

Laser Communication Array

The LCA was designed as a sister network to the [Shade Field Satellite Network](#) and developed alongside the secret project throughout [YE 41](#), unlike its sister network the LCA consists of various planetary installations rather than satellites. The LCA as name suggests is a collection of transmission and receiving stations situated across several globes designed to communicate via laser beams, it was solely designed by [Kingdom of Neshaten](#) and kept secret even from [Galactic Horizon](#) despite their involvement in the Shade Field project.

Designer:	Kingdom of Neshaten
Manufacturer:	Kingdom of Neshaten
Fielded by:	Kingdom of Neshaten

History

It was concluded very early into the design of the Shade Field that the Kingdom would require some method of communication with assets beyond the signal blocking barrier, the chosen method was laser communication. The relatively low-tech method was already hard to block as it was and difficult to intercept making it an already ideal method of use when security was paramount. Another vital reason in the decision to use laser comms was how little they were used to begin with, with many ships still carrying them but only for very specific situations rather than general use.

Function and Design

The LCA is made up of six transmission and receival stations across the surface of [Nesha Prime \(Planet\)](#), these stations are each disguised as various other buildings such as observatories and weather stations to avoid detection. These stations communicate with their counterparts on [Levia \(Planet\)](#) while the Shade Field is active to allow the planet access to information from outside the barrier and to coordinate movements with units outside the planet. Each station on Nesha Prime is angled very precisely using calculations from the planets rotation so that once every 2 hours one station will have a short five minute window to communicate. Using this method the planet can send communications through the field without having to use allignment tracking.

Appearance

Each station has a large underground bunker attached for staff quarters as well as housing a large [Lunabaren Reactor](#), this reactor provides all the power required for daily operation as well as operating the transmitter and receiver when sending signals.

Each station is made up of two major components, the transmitter and receiver. The transmitter resembles a large cannon barrel which houses a powerful laser emitter with focusing lenses at the

opposite end to concentrate the beam when it is fired. The receiver is a shorter, wider barrel mounted to the side of the main laser emitter, making it easy to align with other stations.

The stations themselves are built like most other buildings with a more reinforced structure to prevent damage during the endless storms of Nesh Prime and any natural events. The only portion designed to withstand munitions and attacks is the underground bunker beneath each station.

Availabiity

This technology is known only to the very upper echelons of Neshaten military and is not distributed or sold or even spoken about without every person in the sound proofed room having a full background check done on them.

OOOC Notes

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