



### Features:

- driving of all types of cooled modules of SUPERLUM,
- simultaneous driving of two SLD modules,
- stabilization of SLD temperature at any value within range of +10°C to +40°C, with indication of the set temperature,
- stabilization of SLD direct current at any value from 0 mA to 400 mA with indication of the set current value. Higher current ranges are available on request,
- RS-232 interface,
- High level of SLD protection against overloading,
- Low noise.

### Accessories:

- Mounts for modules (DIL, BUT, TOW)
- Connecting cables
- External low pass filter

**Optional:** single-channel controllers upon request

### Stability and noise

All PILOT controllers allow excellent stability of SLD modules; typical short-term (15 min, 22±0.1°C ambient) and long-term (3 h, 22±0.5 °C) stability of SLD modules driven by PILOTs 500 ppm and 3000 ppm, correspondingly. No any excess noise to SLD intensity noise is added by PILOT-4 in frequency range 0.05-10 MHz; external LPF allows no excess noise starting 3 kHz frequency.

### Technical parameters (each channel)

Current source, constant current mode		SLD protection section	
SLD current range*	0...400 mA	SLD current limit range*	5...400 mA
SLD voltage, maximum	3 V	Set resolution**	0.1 mA
Set resolution **	0.1 mA	Accuracy (50-400mA)	1 mA
Accuracy (50-400mA)	0.5mA		
TEC controller section		PD monitor section	
Thermistor range	6.000...19.999 kOhm	PD monitor reverse voltage	5 V
Stabilization T range***	10-40°C	PD monitor current range	0...20 mA
Accuracy	0.1°C	Display resolution	0.001 mA
Maximum TEC current	1200 mA		
Maximum TEC voltage	5.0 V		

\* up to 500 mA upon request

\*\* corresponds to LCD resolution

\*\*\* it is considered that 10K3CG2 of BetaTherm Ltd. thermistors are used in SLD modules

### General Data

Supply voltage	110/220 V,
Cable connectors	9 pin D-SUB
Operating temperature	0...+40°C