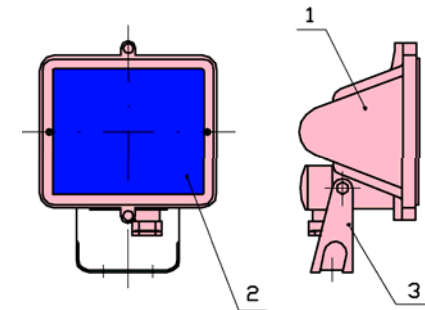
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