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V&IFullwaver Data Sheet

The I & V Fullwaver systems were specifically developed for precise full waveform time domain Induced Polarisation, Resistivity and SP measurements. Both systems are fully independent; incorporating their own power source, GPS module and digital memory for up to 8 hours continuous recording.

V & IFullWaver instruments (Courtesy of Iris Instruments., Orleans, France)

I Fullwaver: The I Fullwaver sits in series between the injection electrode and transmitter recording the AB injection current to within 3mA. Sampling at up to 100Hz the GPS PPS is used to synchronise an internal clock in order to accurately time stamps each record to within an absolute accuracy of 250us. The I Fullwaver can be used alongside the V Fullwaver for Elrec Induced polarisation receivers.

The V Fullwaver: The V Fullwaver is a dual channel Induced Polarisation, Resistivity and SP receiver. Continually recording at 10ms sample rate provides a full waveform record.

Applications;

- Mineral Exploration
- Environmental Monitoring
- Hydrology

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	31cm x 25cm x 15cm (each)	2.8kg (each)

Technical Specifications

I FullWaver:	

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Current range:	+/- 25 000mA
Current resolution:	0.4mA
Accuracy:	+/- 3 mA
Protection::	Up to 50A and 3000V
Sampling rate:	10ms (100Hz)
Time resolution:	250 us
Memory:	More than 2 860 000 samples. Up to 8 hours continuous recording.
Power supply:	Li-Ion rechargeable battery. Optional external 12V battery.
Operating temperature:	-20ºC to + 70ºC
V Fullwaver:	
Max Input Voltage:	15V
Protection:	1000V
Accuracy:	0.2%
Resolution:	10µV
Sampling rate:	10ms (100Hz)
Low pass filter cut off frequency:	10Hz
Upper frequency which can be resolved:	50Hz
Frequency resolution:	32uHz
Time resolution:	250us
Memory:	More than 2 860 000 samples. Up to 8 hours continuous recording.
Power supply:	Li-Ion rechargeable battery. Optional external 12V battery.
Operating temperature:	-20ºC to + 70ºC

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