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e-SYNC - "Electronic" Surveying Instrument



The **e-SYNC** is an electronic surveying instrument that provides inclination and tool-facing readings accurate to ± 0.5 degree.

The **e-SYNC** can be set to activate at its destination or provide continuous readings.



The **e-SYNC** receives its operating commands and reports the survey results to a handheld computer.

The handheld computer has a touch sensitive screen with large, user friendly buttons and text to guide you through the commands required to start and download a survey.

Communication between the **e-SYNC** and handheld computer is through wireless "Bluetooth" technology.

Wireless communication can only occur over an obstacle free distance of a few metres. This means that the **e-SYNC** and handheld computer do not communicate when the instrument is in the hole.

A special connection cable is also provided as a backup means of communication. (see operating manual for more details)

The philosophy behind our electronic instrumentation was to design a series of survey instruments that deliver reliable and accurate surveys efficiently and cost effectively. This new series of instrumentation is intended to provide only those options required for a particular surveying program to maximize the value of investment, pay only for what you require. This philosophy combined with Pajari Instruments commitment to building a quality product will advance surveying capabilities into the new millennium and beyond.

The **e-SYNC** which provides rapid inclination and tool-facing is the first in our new series of electronic surveying instrumentation.

The **e-SYNC** can be used as a "single shot" or "multishot" surveying instrument, and with its "life-line" lowering cable, will be able to provide "real time" continuous surveys.

The applications available for use with the **e-SYNC** are extensive.

In "wireline" surveying, the **e-SYNC** becomes part of your "overshot" which is sent down to retrieve the core barrel. This ability to take an inclination survey at the same time as you pick up your core saves you time and money!

For "clay impression core orientation", the clay impression "dropper" with the **e-SYNC** attached, is lowered to the bit where it takes an impression of the core stub. The "dropper" has a spearhead for retrieval with an overshot.

The **e-SYNC** used with application hardware specific to your hole diameter, can also be used in “open hole” surveys and for determining the verticality and/or for verification of the angle of holes in “site engineering” applications.

Versatility is the key to our new electronic instruments. Designed on a common platform of data processing and data display our new instrumentation can be easily adapted to almost any survey application, without the need to design a new instrument from scratch.

All of our electronic instruments require a programmable device (usually a hand-held palm device) with which the instrument communicates. The communication is “wireless” using Bluetooth® protocol with a wired communication socket as a backup path. On retrieval the **e-SYNC** is ready to download the survey results as soon as it clears the collar. Cables used in real time in-hole surveys require a dedicated cable winch. Sensors for pressure and temperature measurements are also included.

Pajari Instruments has over 60 years of experience in designing and manufacturing surveying instruments and is currently operating under a registered ISO 9001-2000 International Quality System.

This experience, has taught us that no single instrument or application hardware will do all surveying jobs well. Pajari Instruments Ltd. has created the in-house capabilities to work with you to choose, or design and manufacture, the best combination of equipment attributes for your needs.