Ge-Y2-E3305 - Life Science Sensor Package

The Ge-Y2-E3305 was developed for use on the *Ge-Y2-1a - Hanto-Class Starship* and became available in YE 33.

About

This sensor package was added to give the *Hanto* additional science capabilities. It based on the *Ke-T8-E3101 Science Sensor Package*.

Specifications

General

Class: Ge-Y2-E3305 Type: Sensors Designers: Geshrinari Shipyards Manufacturer: Geshrinari Shipyards

The Ge-Y2-E3305 provides the following capabilities:

Life Detection Sensor

This sensor allows the ship to detect and identify various life forms within range. This sensor has different functions and ranges.

- Basic - provides the most basic scan detecting that life forms are present. Range: 5 km omnidirectional
- Filtered - allows the operator to filter out life forms based on class from simple organisms to more complex. This mode will actually attempt identify the life forms present, by comparing the signatures to known values. Range: 10 km omnidirectional.
- Advanced - increases the range of the scanner because by selecting a specific type/class of life form for the scanner to search for. Range: 100km directional only.

Emission scanner

This sensor is designed to detect different types of energy emissions.

- Electromagnetic - this sensor can detect and identify EM signals, providing, the wavelength, frequency, and signal strength. It can also be set to locate the source of the emission.
- Ionizing Radiation - this sensor can detect and identify the following particles: alpha particles, beta particles, and neutrons. Detects radiation on the short wavelength end of the electromagnetic spectrum namely ultraviolet, x-rays, and gamma rays. In addition to identifying the type of radiation it can determine the level present.
- Light Spectrum - this sensor can detect and identify light ranging from infrared through the visible spectrum and ultraviolet. It can be set to scan for a particular band of light, or to identify what bands of light are present, and how strong.

Geological Scanner

This sensor array is designed for provide geological data.

- Ground penetrating radar which can be used to image through rock, soil, ice, fresh water. It can detect objects, changes in material, and voids and cracks. Range is 10 kilometers.

Visual Sensors

- Variable wide-band imaging clusters
- Long range telescope (20 LY)
- Infrared

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