

HVP14

High voltage power supply for bare image intensifier tubes



Fig. 1. Photo of HVP power supply

BASIC INFORMATION:

The HVP14 power supply is a special high voltage power supply optimized for use in systems for testing bare image intensifier tubes. It is built as set of four HV power modules: HVP-1 to power photocathode circuit, HVP-2 to power MCP circuit, HVP-3 to power screen circuit, and HVP-4 – an option for some Gen3 tubes when voltages higher than 6000 V are needed.

The HVP14 power supply differ significantly from typical laboratory high voltage power supplies. The HVP14 power modules can be connected into a cascade. Flexible grounding (any output socket of any power supply can be grounded) is possible, too. Next, the voltage regulation ranges are optimized for testing bare image intensifier tubes.

SPECIFICATIONS

Parameter	Value
Output voltage range	HVP-1: 20 to 1000 V - optimized for photocathode
	HVP-2: 30 to 3000 V - optimized for MCP
	HVP-3: 30 to 6000 V - optimized for screen
	HVP-4: 30 to 6500 V - a spare channel to combine with channel 3 when voltages higher than 6000 V are needed
Max output current	200 μ A \rightarrow HVP1,
	40 μ A \rightarrow HVP2
	40 μ A \rightarrow HVP3
	30 μ A \rightarrow HVP4
Type of regulation	manual
Ripple	<0.1 % pp
Temperature stability	<300ppm/K
Humidity	Up to 90% non-condensing
Working temperature	5°C to 40 °C
Storage temperature	5°C to 65°C

*specifications are subject to change without prior notice

OPTIONS

HVP14 power supply can be offered in special computerized version coded as HVP14C that enable remote control of this power supply using Ethernet interface. HVP14C can be used is customized stations for semi automatic station for testing and design optimization of bare image intensifier tubes.

CONTACT:

Tel: +48 604061817

Fax: +48 22 3987244

Email: info@inframet.com