

Key features:

- Selective measurements for magnetic induction (H) and electric fields with any form factor
- Interchangeable probes
- Frequency range

Selective Mode: 0Hz - 400 KHz

Broadband Mode: 100kHz - 40GHz

- Time domain analysis (oscilloscope mode with automatic and manual trigger)
- Frequency domain analysis and FFT spectral analysis in real time up to 65.536 samples
- Dynamic Range >100 dB without range changing
- Selectable indexes available on the meter:

WP10 – Weighted Peak (Icnirp 2010 Health Physics 99:818-836-2010)

IB50 (Time domain Analysis CEI EN 62233)

• Selectable indexes via software:

WP10 – Weighted Peak (Icnirp 2010 Health Physics 99:818-836-2010)

II98 (Icnirp 1998 Health Physics 74:494-522-1998)

IB50 (Time domain Analysis CEI EN 62233)

IRSS (Frequency domain Analysis CEI EN 62233)

- Calculation and display of RMS, IRMS, Max, Min, Instant, Fmax
- Display screen which indicates safety threshold limits according to current safety standards in the public or the professional environment
- GPS receiver and temperature sensor available on board
- Power supply: Li-ion battery with over24 hours of operation time
- Transflective backlit screen
- Fiber optic communication (up to 40mt)
- Firmware updating directly by user





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Description:

NHT 3D is a high performance handheld analyzer designed for measurement of electric and magnetic fields which are characterised by complex form factors in the frequency range DC÷400 kHz in selective mode, and 0÷40GHz in wide band mode.

Thanks to the interchangeability of the probes it is possible to configure the instrument for measurements in different environments and in full compliance with industry standards.

The Waves software provides a quick view of the main indexes and the trend of the field in the time and frequency domains through repeated acquisitions generating up to 65.536 samples. These acquisitions may be triggered manually or automatically.

The "Monitoring" operating mode function allows for the signals to be recorded to the non-volatile internal memory of the instrument from the probe. Thanks to this feature it is possible to download the data to a PC and extract the relevant information such as signal amplitude / frequency and indexes acquired during the monitoring.

This feature together with the instrument's battery autonomy allows the user to perform monitoring tasks for over 24hours.

Main Areas of Application:

- Energy
- Telecommunication (TLC)
- Medical
- Railway
- Automotive
- Military

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Main reference standards:

NHT 3D can be used with probes which conform to the following standards / directives:

- DIRECTIVE 2013/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 June 2013on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/EC
- CEI EN 50500 "Measurement procedures of magnetic field levels generated by electronic and electrical apparatus in the railway environment with respect to human exposure"
- CEI EN 62233 "Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure"
- CEI EN 62311 "Assessment of electronic and electrical equipment related to the restrictions for the electromagnetic fields (0 Hz 300 GHz)"



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Waves software:

The Waves software allows the user to analyse the recorded data in both time domain and frequency domain as well as providing the user with real time processing and post processing capabilities.

During the real-time processing the oscilloscope function captures the signal in automatic or manual mode using a special trigger. The signals displayed can then be controlled or managed by way of a pan / zoom control.

The measurements are more easily interpreted by the use of a marker function which simultaneously provides the value of the level and frequency / time.

The same concept applies in the frequency domain where the user can insert the various masks of the curves required by the safety standards for the purpose of comparison.

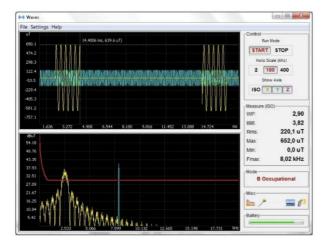
The Waves software allows the selection of four indexes: the weighted peak WP10, the index IB50, II98 and IRSS.

The readings always reported include: the average RMS, the RMS average normalized with respect to the frequency limit predominant (IRMS), the maximum and minimum value, the frequency with the highest spectral content (Fmax).

A special command provides the user with the possibility to filter spectral content in the frequency domain, eliminating that contents which have a value of less than 10% which is indicated below the red threshold line. This function is specifically requested by CEI EN 50500.

All information displayed can be exported either as images or as tabulated data.

The Waves software application can be installed on systems running Microsoft Windows XP, Windows Vista, Windows 7, 8, and 10 both 32 and 64 bit.





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MICR (m)

Kull Mode		
RUN	STOP	
Frequency Span (kHz)		
1 20	400	
RefL	Ref Level	
POP INF SUP LOC		
Trigger		
Off	Man	
Show Axis		
	YZ	
Options		
1 auto	$\stackrel{\sim}{_\sim}$ 50Hz	
↔ logf	⊾h fsup	
Measure (ISO)		
 ✓ WP: ► 	0,53	
RMS:	203,0uT	
Peak:	32,5uT	
Fmax:	5,03 kHz	
HOLD		
-Data		
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Potton	-Battery	
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-Control



Technical specifications:

Instruction Wide Data mode: 100 kHz = 40GHz DispLay Type Transflective LCD monochrome backlit Size 2.8" 128 x 64 pixel SAMPLING Rate Up to 2 Msps MEASUREMENT FUNCTIONS Measurement units V/m, A/m, W/m ² , mW/cm ² , uT, mT (depending on the probe) Display range from 0,00001 to 99'999 Result types Instantaneous ISO (short term r.m.s.) and Cartesian components; MAX of ISO instantaneous value Time average AVG: r.m.s. value in moving window selectable from 1s to 192min 24H moving average available for monitoring using software Space Average SPT: single storing average value Normative mask weighted indexes WP, Ib Indexes on sw Waves RMS, Peak, WP, Ib, 1198, IRSS, IRMS, Fmax Max Hold Selectable on instrument and/or software STORAGE MEMORY Single acquisition Single acquisition 1'024 non-volatile values Monitoring 29 non-volatile sequences Sampling buffer 65'536 memory points INTERFACES Optical interface Optical interface Plug-and-play auto detection, LEMO™ connector GPS GENERAL CHARACTERISTICS Recommended calibration interval 24 months Battery Li-lon rechargeable Operating te	FREQUENCIES		
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Operation time> 24 ore (backlight and GPS off).Charging time3 hoursOperating temperature $-10 ^{\circ}$ to $+50 ^{\circ}$ Storage temperature $-20 ^{\circ}$ to $+70 ^{\circ}$ Humidity5 to 95%, non-condensingSize (h x w x d)183 x 92 x 47 mm (without probe)Weight700 g (including batteries without probe)	Recommended calibration interval	24 months	
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Weight 700 g (including batteries without probe)	Humidity	5 to 95%, non-condensing	
Weight 700 g (including batteries without probe)	Size (h x w x d)	183 x 92 x 47 mm (without probe)	
	Weight		
	Country of origin		





NHT 3D kit:

- NHT 3D Meter
- Optical / USB Adapter
- Fiber Optic Cable (10mt)
- AC/DC Power Supply
- Calibration certificate ISO 9001÷2008 Standard IEEE 1309-2013
- User Manual

Optional accessories:

- Rigid Case
- Wooden Tripod (1-2 m), including travelling case
- Accredia Calibration certificate ISO 17025



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