NanoVIP® QUADRA™ extends NanoVIP® TWO™ and NanoVIP® CUBE™ measuring range, breaking into the whole energy field, thanks to its extreme flexibility and wireless capabilities.

It works as a powerfull standalone Electrical Power Quality analyzer as it includes all the measuring features of its related NanoVIP® CUBE™, but it can also measure parameters and efficiencies of energy systems like Solar sets, UPS, Generators, Storages, Chillers, Heating systems etc.

NanoVIP® QUADRA™ is powered by NanoVIP® MRH™ technology that, thanks to specific hardware and firmware solutions, is capable to offer to electrical field professionals the possibility to perform:





energy handling systems.

to catch events where and when they are really easier and quicker allowing professionals to patrol many critical points of a network in realtime.



- High usage flexibility
- Realtime, heterogenous multi-point measurement

- Auto recognition of clients

Estrema flessibilità di impiego

- Rete di misure auto configurata

- Red de auto-configuración

- Hohe Nutzungsflexibilität

- Selbstsetzendes Netzwerk

- Unlimited loads, unlimited generators, solar panel strings, storages systems, grid connections and

- Calculations according to EN 61724 and CEI 82-25

Misure in tempo reale, multipunto ed eterogenee Illimitati carichi, illimitati generatori, pannelli e

- Riconoscimento automatico dei device periferici - Calcoli in accordo con EN 61724 e CEI 82-25

Medición heterogénea multipunto en tiempo real

- Cargas ilimitadas, generadores ilimitados, cadenas de paneles solares, sistemas de almacenamiento, conexiones de red y puntos Independientes

- Reconocimiento automático de dispositivos cliente - Cálculos y verificaciones según EN 61724 y CEI 82-25

Realtime, eterogene Mehrpunktmessung

- Automatische Erkennung von Clientgeräten - Berechnungen und Prüfungen nach EN 61724 und CEI 82-25

- Unbegrenzte Lasten, unbegrenzte Generatoren, Solarpanel-Strings, Lagersysteme, Netzanschlüsse und Standalone-Punkte

stringhe di pannelli, sistemi di accumulo, punti rete,

	Master	DE	DS	DGP
Master operating	N			
Client operating		N	N	×
Standalone	N			
Single point monitoring	N	×		
USB connection	N	×	N	×
SD card	N	×	N	×
Local campaign data storage on SD	N	×	N	×
AC measurements	N	N		
DC measurements	N	×	N	
Solar measurements	N		N	
Panel and panel string verification (CEI 82-25)	N		N	
Multi lines solar systems verification (CEI 82-25)	×			
Multi lines solar system realtime measurements	N			
Solarimeter interface	N		N	×
Temps interface (Ambient and Panel)			N	×
Wind speed interface			N	×
General transducers interfaces				×
Harmonics	N	×		
Transients	×			
Inrush	N			
Wave form	N	×		
Counters	N	×	N	×
Alarms	N			
Active, Reactive and Apparent P,E	N	×		
Tariffs	N			
EN 50160 test	N			
EN 61724	N	×	N	
PC Software QUADRAStudio	N			
Indoor max point to point distance	60m	60m	60m	60m
Outdoor point to point max distance	600m	600m	600m	600m

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Elcontrol

NanoVIP® QUADRA™

✓ = Available











Measurement campaign on complex and spread

MRH™ technonolgy finally overcomes the difficulty originated; it makes multipoint electrical checks safer,











Safety

Safety is a key and indispensable point for Elcontrol.

MRH™ technology makes a further step in electrical safety as it allows professionals to follow measurement with safely closed electrical panel doors, still leaving them the chance to operate on analyzer.

In critical conditions, master can be used as a remote measurement monitor device that permits professional to remotely check what each network device is measuring without accessing powered on electrical panels.

Time Efficient

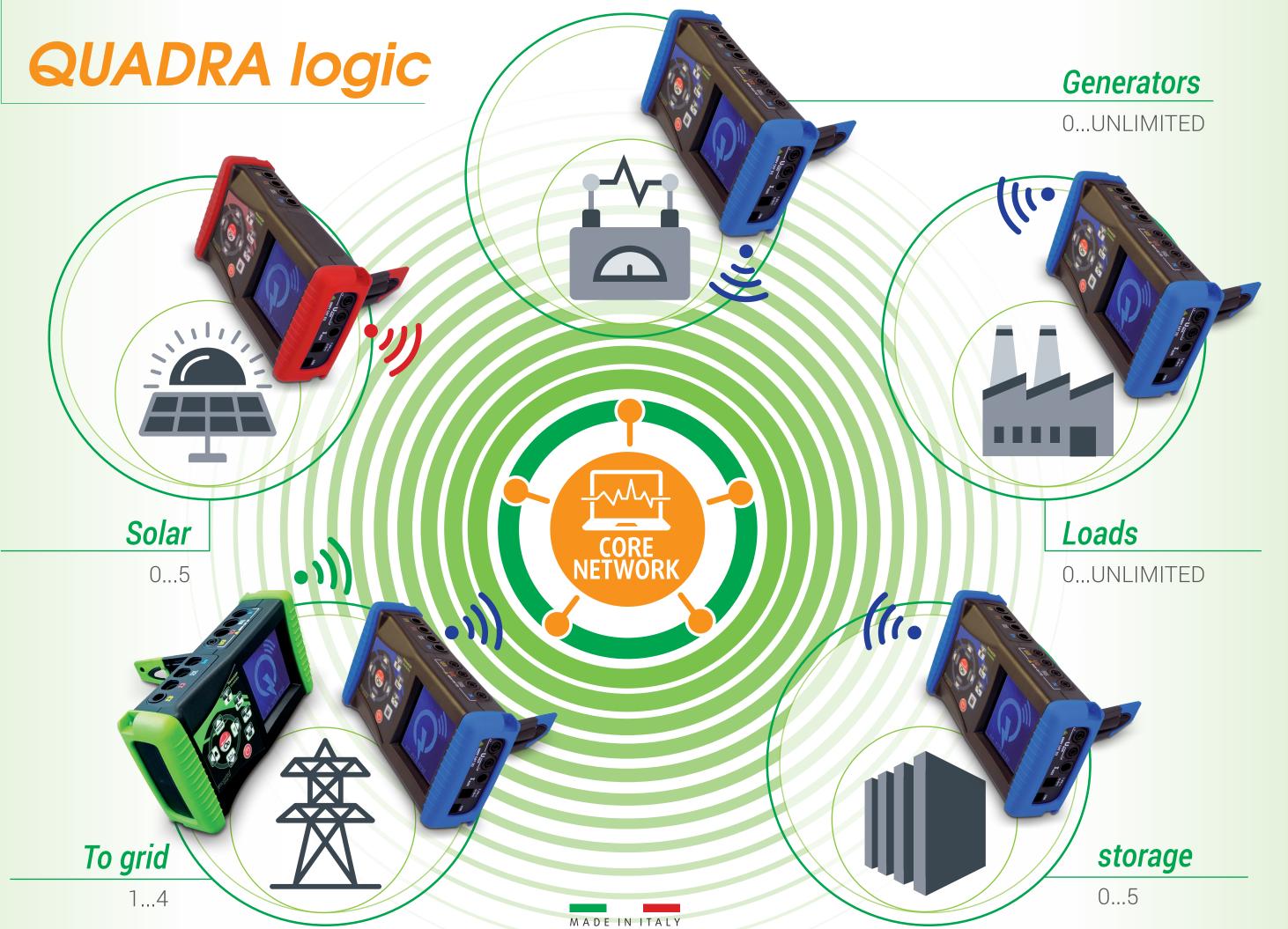
MRH[™] technology of NanoVIP® QUADRA[™] system boosts professionals efficiency due to its relatime and multipoint measuring capability.

It cannot erase the analyzer deployment time (captors and ct clamps fixing) but it dramatically squeezes analyzing times. Let's consider a simple need of a professional that plans to make a measurements on three different points of a network; let's assume one our campaign each and five minutes time each for captors and CTs setting.

With a standard analyzer. 5+60+5 minutes per each point. 3 hours and 30 minutes

With a NanoVIP® QUADRA™ system: 5+5 minutes per each point and just 60 minutes of campaign. 1 hour and 30 minutes.









Congruent & Solid Data

A typical limit of campaigns done on different positions of a network consists in the fact that they do not measures events in the same moment; it happens very often that, once you have caught an event, it is almost impossible to get also its source.

Realtime multipoint measurement of NanoVIP® MRH™ technology finally overcomes this limitation giving to professionals a set of measurements (done on different network points) but in the same moment and synchronized; whenever event happens, the source is catched as well.

No need for extra measurement, tests and attempts to recreate same event conditions.

Naturally Heterogeneous

NanoVIP® MRH™ technology makes very simple and quick to set up and measure in realtime a network where heterogeneous devices (loads, generators, ups, solar systems etc.) are working together.

It is sufficient to declare each measuring device role to quickly launch a realtime measurement or an overall campaign. NanoVIP® MRHTM technology, due to its auto-recognition and self-configuration capabilities, does automatically all the necessary network settings.