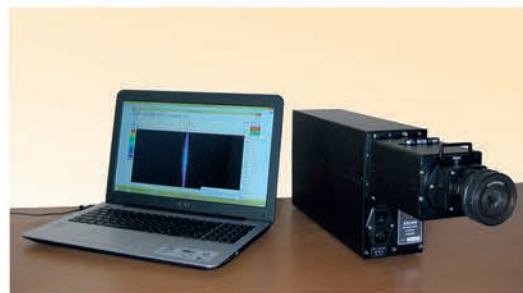


Measuring instrument of time characteristics of pulsed laser emission – Camera K016



IT IS DESIGNED FOR

measurements of time characteristics of pulsed laser emission in the range from 5 ps to 18 ns.

POSSIBLE FIELDS OF APPLICATION

physics of shock waves, laser physics, non-linear optics. ICC is designed for operation in laboratory environment at air ambient temperature (288÷308) K, relative humidity not more than 80% and atmospheric pressure (100±5) kPa.

Focus distance and aperture ratio of intake camera lens, mm; relative unit	80; 1/3,5
Range of spectral sensitivity of ICT, nm	≤ 400 ÷ ≥ 800
Photoelectric yield of ICT maximum for λ=532 nm, mA/Wt	≥20
Departure time into the mode, min: - of operating - of measuring the spatial-temporal intervals	≤1 ≤30
Overall dimensions (without the intake camera lens), mm	≤ 610x114x220
Macca ЭОК (without the intake camera lens), кг	≤7,5
Power supply voltage of ICC with frequency 50-60 Hz, V	85 ÷264
Power, consumed from the network, VA	≤25
Input resistance at connector of the start-up, kOhm	1±0,1
Required parameters of triggering pulse: polarity; amplitude, V; duration, ns; steepness, V/ns	posit.; ≥2,5 ÷ ≤50; ≥10; ≥2,5
Range of adjustment the trigger level, B	≤2,5 ÷ ≥20
Parameters of the outlet synchronizing pulse at the load of 50 Ohm: polarity; amplitude, V; duration, ns; buildup time, ns	posit. ; 4 ÷ 7; 200 ÷ 600; ≤3
Delay of outlet synchronizing pulse, ns, in regard to the input (at U _{startup} =10V, t _φ =1 ns and minimum startup level of ICC)	≤20
Startup maximum frequency of ICC, Hz: nominal; decreased	8 ÷14; 0,4 ÷ 0,6
Scale of image transfer from display/photocathode of ICT to CCD TC pixel/cm	1/ –
Recommended code of reinforcement of CCD TC	–
Spatial resolution on photocathode of ICT under static working conditions of ICC, p.l./mm	≥20