

# Installation for verification of photometers of laser therapeutic equipment УПЛТ-М



## CHARACTERISTICS OF INSTALLATION УПЛТ-М

- Optic unit;
- Universal clamp;
- Connecting cable;
- Diaphragm;
- Notebook;
- Oscilloscope;
- Kit of emission sources

The installation УПЛТ-М is **DESIGNED FOR** reproducing, storing and transmitting of the unit of the average power and density power of the continuous and pulse-modulated optic emission, calibration and verification of integrated and autonomous photometers for laser medical equipment and laser therapeutical, surgical and therapeutical equipment.

Verification of measuring instruments can be carried out according to GOST R 8.706-2010.

Range of measured values of average power, Wt	from $10^{-6}$ to 10
Range of measured values of power density, Wt/m <sup>2</sup>	from $10^{-1}$ to $10^6$
Range of wavelength of investigated emission, μm	от 0,45 to 1,1
Calibration wavelength, fixed in ranges, μm	0,6328; from 0,8 to 0,9
Limits of permissible relative measurement error, %:	
· average power at calibration wavelength	± 5,5
· average power in working spectral range:	
- (from 0,6 to 1,0) μm	± 6,5
- (from 0,45 to 1,1) μm	± 8,0
· relative power levels	± 4,0
Rise time of transient response of measuring converter channel, ns, not more than	15
Limit of measuring converter linearity (on the load of 50 Ом), V	3
Installation УПЛТ-М provides measurement of average power and power density of the continuous and pulse-modulated emission:	
· in space angle, stere, up to	2π
· at pulse repetition frequency, Hz, not less than	50
· at pulse duration, ns, not less than	50

\*Characteristics of installation УПЛТ -М can be specified by request of the customer.