MIKO Electronics Suite

An Integrated Electronics System produced by the Yugumo Corporation. It was originally designed by the Satori Ascendant Electronics division of Motoyoshi Fleet Yards in YE 30.

About The MIKO Electronics Suite

In YE 30, Satori Ascendant Electronics finalized the designs for the MIKO Electronics Suite, the planned successor for the Kessaku Systems on Motoyoshi Fleet Yards ships. The concept began prior to the United Outer Colonies declaration of independence, but was accelerated by the need for a capable electronic suite after the Yamatai Star Empire was given their systems back.

Motoyoshi Fleet Yards along with their parent company, NovaCorp employed several of the former Kessaku Systems technicians that remained behind in the United Outer Colonies Peacekeeping Forces after the split which helped with the adjusted timetable.

In YE 42, after the remains of Motoyoshi Fleet Yards were absorbed into the Yugumo Corporation, it was decided that the MIKO Electronics Suite would be deployed as the Electronics Suite on civilian vessels and products produced by the company. The system's software was given a micro-update to ensure it was compatible to provide connections to SYNC and the civilian access level of PANTHEON.

In Yamataigo MIKO refers to priestesses whom serve as conduits between man and god.

Naming

MIKO generally takes on the name of the ship or a name selected by the ship's owner.

MQCS:Modular Quantum Computer System

MIKO is a Modular Quantum Computer System, or MQCS; It starts with rather simple quantum computer core that can be expanded by the addition of other modules. The core and its modules all run the SHRINE operating system (SHRINE-OS). Instead of being a system which scales depending on ship size and such, the Computer Core instead is upgradeable with puzzle-like module pieces to add to its capabilities. The bigger the ship, the larger the system ought to be able to be. Each module is generally made to fill specific functions and tasks so to put an emphasis on specialty in a base or ship's design and function; for example, a scout ship should be equipped with modules enhancing its detection and electronic counter measure capabilities; and a battleship should have the ability to serve its command role with powerful communications and tactical systems.

Non-Sentient Artificial Intelligence

For systems with at least the core plus one additional module.

Although capable of designing a sentient system, the reminders of the incident on Taiie no Iori where a KAMI system went on a killing rampage, purposefully lead the Satori Ascendant Electronics designers to select a non-sentient AI. Although non-sentient, the SHRINE-OS, based roughly on data from the digital mind functions of the NH-22C Yamataian does a good job at emulating it. The AI can manifest itself as a volumetric image anywhere on the base, vessel, or other application it is applied to. Its personality matrix can be altered to cater to the needs of the application as well.

Interfaces

Superconductive Quantum Interface Device (SQUID)

A interface found on several NovaCorp products, such as the No-C1-1b - Mersina General Cruiser it unobtrusively reacts to the thoughts of the user. It can detect any and all movements the brain wishes to make, and react on them significantly faster than standard nervous impulse. The SQUID uses an electromagnetic manipulator system to communicate with the pilot, allowing the ship, base, etc, to serve as an extension of the self. The computer telepathically inputs data in to the user's brain, including the visual data from visual sensors, and it can creates the effect of a HUD or display in the user's brain.

[CORE]:The MIKO Core

When alone the MIKO Quantum Computer Core has several functions and capabilities. Stand-alone the [CORE] is ideally used in power armor and smaller scale applications. It can be clustered with other [CORE] and modules to expand its power and specializations.

Has limited ability to:

- calculate logistical, navigational or tactical solutions.
- coordinate and manage systems.

Its ability can be increased by:

- the addition of more core units in a cluster.
- the addition of modules.
- communication with the units on other ships, bases or drones.

Available functions of the basic [CORE] suite:

Sensors

- **Default Foward Mount:** Variable Wide-band Imaging Clusters and Electromagnetic and Gravimetric Sensors.
- **Default Aft Mount:** Variable Wide-band Imaging Clusters.

Communications

- **Default Comm:** Radio

Other

- GATEWAY-L Logistics Software

Modules

Add-ons that when paired with the MIKO Core, increase it's capabilities and power. All modules run the SHRINE-OS.

[Patrol]

Ideal for patrol ships, and planetary defense ships.

[Patrol] is an add on quantum computing module which is a mainly combat geared package which improves a MIKO's capability in handing weapon systems, improved targeting sensors as well as added equipment to provide increased survival in combat, including a small increase to evasion capabilities and a more sizable augmentation in attack prediction in order to anticipate threatened areas of a ships shielding and help them “brace for impact” to improve their effectiveness and limit penetrations.

Includes in addition to systems of the core unit:

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters
- Electromagnetic and Gravimetric Sensors

Omnidirectional Arrays:

- Distortion/Subspace Sensors

Forward Special Mount:

- Neutrino Telescope

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Electronic Warfare and Disruption Systems

- EM-Full Spectral Pulse

Other

- Attack Prediction Suite

[Tactical]

[Tactical] is a package dedicated to warfare. It handles large arrays of weapon systems with powerful targeting sensors whom help compensate for ECM and prediction avoidance to a degree. Passive Electronic Defense and prediction system increase the ship's capability to evade attacks and to reinforce

shielding against assault dramatically.

Includes in addition to systems of the core unit:

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters
- Electromagnetic and Gravimetric Sensors

Omnidirectional Arrays:

- Distortion/Subspace Sensors

Forward Special Mount:

- Neutrino Telescope
- Ionized Radiation Sensors

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Electronic Warfare and Disruption Systems

- EM-Full Spectral Pulse
- Phasic Wave Emitter

Other

- Attack Prediction Suite
- Evolutionary Targeting System

[Scout]

[Scout] is an add on quantum computing module package dedicated to detection and electronic countermeasure. It offers good sensor ranges, medium-range communication systems better for the use of quick, hard-to-intercept transmissions and advanced Electronic Attack, Support and Defense functions.

Includes in addition to systems of the core unit:

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters *(Boosted to 3 AU)*
- Electromagnetic and Gravimetric Sensors *(Boosted Optimal Range to 3.5 LY, effectiveness drops off at 5.0 LY)*
- Neutrino Telescope
- Infrared Spectrometer *(Boosted Optimal Range to 3.0 LY, effectiveness drops off at 3.5 LY)*

Omnidirectional Arrays:

- Distortion/Subspace Sensors *(Boosted Optimal Range to 1.5 LY, effectiveness drops off at 2.0 LY)*

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Electronic Warfare and Disruption Systems

- EM-Full Spectral Pulse
- Subspace-encased Electrogravitic Pulse Projector
- Phasic Wave Emitter
- Distortion Pulse

Other

- Attack Prediction Suite

[Diplomatic]

[Diplomatic] is a package which holds mainly more powerful communication systems to help keep in touch with governments, hold a variety of options for environmental control and has an excellent memory database so to help store extensive translation software, large informational libraries for referencing. Ideal for most vessels whom are to hold ambassadorial/administrative roles.

Includes in addition to systems of the core unit:

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters

Forward Mount:

- Electromagnetic and Gravimetric Sensors

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Other

- Language Translation Package

[Support]

[Support] is an administrative package meant to help on the level of logistic coordination of a large

number of assets such as cargo in a fleet. Provides the equipment needed to command-and-coordinate a large number of ships along with shuffling the information for logistics and personnel.

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters

Forward Mount:

- Electromagnetic and Gravimetric Sensors

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Other

- Gateway-M Logistical Management Software

[Science and Explorer]

[Science] has mostly noncombat application and is meant to help surveying, charting and scanning at long range. It involves not only high energy detection sensors, but also scanning capabilities which can help in remote lifeform scans, planetary and astronomical analysis, EM scanning, subspace field variance and so on.

Includes in addition to systems of the core unit:

Sensors

Dorsal, Ventral, Aft, Forward, Starboard and Port Expansion Mounts:

- Variable Wide-band Imaging Clusters *(Boosted to 3 AU)*
- Electromagnetic and Gravimetric Sensors *(Boosted Optimal Range to 5.0 LY, effectiveness drops off at 6.5 LY)*

- Neutrino Telescope
- Infrared Spectrometer *(Boosted Optimal Range to 4.0 LY, effectiveness drops off at 4.5 LY)*

Omnidirectional Arrays:

- Distortion/Subspace Sensors *(Boosted Optimal Range to 2.5 LY, effectiveness drops off at 3.0 LY)*

Communications

Internal Systems:

- Fiber Optic Network
- Emergency Sound-Powered Telephones.

Additional Systems:

- Laser Communications.
- Hyperspace Communications.

Combining Modules

There is sometimes the need to combine modules some examples:

For example a Battleship may have the [Tactical] and [Support] Module, the ship would have the highest values from the modules.

A Scout ship may have the [Patrol] and [Diplomatic] modules, the ship would have the highest values and components from each of the modules.

OOC Notes

Authored by Fred and approved by Wes on Apr 3, 2008 [1)]

Products & Items Database	
Product Categories	computers, electronics, subsystems
Product Name	MIKO Electronics Suite
Nomenclature	Type 42 MIKO Electronics Suite
Manufacturer	Motoyoshi Fleet Yards
Year Released	YE 42

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https://stararmy.com/roleplay-forum/index.php?threads/miko-electronics-suite.1967/