

# Spectrophotometer “TKA-Spectr” (FAR)



**The complete set of the device Spectrophotometer “TKA-Spectrum” (FAR):**

- Spectrophotometer “TKA-Spectr” (FAR)
- Cosine corrector-attenuator
- NiMH rechargeable battery (Krona size, 6F22, 8.4 V)
- Battery charging adapter
- PC communication cable (USB Am-Bm)
- Flash drive with software
- Manual
- Passport
- Appliance bag
- Transport container

**Main technical data and characteristics of the device:**

Full irradiance measurement range (two measurement modes: with and without attenuator)	100 ÷ 600,000 $mW / m^2$ (calibration by type A source)
Expanded uncertainty limit for the irradiation channel, no more,%	10.0
Measurement mode	Continuous / Pause
Spectral range, nm	400 ÷ 790
Basic relative error of irradiance measurements (no more)	± 8.0%
Receiver	Polychromator, 128-pixel silicon solar cell array
Scan step , nm	3.33
Spectral line width (FWHM), nm	9.9
Integration time range (measurement), ms	16 ÷ 4096
Updating the data output depends on the irradiance level of the light source and takes up to 5 seconds.	

#### Electrical data of the device:

- Display: liquid crystal LCD – 2 lines of 16 characters.
- Protocol: The original open digital protocol.
- Power supply: NiMH rechargeable battery 6HR61 8.4 V , 170 ÷ 250 mAh.
- Charger: via AC adapter.

#### Mechanical data of the device:

- Ambient temperature: + 5 ... + 40 ° C
- Weight of the device with power supply: no more than 2.0 kg
- Dimensions:
  - indication and power supply unit: 165 (L) x85 (B) x35 (H) mm ;
  - optoelectronic unit (OEB): 240 (L) x72 (B) x65 (H) mm ;
  - mains charger adapter: 75 (L) x46 (B) x70 (H) mm .

On the bottom side of the SEU there is a threaded socket (1/4 ") for mounting on a tripod.

- [Operation manual "TKA-Spectr" \(FAR\) \(\\* .pdf\)](#)
- [Virtual COM Port Driver \(\\* .exe\)](#)
- [Installing USB driver \(\\* .pdf\)](#)
- [Spectrophotometer ver. 4.0.2 \(\\* .zip\)](#)