

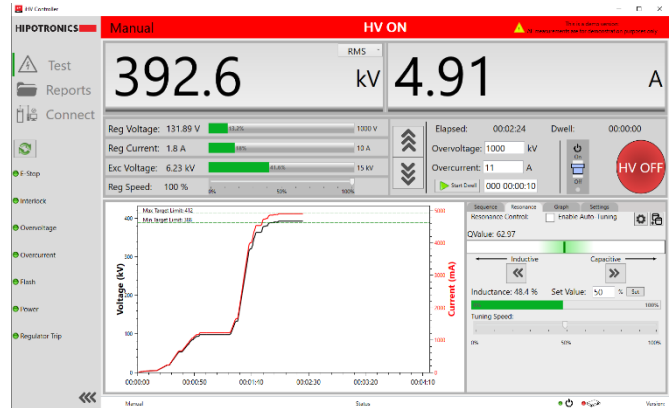
iHV

Intelligent Digital AC and DC Controller – MSR, TSR, UHVDC, AC Test Systems

The iHV is HIPOTRONICS' new state-of-the-art controller designed for AC resonant test systems, and ultra-high voltage DC systems. The iHV is included in our new test systems and available to upgrade existing systems to this modern control solution. The iHV software has a user-friendly interface designed to work in a wide-range of applications. The iHV's intuitive design and flexibility to set different test parameters allows the operator to easily and efficiently complete required tests.

The controller is operated through HIPOTRONICS' software installed on a customer supplied computer. Each iHV is equipped to support standard Ethernet or LC-type fiber optic connections. HIPOTRONICS can also provide a list of communication protocols if customers want to use their own custom control system.

The iHV controller assures accurate voltage and current measurements for users. It also has control and measuring capability for Q value, flash sensitivity, ripple and polarity reversal. The iHV's safety features include external interlock, and E-Stop to ensure safe high voltage operation.



FEATURES

- Rackmount or benchtop** design to meet each customer requirement
- Multiple measurements** including output voltage, current, and ripple
- Adjustable test parameters** such as target voltage, maximum current, ramp rate, and dwell time
- Record and view test results** by saving and exporting results csv, docx or PDF
- Meter and graph display** with zoom and pan capability, and tolerance bars
- Partial Discharge** measurement integration with 3rd party PD detector suppliers
- Auto tuning and polarity reversal** for fast and accurate testing

BENEFITS

- Simple to Use** with minimal amount of setup time and intuitive control software allows for simple testing
- Plug & Play** design with previous Windows based controllers
- Multi-functional** for use with AC or DC test systems.
- Efficient** – Saved presets and sequences for repeatable accurate HV testing
- User-Friendly** HIPOTRONICS control software
- Safe Operation** with interlock and emergency stop
- SIL 3 Compatible**

TECHNICAL SPECIFICATIONS

Voltage Measurement Uncertainty (iHV only)	≤0.5% (from 5-100% of full scale)	
Overall Measurement Uncertainty (iHV with Hipotronics divider)	≤1.5% (from 5-100% of full scale)	
Input	90-265VAC, 50/60Hz	
Dimensions (W x D x H)	19"(483mm) x 17"(425mm) x 6"H(134mm)	
Weight	15 lbs (6.8 kg)	
Safety Features	Emergency Stop	External Warning Light (optional)
	Visual Warning Indicators	Fiber Optic Cable (optional)
	External Interlock	Fiber Optic Estop (optional)
Display	iHV Software on Customer Supplied Computer	
Interfaces	Ethernet and Fiber Optic	
Output Data Format	CSV, docx., PDF	
Calibration Interval	1 year recommended	
Minimum & Recommended Computer Requirements:	Operating System:	Windows 10
	CPU:	Intel or AMD processor with 64-bit support Recommended: 2.6 GHz or Faster
	Hard Drive:	Program Size – 70 MB Recommended: 128 GB+ Solid-State Drive (SSD) with 50 GB free disk space
	Memory (RAM):	4 GB Minimum Recommended: 8 GB
	Monitor Resolution:	1280x800 Recommended: 1920x1080
	Ports:	Ethernet
ECCN: EAR99	HTS: 8537200040	

Important Notes:

- Onsite engineering service required for any purchase. FSE-ENGINEER will be quoted separately to include install, training and system calibration.
- Cables not included unless otherwise specified in quotation.
- Computer not supplied with iHV

	Electronic Components		High Voltage Components	
	Temperature	Humidity (r.h. non-condensing)	Temperature	Humidity (r.h. non-condensing)
Operation	-10°C ... +50°C	5 ... 95%	-10°C ... +50°C	5 ... 95%
Storage	-20°C ... +70°C	5 ... 95%	-20°C ... +70°C	5 ... 95%

SCOPE OF SUPPLY

- 6ft input power cord
- Interlock plug
- Digital copy of manual and iHV software
- Calibration certificate (as part of FSE-ENGINEER)

STANDARD OPTIONS

- DI-FO-IHV** – Fiber optic cables (30m)
- DI-FO-ESTOP-IHV** – Fiber optic estop
- HH-WARN-HV** – Warning light with magnetic base
- EXT-WARN-1** – One-year extended warranty