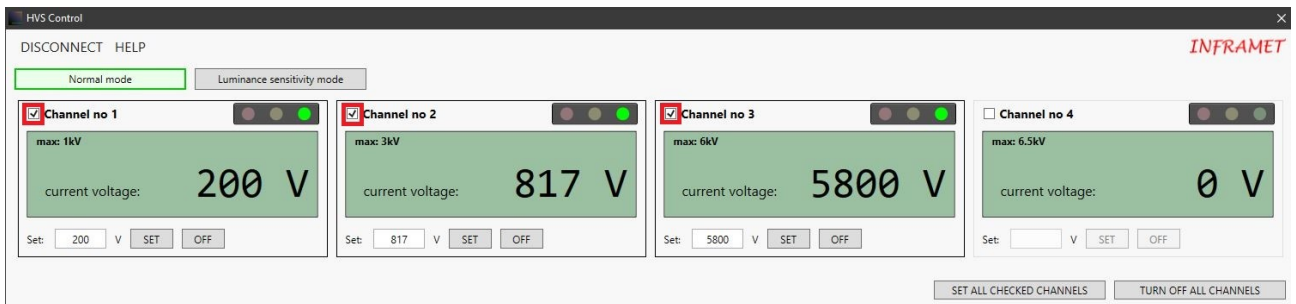
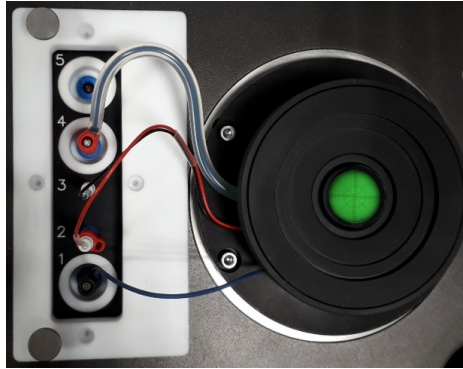


HVP14C

Computerized high voltage power supply



BASIC INFORMATION:

The HVP14C power supply is a special computerized high voltage power supply optimized for use in systems for testing bare image intensifier tubes. It is built as set of 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 HVP14C power supply differ significantly from typical laboratory high voltage power supplies. All channels are separated from each other and input power supply. Next, the voltage regulation ranges are optimized for testing bare image intensifier tubes. Finally, HVP14C can be controlled from a PC set using ethernet port.

HVP14C is optimized for use in semi automatic station for testing of bare image intensifier tubes. HVP14C power supply is especially useful for manufacturers of II tubes who want to automatically determine a set of optimal voltages for powering bare II tube in order to achieve best MTF function of such tube.

Technical specification of HVP14C:

Model	HVP14C power supply	
Type	Regulated DC/DC power supply	
Type of regulated	Electronics via ethernet port	
Input voltage	12V DC ($\pm 10\%$ of nominal value)	
Input current	0,5A max	
Rated power (max)	6W	
Number of channels	4 – all channels are separated from each other and input power supply	
Type of voltage isolation	between input power supply and HVP channels	Galvanic isolation – min 100kV
	between two neighboring channels	min 120kV

HVP14C

Computerized high voltage power supply

	between PC and HVP control section	Opto isolation – min 140kV		
Output voltage / current	Channel	Voltage	Resolution	Current
	1	10 – 1000V DC;	1 V	max 200 μ A
	2	20 – 3000V DC;	1 V	max 40 μ A
	3	40 – 6000V DC;	2 V	max 30 μ A
	4	40 – 6500V DC;	2 V	max 30 μ A
Ripple	< 0,1% pp			
Temperature stability	< 300 ppm/K			
Protection	Overload	105 – 110% rated output power Protective type: Hiccup mode, recovers automatically after fault condition is removed		
	Over Voltage	101 – 102% rated output voltage Protective type: continuous voltage control - software protection against Over Voltage		
	Over Temperature	Shut down o/p voltage, re-power on to recover		
Working temperature	+5°C to +40°C			
Storage temperature	+5°C to +65°C			
Working humidity	Up to 85% RH non-condensing			

*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