UrsaNav® UN-330 ASF Measurement Unit

GENERAL OVERVIEW

The UN-330 Additional Secondary Factor (ASF) Measurement Unit is designed to record and process signals received from a set of eLoran Stations. The unit requires a set of support equipment, including antennas and accessories, to record eLoran and GNSS data and pre-process it to produce ASF maps. The data from this unit can be exported to generate ASF maps using the UrsaNav® ELEGANT ASF Map Generator™ software. The UN-330 includes two Ursa Mitigator™ OEM receiver modules, a GNSS receiver board, and a rubidium oscillator. These all interface with a single board computer (SBC) via the Universal Interface Board (UIB).

PRODUCT HIGHLIGHT

ASF map generation is a multistep process resulting in an ASF map that is loaded into receivers to improve positioning accuracy in the mapped region. This ASF map provides improved positional accuracy and when coupled with differential corrections from a reference station provides the highest fidelity of a positional solution. The UN-330 is an integral component in the development of accurate ASF maps. Field measurements are made using the UN-330 ASF Measurement Unit and then the collected data is transferred to the ELEGANT ASF Map Generator™ software for processing into ASF maps.

UN-330 ASF Measurement Unit

KEY FEATURES

- The UN-330 supports both E-field and H-field eLoran antennas, along with a GNSS antenna, for comprehensive signal acquisition.
- Facilitates all the steps required for ASF map generation: field measurement, data transfer, data processing, and map transfer to receivers.

SPECIFICATIONS

POWER SOURCE	9-36 VDC, 200W
SIZE (2RU)	48.3 x 55.9 x 8.9 cm 19 x 22 x 3.5 in
INPUTS	1 PPS
CONNECTIVITY	ETHERNET, USB, HDMI