



# A Clearer View Changes Everything

Change the way you view your network with the VisNet View – grid-edge intelligence for LV overhead lines



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**PUBLIC**

[www.visnet.tech](http://www.visnet.tech)

# VisNet® View

The VisNet View is EA Technology's latest innovation in low-voltage (LV) network management, and an evolution of our award-winning VisNet® Hub monitoring system.

## Introducing the View – and why you need it

Based on customer requirements and industry demands, we are proud to introduce the View, a compact, pole-mounted monitoring device that delivers leading grid-edge intelligence and visibility of overhead LV networks to Distribution Network Service Providers.

The View has been designed to push intelligence to the network edge to improve analytical capability and return actionable data insights. Teamed with the VisNet Apps the View will unlock greater visibility for a more reliable and stable electrical network.

The device provides reliable baseline visibility across pole-mounted LV networks at scale.

By revealing how assets behave under real load diversity, EV uptake and DER, VisNet View provides grid-edge intelligence that enables DNSPs to maximise existing LV capacity, target reinforcement accurately and support faster network growth.

Quickly detect and respond to faults and outages in your network with actionable insights and prevent faults developing with advanced pre-fault analytics. This market-leading grid-edge intelligence uses pre-fault waveforms, fault energy accumulation and condition scoring to pinpoint emerging circuit risk. Thus, enabling proactive maintenance and more resilient network operation as demand grows.

With on-device analytics, resilient communications and built-in backup capabilities, VisNet View delivers grid-edge

intelligence even during outages, storms and network disruptions, reducing reliance on constant connectivity or centralised processing.

This pole-mounted device offers a lightweight and compact design with simple aesthetics. Its unobtrusive profile allows for more discreet deployment in a range of environments, minimising visual impact while maintaining optimal functionality.

It has exceptional durability and operational assurance that further elevate its performance and reliability.

Engineered for resilience, the device offers excellent protection against the weather – with UV resistance, and the ability to withstand extreme temperatures, from -30°C to 65°C, the View ensures consistent performance in extreme environmental conditions.

Designed with an integrated battery backup, this pole-mounted monitoring device features a 'last gasp' capability, capturing and transmitting final data upon power loss while simultaneously triggering an alarm to notify users of the interruption. The system also includes intelligent angle detection, automatically sounding an alarm if pole displacement suggests potential structural damage.

Providing measurement and insights in real time, the View is the more advanced way of reducing/managing power outages and avoiding any associated penalties for overhead networks. The future is clear to see.



Push intelligence to the network edge



Increase visibility



Improve analysis capability



## The View - at a glance:

- Digital pole-mounted LV monitoring device.
- Real-time network monitoring of up to 2 feeders to deliver market-leading actionable insights.
- 16kHz measurement sampling (waveform capture) with up to 100th harmonics measurements.
- Runs the VisNet App Suites for world-class data insights into capacity headroom and fault management.
- Compact, lightweight and simple enclosure design.
- Integrated battery back-up delivering last gasp communication.
- Internal / self diagnostic capability, including PCB & battery temperature indicators and some internal health monitoring.
- Better weather resistance - with a wide operating temperature range, UV resistant design and enhanced Ingress Protection.
- Colour-coded voltage & current leads to reduce installation errors and speed up field assembly.
- Alarms triggered by pole angle changes to detect potential damage.
- Secure wireless connectivity for commissioning at ground level.
- Simple installation no matter what the pole dimension or material - ready assembled with captive currents and voltage cables.

# Capability, Connectivity & Compatibility

The View is both cost-effective and convenient - the flexible way to monitor overhead network data, enhance visibility and maximise utilisation.

## Assembled to connect:

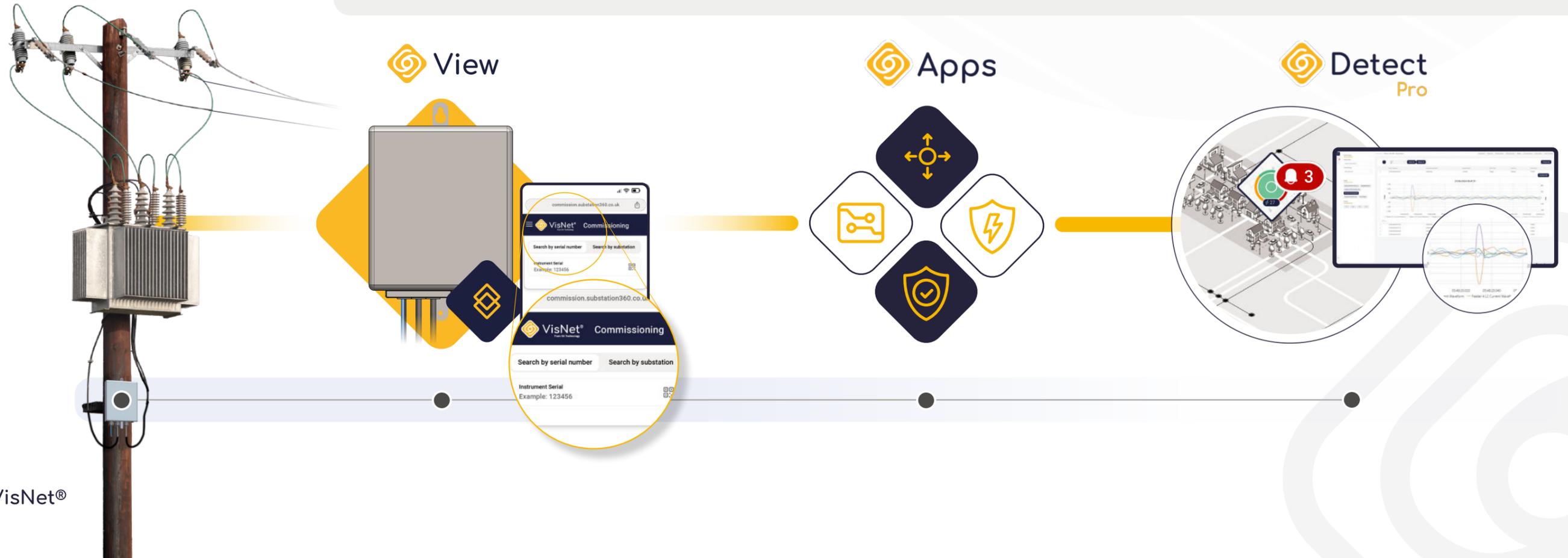
Ready assembled, and with easy single-person installation, the View comes ready for action.

There is wireless ground level commissioning via the mobile App, VisNet Start (Bluetooth Low Energy BLE + secure WiFi). Beyond convenience, the wireless commissioning process is underpinned by secure pairing and encrypted credentials, all exchanged securely over BLE, enabling secured, proximity-based commissioning sessions.

The default connection comes in the form of an internal Long Term Evolution (LTE)(4G) module for communications to cloud platforms for remote monitoring of data. In addition, backwards compatibility ensures the communications can migrate from LTE to 2G or 3G networks where necessary.

## Get a clear view:

- LV monitor with advanced on-device functionalities.
- For use on pole-mounted MV/LV Transformers with either 1 or 2 sets of LV feeders.
- **Data capture across:**
  - Phase & Neutral Currents per Phase (RMS).
  - Phase to Neutral Voltages (RMS).
  - Real and reactive power per feeder.
  - Real, reactive and apparent power at transformer.
  - Total Harmonic Distortion for Voltage and Current Measurements.
  - Pole angle changes.
  - Pre-fault and fuse blow events.
- **Operating platform:** LV-CAP which runs multiple algorithms (Apps) on-device to provide valuable data insights.
  - Use the VisNet Capacity Apps to receive enriched insights into your asset's capacity, such as real-time and historic loading data to deliver automated alerts when circuits and transformers approach, reach, or exceed their operating limits.
  - Host the VisNet Reliability Apps to quickly detect and respond to faults and outages in your network or take a proactive view and see pre-fault data to identify potential faults and outages.
- Secured and encrypted LV-CAP OS environment with OTA software updates.
- Integrates with VisNet Substation360 ecosystem and 3rd party systems.
- Clear data insights provided through the VisNet Detect Pro user interface.



# Combine with Detect Pro for even more visibility

The View is compatible with Detect Pro, our UI platform that enables you to identify network issues quickly – and take action. Visualising insights for a clear analysis of performance, combine Detect Pro with the View and you can truly control your network, 24/7.



## Detect Pro:

- Configured to facilitate all VisNet View capabilities.
- Powerful and easy to use software UX.
- Dashboard tailored around relevant App suites.
- Secure access to real-time and historic data.
- Developed to make sense of a fleets' worth of LV network data.
- Continuous development and update release cycle with a focus on automating engineering insights.
- APIs available to feed into real-time / archive systems.

## Technical Details

<b>Enclosure Size</b>	215 x 250 x 60mm.
<b>Total Weight</b>	VNV1 Enclosure & Voltage Leads: 2.2kg (+ 0.5kg per Current Way).
<b>Status Indicator</b>	Two Configurable LEDs; Power (Red) and Comms (Green) Status by default.
<b>Cables</b>	Unit is assembled with captive current and voltage cable assemblies for ease of installation, in two variants (see below). The voltage leads are specifically designed to be compatible with IPCs supporting up to 6mm <sup>2</sup> secondary cables.
<b>Variants</b>	VNV1-4: Three Phase & Neutral with four Rogowski Coils. VNV1-8: Three Phase & Neutral with eight Rogowski Coils.
<b>External Connectors</b>	The device is supplied with cables pre-assembled to allow for quick installation and maintained ingress protection. The IPCs for voltage terminations are not included.

<b>Typical Use</b>	Outdoor (Pole Mounted).
<b>Operating Temperature</b>	-30 to 65 degrees celsius.
<b>IP Rating</b>	IP65.
<b>Intended Product Lifespan</b>	Bespoke, Internally-Managed Long-Life NiMH Battery Pack, designed to last up to 10 Years but is highly dependent on the operating temperature.

<b>Measurement Sampling</b>	16kHz Synchronous Sampling with Waveform Capture.
<b>Measurement Harmonics</b>	Up to 100th across all channels.
<b>Voltage Channels</b>	Integrated Single, Split & Three-Phase Voltage Measurements.
<b>Voltage Accuracy</b>	1% (within operating voltage).
<b>Voltage Range</b>	+/- 700V.
<b>Current Channels</b>	Integrated VCS2 Rogowski Coils with 50mm aperture (3m Length). Single (L1,L2,L3,N) or Dual (two sets of L1,L2,L3,N) channels.
<b>Current Range (Max)</b>	+/- 30kA.
<b>Current Range (Nominal)</b>	30-1,000A.
<b>Current Accuracy (Nominal)</b>	1%.
<b>Current Channel Insulation</b>	Double reinforced insulation to 600V CAT IV (BS EN 61010-2-032).

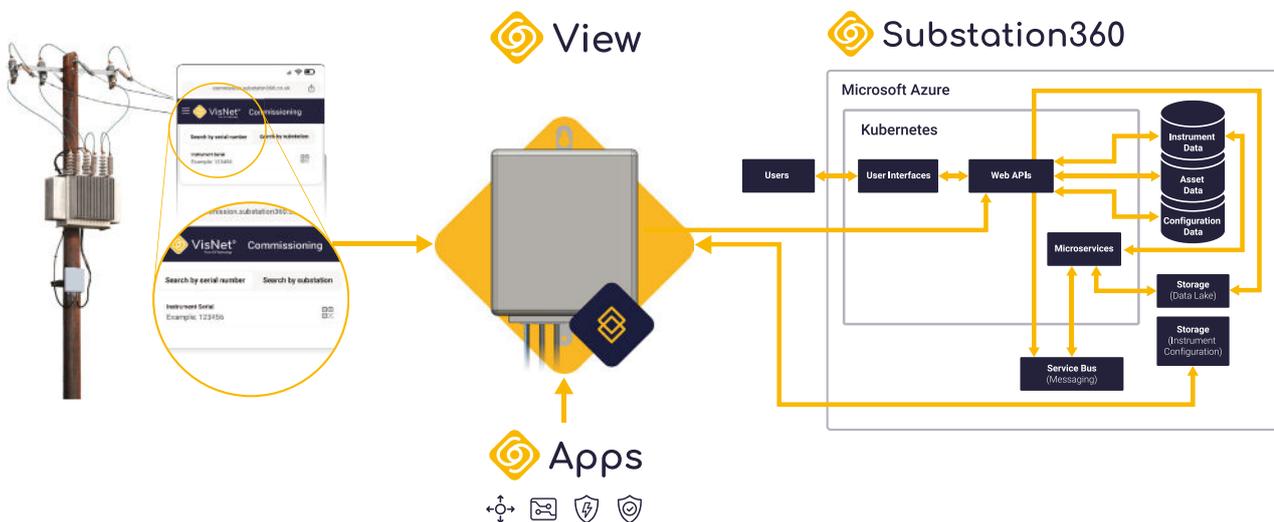
<b>Operating System</b>	LV-CAP (Linux and Docker based) – updated at customer defined intervals.
<b>Software Extensibility</b>	Apps on LV-CAP – subscription to algorithms and data applications.

## About VisNet, from EA Technology:

Pioneers in the field of Low Voltage management, VisNet, from EA Technology, specialises in developing grid-edge intelligence solutions for owners and operators of electrical assets.

We deliver real-time monitoring and pre-fault detection to improve network resilience and enhance the customer experience.

## The VisNet View Ecosystem



To book your demonstration or to get further information and advice please contact us on:  
**+65 (0) 6443 3833** email: [sales@eatechnology.sg](mailto:sales@eatechnology.sg) or visit: [www.visnet.tech/en-sea/](http://www.visnet.tech/en-sea/)