

NHT 3DL

The new landmark meter for electromagnetic safety



NHT 3DL

The new reference meter for the European directive 2013/35/EU

NHT 3DIs a brand-new electromagnetic field analyzer equipped with the most advanced technology.

Powerful, light, compact, fully non-magnetic with over 24 hours of operating autonomy and virtually unlimited memory.

It incorporates an operator interface based on a high resolution color touch screen display/

The user interface can be remotely controlled via Wi-Fi and displayed on Windows operating systems (PC, tablet) as well as on Android devices (smartphone).

In compliance with the 2013/35/EU directive, our device performs the weighted peak measurement (WP10) in real time. It is equipped with a section for complex signal analysis composed of an FFT analyzer and a complete oscilloscope equipped with triggers and markers.

While in broadband m**MHT 3DL** can demodulate and rebuild pulse radar signals with a Tau up to 500 ns.

Touch Screen



Over 24 hours of autonomy



Remote connection on Android OS smartphones



All named brands belong to their respective ow



679

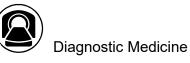
NHT 3Dbas been designed to measure electromagnetic fields in compliance with all the main international standards and regulations.

This device is able to adapt to future regulatory requirements using its completely reprogrammable system and structure.

NHT 3DIs ready for the 5G challenge, for the automotive/railway electric traction industry, the medical diagnostics field and wherever regulated industrial activities exist.















Radar



Series 33 with electric and Series 10 with ma field probe

Series 10 with magnetic magnetic fields selective probe

FFT component tracing of Graphic data logger (h) 0 of the WP10 index electric and magnetic fields (example: frequency 50 Hz 31.78 2.94 9.94 25.74 Peak: Spt Avg: Max Peak, average, Instantaneous 527 .9 20 R.M.S. value maximum values Simultaneous view Peak: Spt: Avg: Max 747.83 Peak: 69.30 Spt: 233.83 Avg: 605.64 Max 34.4 12.82 3.44 29.9 Wp Icnirp'10 Pop of the electric and 67.1% 19.0 11.24 magnetic fields Mac 77.2% PPT 10 (combined mode menu Axial components WP10 weighted index 1 MHz FFT in 4 bands 1/10/100/1,000 kHz 1,000 points per band



Series Ø with RF electric field probe



Series ER with Radar probe



Spectrum Analyzer, Oscilloscope and Radar Pulse Detector



The**NHT 3Db**as been specifically designed to provide on board measurements of electromagnetic field characteristics in both time and frequency domains.

The bandwidth in both modes is 1 MHz.

Thanks to this solution it is possible to analyze and store complex waveforms with transitory/pulse features.

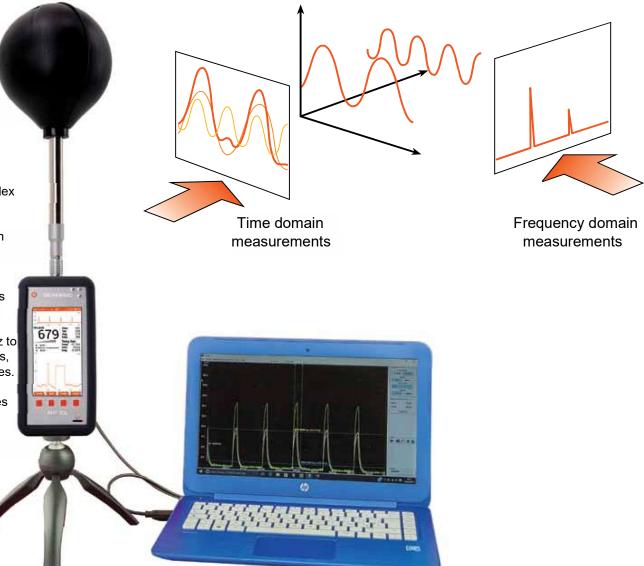
In the FFT Analysis mode, the device covers the 1 MHz band in four decades, 1/10/100/1,000 kHz with 1,000 points resolution per decade and automatic peak search markers.

In the Oscilloscope mode, it displays high-definition time frames with manual trigger function and Amplitude/Time marker.

In the broadband operating mode with RF probes from 100 kHz to 40 GHz, it demodulates the pulse signal base band up to 500 ns, with automatic measurement of Tau, PRF and Duty Cycle values.

This mode has been specifically designed for the Radar sources recognition and measurement.

NHT 3D ban be completely remotely controlled via fiber optic or wireless (Wi-Fi) connections.





	FREQUENCY	
Frequency range	Selective mode: DC – 1 MHz Wide Band mode: 100 kHz – 40 GHz	Single/contine acquisitions
	OPERATOR INTERFACE	High resolut recording
Graphic display	4.3" TFT, 272 x 480 pixel, 262K color	Timer
Backlight	LED, automatic or manual intensity adjustment, readable in the sun	Notes
Input devices	Resistive touch screen and keypad	
	MEASUREMENT FUNCTIONS	Acquisition I
Measurement units	V/m, kV/m, A/m, W/m2, mW/cm2, uW/cm2, uT, mT, Gauss, % (depending on the probe)	USB interfa
Display measurement range	From 0,00001 to 999'999 (depending on the probe and on the selected unit)	Probe input
Refresh period	4 times per second	
Result types	r.m.s. instantaneous and peak, isotropic and individual Cartesian components	
Time average	r.m.s. value on a moving window selectable from 1 sec to 24 hours	Battery
Space average	Single acquisitions average value	Operation ti
Weighted indexes	Weighted peak calculated according to the limit levels set by the	Charging tin
	guidelines Icnirp'98 for the population, Icnirp'10 for the working environments, and by the directive 2013/35/EU for the lower, upper, localized levels; main international standards	Battery leve
Max Hold	Display of the r.m.s. instantaneous value and of the maximum weighted Ir index value	

ACQUISITIONS				
Single/continuous acquisitions	Saving of all the data presented by the instrument, with a settable interval, between one memorization and the next, from 0.25 to 60 seconds			
High resolution recording	High resolution signal recording for offline PC analysis			
Timer	Setting the start time and/or duration of the acquisitions			
Notes	Possibility to add text notes to each acquisition			
Acquisition memory	Removable micro SD; with the provided memory over 2M of measurements in acquisition mode or over 200 seconds in high resolution mode are stored			
	INTERFACES			
USB interface	Micro USB connector for PC interfacing			
Probe input	Plug-and-play connector, self-recognition of the probe			
	GENERAL SPECIFICATIONS			
Battery	LiPo rechargeable			
Operation time	> 24 hours (backlight and external accessories off)			
Charging time	3 hours			
Battery level indication	Percentage indicator			
Integrated sensors	Humidity (accuracy ±2%) and temperature (accuracy ±0.2°C)			



Combined mode	Simultaneous display of electric and magnetic field values (<i>Series 33</i> probes)	Operating temperature	-10 °C to +50 °C
	Minimum (up to 500 ns) and maximum pulse width measurement and	Storage temperature	-20 °C to +70°C
Time measurement	duty cycle calculation	Humidity	5 to 95%, non-condensing
	GRAPHIC FUNCTIONS		
		Size (h x w x d)	170 x 85 x 31 mm (without probe)
Data Logger	Time diagram of the measured values, selectable among: r.m.s. instantaneous or peak, time average, weighted index, value of a	Weight	650 g (including battery without probe)
	component of the FFT at a certain selectable frequency. The window length can be set from 1 to 60 minutes	Country of origin	Italy
FFT (selective mode)	FFT with 1000 graphic points in the selected span (1 / 10 / 100 / 1000 kHz)	ACCESSORIES	
Oscilloscope	High resolution diagram of the signal in the time domain		
		Included accessories	Power charger, protective silicone shell, USB cable, application software and user manual
Marker	Markers useful to highlight and to measure the values within the graphs		
Trigger	Possibility to update the graphic diagram, in the oscilloscope mode, when certain conditions for exceeding a threshold occur, referring to the instantaneous r.m.s. field, peak field or weighted index	Optional accessories	GPS sensor, Wi-Fi module, Fiber optic module, Power Bank module, ISO 9001÷2015 Standard IEEE 1309-2013 or ISO 17025 accredited certificate, tripod and rigid case



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Technical information may be subject to change without notice