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 / m²* *(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)*