

The elevated Mobile Assessment & Surveillance Tool - eIMAST

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What is an eIMast?

The eIMAST consists of a Vehicle mounted pneumatically extendable mast that supports a wirelessly operated Pan-Tilt-Zoom digital camera. The mast can be extended to heights up to 50 feet.

eIMAST provides a valuable tool for engineers and inspectors working with all types of elevated infrastructure, thus allowing for safe and close inspection of electrical equipment such as insulators, cross arms and various fittings commonly found on electricity distributing poles.



Above:
The GT eIMast is encased in an all-weather shell and is operated remotely from any, portable device.

How can it be applied?

Power distribution networks undergo cyclic inspections, generally carried out from the ground level. Whilst this provides the necessary information about a pole's condition close to the ground, the pole top condition assessment is not as reliable. If inspectors have doubt as to the pole top condition, it will be flagged for further

investigation. This further investigation typically requires a second visit to the pole by two or more qualified personnel with an Elevated Platform Vehicle (EPV). This practise becomes expensive, especially when a high percentage of identified poles in fact are found to require no maintenance.

eIMAST can be simply fitted to inspectors' vehicles and then deployed as needed to provide a clear real-time up close view of the pole top furniture thereby helping to establish definitively the pole top status. This significantly reduces the number of incorrectly assessed pole tops and the cost of reinspection. Traceability can also be achieved by recording high quality still image or video files regarding the status of;

- ▶ Corrosion
- ▶ Seal and gasket leaks
- ▶ Contact wear
- ▶ Cross arm deterioration
- ▶ Equipment failure or wear
- ▶ Nameplate details
- ▶ Plant audits and inspections
- ▶ Pollution build-up

Other applications include: Construction Industry / Legal / Insurance / Traffic Authorities / Advertising & Marketing / Security and Special events monitoring.

Key Benefits of eIMast

- ▶ **Single person Operation.**
- ▶ **Safe All-weather deployment.**
- ▶ **Integration to existing applications**
- ▶ **Traceable / Auditable Assessments**
- ▶ **Cost effective,** Compared to alternative methods of inspection.
- ▶ **Quick to deploy.**
- ▶ **Rapid Deployment (30 seconds)**
- ▶ **Generic installation,** can be removed and refitted within minutes to most Vans and 4WD's



your spatial advantage