

Sorakagami Aerospace Operations Suite

First introduced in [YE 44](#) to satisfy all the requirements of the [Next Gen Fighter Program](#) in a single package. In [Yamataigo](#), *sorakagami* (空鏡) means “sky mirror,” evoking the evening sky at sunset, and referencing that it is an aerospace-operations extension of [KAIMON's Kagami Integrated Sensor System](#).

Year of Creation	YE 44
Designer	Yugumo Fleetworks, KAIMON/Ascendant
Nomenclature	See: Nomenclature Catalog
Alt. Nomenclature	N/A
Manufacturer	Yugumo Corporation
Fielded by	Yugumo Corporation
Availability	Mass Production
Price	Varies

History

Description

The exceptional computing powers of the [KAIMON](#) system allow the it to easily host a wide array of additional sensor and electronic warfare systems. The [KAIMON's](#) [sensor-fusion-first](#) interface delivers the enormous amount of data collected by the craft in pertinent, actionable, distraction-free format.

Compatibility

A plaform must have [KAIMON](#) computing, communications, and sensors as prerequisites for compatibility.

Cost

The Sorakagami Aerospace Operations Suite has cost that varies by application. It is standard on small craft^{[1\)](#)}, or on larger craft intended to serve as a carrier^{[2\)](#)}.

Tier Group	Factory Cost	Retrofit Cost
Personnel (1-3)	1000 KS + 1200 KS/Tier	1250 KS + 1500 KS/Tier
Armor (4-6)	1600 KS + 1800 KS/Tier	1750 KS + 2100 KS/Tier
Mecha (7-9)	2000 KS + 2400 KS/Tier	2500 KS + 2800 KS/Tier
Starship (10-12)	2400 KS + 3200 KS/Tier	2750 KS + 4000 KS/Tier
Capital Ship (13-15)	3600 KS + 4200 KS/Tier	4200 KS + 5400 KS/Tier

Usage


An add-on module for [Yugumo Corporation](#) vessels with [KAIMON](#), system is designed to facilitate small craft operations by merging traditional aerospace systems with spacefaring technology.

Features and Capabilities

The *Sorakagami* has a range of features and capabilities pertaining to small craft aerospace sensing. All of these additional systems have tight, two-way integration with the default [KAIMON Kagami Integrated Sensor System Combined Sensor Palettes](#), able to take advantage of, and augment, the [KAIMON](#) system's robust battlespace awareness and coordination, data sharing networks.

Additionally, the system adds calibration modes to the host platform's antigravity, artificial gravity, and inertial dampening systems to decrease G-force burdens on the pilot and crew for high-speed maneuvering in both atmospheric and space flight.

Integrations


The *Sorakagami* has  [plug and play](#) compatibility with several external packages, bridging them with [KAIMON](#) and integrating them with its own sensors. In particular, *Sorakagami* has particularly tight integration with [ELECTRA](#) and [Umikagami Subsurface Operations Suite](#).



Third-Party








These vendor systems may be installed on a *Sorakagami* with minimal labor and zero configuration:

- [OH-V1-E4400 sensor package](#).
- [Ke-V9-E3301 Unified Tactical Sensor Array / FTL Ansible](#).
- [Ke-T8-E3102 Tactical Sensors Package](#).
- [Ke-O4-E4500 Life Form Scanner](#).

Radar Systems











As  [radar](#) is the sensing system of choice at the ranges and speeds of atmospheric flight, the *Sorakagami* possesses advanced RF-spectrum sensors that current, primarily spacefaring vehicles may no longer have:

-  [Terrain-following radar](#) and  [radar altimeter](#).
- [Joint precision approach and landing system \(JPALS\)](#).
- [Ryu Heavy Industries Visual Synthetic Aperture Radar \(ViSAR\)](#).

- Multi-domain signal processing.
-  [Pulse-Doppler](#) mode.
-  [Ground-penetrating](#) mode.
- Both  [stationary](#) and  [moving](#) target indication.
-  [Look-down/shoot-down](#) capability.
-  [Atmospheric weather surveillance radar](#).
- Enhanced  [IFF](#).



Imaging and Visualization

In addition to RF-based sensors, the *Sorakagami* has a full suite of broad-spectrum audiovisual sensors, that work in conjunction with both the radar systems and the base [Kagami ISS](#).

-  [IRST](#)/ [FLIR](#).
-  [Thermographic Imaging](#).
-  [Lidar](#) arrays:
 -  [Flash](#) and collimated/continuous scanning modes.
 - Downward-looking (altimeter), upwards looking (atmospheric), and lateral ( [collision avoidance](#)).
 -  [Terrain Countour Matching](#).
-  [Sodar wind-speed measurement](#).
- Real time, 360- [Steradian](#) multi-spectrum audio/video capture, processing, and analysis.
- Visual/audio  [IFF](#) confirmation.

Battlespace Communications, Command, and Control

Only available on [Starship and Capital Ship Tier craft](#), this data-sharing feature operates in both hub-and-spoke and ad-hoc-mesh sensor and command networks, to increase the situational awareness of all craft in the battlespace. It provides not only data sharing, but data processing sharing, load-balancing and distributing processing and analysis tasks among the battlegroup to increase the speed and resilience of analysis. All [KAIMON](#) involved in an operation can (and should) be made subordinate nodes of the system, but *Sorakagami*-equipped craft benefit the most. Additionally, *Sorakagami* BCCC vessels can be subordinate or peer nodes of each one another, allowing for varying network topologies and hierarchical structures.

This feature greatly increases the  [air traffic control](#) of carriers and command ships by leveraging the *Sorakagami's* sensor features for  [ATC operations](#).

Aerodynamic Shield Optimization Protocol

Sorakagami includes software upgrades that allow for the shaping of a craft's shield systems into optimal aerodyne geometries for subsonic, transonic, supersonic, and hypersonic travel, tailored to the sensed external atmospheric fluid environment and airspeed in realtime.

Star Army Small Aerospace Operations Package, Type 44

The [Star Army of Yamatai](#) variant of the *Sorakagami* features a a few restricted systems not available to the public:

- [PANTHEON](#) compatibility and integration.
- [SACNES Interface](#)
- Deeper [SPINE](#) integration.
- [THOUGHT Software Package](#).
- [THOUGHT Immersion System](#).

Nomenclature Catalog

Catalog of [Standard Product Nomenclature System](#).

Taka-Class Shuttle	Yu-T1-E4402
Mōkin-Class Patrol Craft	Yu-V1-E4402
Amatsubame-Class Runabout	Yu-T2-E4402
Mozu-Class Starfighter	Yu-V2-E4402
Sagi-class Heavy Lift Transport	Yu-T3-E4402
Washi-class Cutter	Yu-V3-E4402
Misha-Class Explorer	Yu-Y1-E4402
Tanya-Class Expeditionary Heavy Cruiser	Yu-C1-E4402

OOC Notes

[Yuuki](#) created this article on 2022/10/29 17:52. [Approved](#) as a sub-article.

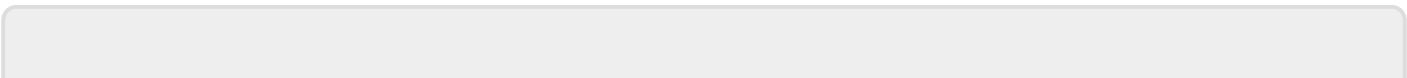
Products & Items Database	
Product Categories	subsystems
Product Name	Sorakagami Aerospace Operations Suite
Nomenclature	See Nomenclature List
Manufacturer	Yugumo Corporation
Year Released	YE 44

1)

[Tier 9 \(Heavy Mecha\)](#) or lower

2)

Like the [Tanya-Class Expeditionary Heavy Cruiser](#)



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