

GPS/GLONASS/GALILEO REPEATER

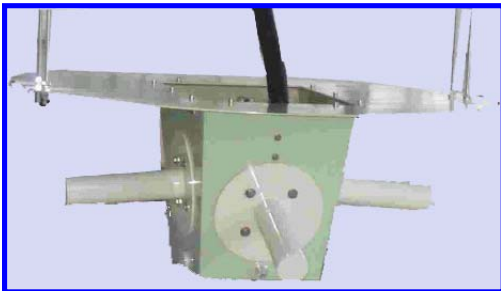
System for acquiring, amplifying and retransmitting GPS, GLONASS and GALILEO signals for satellite visibility even in hangars, factories and other covered environments.



Receiving Antenna



Filter and Amplifier



Retransmission RF box

ELTA has developed a **GPS/GLONASS/GALILEO Repeater** for acquiring the radio signals from these different navigation satellite constellations. The radio signals can be retransmitted in any place where the signals do not normally or hardly penetrate – such as assembly hangars, clean rooms, repair workshops, factories...

The ELTA Repeater gets around the Faraday cage problem associated with these types of location, **making possible full functional tests of your satellite navigation equipment even inside buildings**. Apart from position information, your application can also synchronise to the GPS time signal.

The system consists of an **external receiving antenna** (with an open view to the navigation satellites), a **filter**, an **amplifier** and a **retransmission system**, the latter contained in a **separate RF box with four omni-directional antennas**.

The Repeater installation is **adaptable** to the zone to be covered. We have already installed the Repeater in zones of 14 000m².

The Repeater is suitable in all applications where the GPS, GLONASS and GALILEO signals cannot normally penetrate:

- Assembly hall (civil and military aviation)
- Factories (automobile, lorries, ...)
- Test Centres
- Clean rooms, integration halls
- Repair workshops
- ...

The Repeater covers the following frequencies:

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| • GALILEO/GPS/GLONASS (E5A-E5B-L5-L3): | 1164MHz to 1215MHz, |
| • GPS (L2): | 1215MHz to 1240MHz, |
| • GLONASS (L2): | 1240MHz to 1260MHz, |
| • GALILEO (E6): | 1260MHz to 1300MHz, |
| • GALILEO/GPS/GLONASS (E2-L1-E1): | 1559MHz to 1610MHz. |



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ELTA reserves the right at any time without notice to change specifications

Electronics for Harsh Environments