

Star Army Combined Sciences Laboratory

A modular, moderate-sized combined sciences laboratory for [Star Army of Yamatai](#) that became available in [YE 43](#).

History and Background

In early [YE 43](#), [Ketsurui Zaibatsu](#) began to address modernization and updates to the tools and platforms used by [Star Army Science Officer](#). In the past, these officers were forced to share space with [Star Army Medical](#). The need for a modular and adaptive laboratory for [Star Army Science Officers](#) continued to come up as peacetime approached and the roles of the [Star Army of Yamatai](#) adapted to the times. While larger ship classes and Star Fortresses could have large single-purpose laboratory space, the need for a combined modular space for smaller and moderate ship classes was answered with the Star Army Combined Sciences Laboratory. The design brought together a collaboration of in-service [Star Army Science Officers](#), and designs from [Kessaku Systems](#), [Star Army Research Administration](#) and [Ketsurui Zaibatsu](#).

While modular and compact in terms of space, the addition of this compartment often means the sacrifice of other compartments on smaller ship classes. However, it provides a home base for [science officers](#) to conduct experiments and research and fields specialty equipment that assists with the completion of several mission profiles for the [Star Army of Yamatai](#).

Combined Sciences Laboratories have:

- High-security [Forcefield-Nested Isolation Doors](#).
- Independant [Emergency Systems](#) and [Life support and Environmental Systems](#).
- Dedicated [Aether](#) power systems.
- Compartmentalized [Nodal Liquid Conduit System](#) and [Universal Hemosynthetic Fabrication System](#) [Type 43](#) access.

Combined Sciences Laboratory	
Year of Creation	YE 43
Designer	Ketsurui Zaibatsu , Star Army Research Administration and Kessaku Systems
Nomenclature	Type 43 Interior Compartment
Alt. Nomenclature	None
Manufacturer	Ketsurui Zaibatsu
Fielded by	Star Army of Yamatai Only
Availability	On-Demand Production

Note: The size of the laboratory and the number of alcoves are dependent on the ship class and the amount of room that is selected. Since most small ships will have to sacrifice other compartments, each lab is custom built to fit the ship-class it is being placed on. All equipment and stations are completely modular.

Appearance

In general, the Combined Sciences Laboratory is a sleek, uncluttered, functional environment that generally is worked into the natural sculpting of the hull type they are placed within. The center of the room is a raised circular work platform with a cooperative modular workspace and central module. Smaller alcove workspaces and storage line the exterior space of the room in a fan-like formation to utilize as much of the space as efficiently as possible. The largest alcove is generally used as office space for the department head or highest-ranking [Star Army Science Officer](#).

The color scheme matches the standard [Star Army of Yamatai](#) cornflower blue paneling with black polished countertops and floors.

Mission Focus Platform

The central circular platform is used for the priority science being conducted at the time. It is generally swapped in or out depending on the mission of the [Star Army of Yamatai](#) ship or facility at the time.

Stations

The platform has three complete lab bench stations with polished black non-reactive countertops, under-counter storage, [SPINE](#) equipped laboratory chairs padded with [hemosynthetic](#) flesh for adjustable ergonomic comfort. The outward-facing seating allows for at-station focus, while the open concept promotes collaboration. Each station has access to traditional controls (for non-[Nekovalkyrja](#) crew), [isolated volumetrics](#) for visualization and presentation, and a stand for the [Type 43 Science Pad](#). Overhead units suspend [sensor pods](#) for scanning purposes.

Under-counter storage includes room for equipment such as:

- Retort Stands with multiple clamps and ring-holder accessories.
- Non-Reactive Glassware including [Interfaced Glassware](#) like beakers, flasks, test tubes and vials. Glassware is stored in secured [Yarvex Foam](#) inserts to prevent breakage.
- Nano-scale laboratory-grade tools produced in the [fabricators](#), like 🧰 [forceps](#), 🧰 [tweezers](#), 🧰 [tongs](#), glass stirring rods, and other handheld tools.
- Counter mounted, Interior-grade [Scalable Graviton Beam Projector](#) for the movement of hazardous substances or heavy objects. (Also used in assistance of cleaning up broken glassware.)
- [Hemosynthetic](#) filter kit, and [Hemosynthetic](#) decontamination and recycling kit.
- Forcefield Projector for low-level containment.
- Protected Storage of needed chemicals.

Central Module

The central module can be switched out depending on the use and mission of focus.

Combined Science Laboratory Central Modules	
Type 43 Heavy Containment Module	A transparent Zesuaium containment pod on an adjustable telescopic platform. It comes with an assortment of PANTHEON assisted robotic arms, protected reach-in Yarvex glove interface with a sealable blast shutter, secured-access airlock, forcefield reinforcement, and an independent Hemosynthetics decontamination system. Interior-grade Scalable Graviton Beam Projector for the movement of hazardous substances or heavy objects. (Also used in assistance of cleaning up broken glassware.) and its own internal sensor pod .
Type 43 Low-Level Containment Module	An adjustable telescopic platform equipped with forcefields to contain samples. Similar to the field-deployed inside of a Standard Star Army Power Armor Bay , it separates personnel from equipment but allows reach-in access.
Type 43 Volumetrics and Visualization Platform	A platform with volumetric projectors designed to display things like star maps, scanner data, and other information. It is capable of Solid Volumetrics .
Upright Hemosynthetic Reconstruction Tube	The platform can also support one, or a cluster of four vertical-positioned Hemosynthetic Reconstruction Tube .
Dedicated PANTHEON module	Generally used for the computer sciences. A lab will have an in-network or independent PANTHEON hierarchy system for extreme number crunching or programming purposes. This setup is sometimes used by Star Army Information Technology .

Alcove Stations

The Alcove Stations are set up very similarly to the stations on the central platform but they have a little extra room and workspace. The number of alcoves depends on the class of ship the laboratory is on (Small Ships have less room). They are also set up for more of an autonomous work profile with less focus on collaboration because the default seating position faces the exterior walls of the combined laboratory. Each station has access to traditional controls (for non-[Nekovalkyrja](#) crew), [isolated volumetrics](#) for visualization and presentation, and a stand for the [Type 43 Science Pad](#). Overhead units suspend [sensor pods](#) for scanning purposes.

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- Forcefield Projector for low-level containment.
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Supervisor's Alcove

The Supervisor's Alcove station is configured so that the default seating arrangement is outwards-facing to allow for visual supervision of the entire Combined Sciences Laboratory. It is reserved for the highest-ranking [Star Army Science Officer](#), Department Head, or Project Leader depending on the ship or base it is located. It has all the features of a normal alcove station but also includes two inwards facing chairs on the opposite side of the desk to facilitate meetings, ceiling drop-down [Volumetric Windows](#) to display laboratory priorities and assignments.

OOC Notes

[Andrew](#) created this article on 2021/01/23 06:34.

- [Approval Thread](#)

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