

Star Army Science Pad and Kit Type 43

The Type 43 Science Pad is a tool for [Star Army Science Officers](#) that was introduced in [YE 43](#). It has connected and interfaced accessories that form a complete kit. It replaces the [Star Army Science Kit, Type 31](#) released in [YE 31](#).

History and Background

With the end of the [Kuvexian War](#) in [YE 43](#), it was recognized that the toolkit for [Star Army Science Officers](#) would need to be modernized. The [Star Army Science Kit, Type 31](#), which included a [Star Army Science Scanner, Type 31](#), had been utilized since [YE 31](#). The design of the Type 43 Science Pad would hybridize the function of the [Star Army Science Scanner, Type 31](#), the [Star Army Datapad, Type 33](#) and, the [Isolated Computer Pad](#). It would also provide functions that none of those previous designs allowed and was to have seamless integration into the [PANTHEON](#) heirarchy and be capable of independent function for away missions. The design would come as a collaboration from [Kessaku Systems](#) and [Ketsurui Zaibatsu](#).

It was decided that the compact datapad would need to have a durable design with the ability to connect to a series of other tools and accessories. [Star Army Science Officers](#) were often called upon to perform various analysis from molecular to the chemical as well as store research notes, develop presentations and reports and collaborate with other scientists across the [Star Army of Yamatai](#) through communications and [PANTHEON](#). Additional needs that were identified were the use of volumetric visualizations to aid raw analysis, especially for non-[Nekovalkyrja](#) officers.

The Type 43 Science pad would be the first of the tools made to be part of a new Star Army Science Kit. As development proceeded and accessories were crafted, the entire pad and accessory kit was assembled.

Type 43 Science Pad and Kit	
	
Year of Creation	YE 43
Designer	Ketsurui Zaibatsu and Kessaku Systems
Nomenclature	Type 43 Science Pad
Included	Type 43 Nodal Capsule Sphere
Included	Type 43 Science Kit Vials, Envelopes, and Accessory Pack
Alt. Nomenclature	None
Manufacturer	Ketsurui Zaibatsu
Fielded by	Star Army of Yamatai Only
Availability	Mass Production
Price	8,200 KS

The Kit Case

The Kit is contained within a 35cm x 30cm x 20cm carrying case with handle, that has the similar but much smaller scale, construction method as the [Durandium Alloy Standard Starship Cargo Containers](#). The interior contains a [Yarvex Foam](#) frame made to form around the components and is lined with [Yarvex](#).

Alternative Backpack

Alternatively, the kit can be carried in the [Star Army Backpack](#) using [Yarvex Foam](#) inserts to protect the

gear.

Scientific Interface Pad



The Scientific Interface Pad is the base device of the Type 43 Science Pad. It is a sleek, polycarbonate-coated datapad that is completely waterproofed and sealed for extreme climate and condition operation. It has a compact-quantum core computing system that has a micro-gravity accelerated particle memory with a full encrypted wireless uplink to [PANTHEON](#)'s hierarchy of systems.

The frame is wrapped in [Dataweave](#) for integrated projected [volumetric](#) visualization. The interface itself is a form of tactile-activate volumetric which allows for adaptable customization by the user to include user preferences, much like larger [volumetric](#) interactives on [Star Army of Yamatai](#) ships. These features allow for the easy creation of presentations and visually assisted analysis when in the field.

The base system has several integrated scanning functions such as those listed below, with a maximum scanning range of fifty meters. These scanners are often assisted or extended with the addition of accessories and add-ons. The scanner apparatus is forward facing.

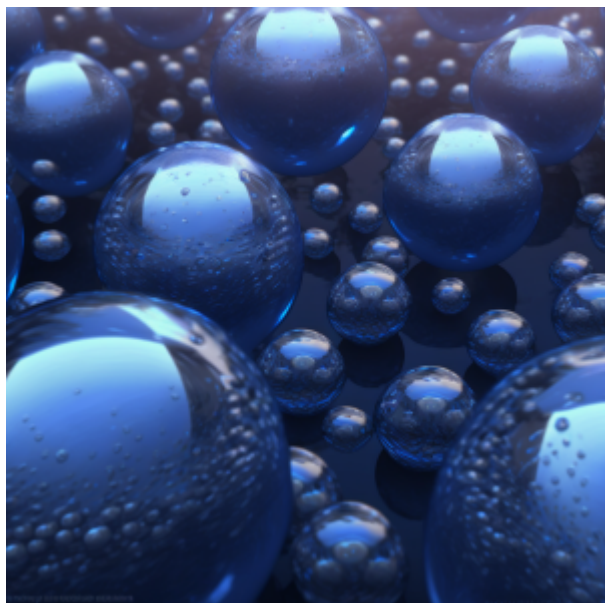
- Lifeform Scanner - provides comparison scans with on file known [Species](#) and includes a heuristic function for the scanning of new lifeforms.
- Chemical and Molecular Analysis Scanner - Provides information about the chemical and molecular structure of scanned compounds. (This feature has limited functionality without accessories).
- Scalar Field Scanner - Scans the emission strength and frequency of scalar energy.
- Spectral Analysis Scanner - Scans the emissions of the light spectrum and radiation.

The pad is capable of performing various computing tasks from word processing to the creation of visual presentation aids. It has several [Star Army of Yamatai](#) specific programs for the creation of standardized reports and communications for collaboration and interaction with peers and the chain of command. The pad has a rechargeable capacitor system that can operate 24 to 48 hours without a recharge, it recharges wirelessly while present on a [Star Army of Yamatai](#) ship or base.

Other Information:

- Dimensions: 314 x 207 x 24.5 mm
- Weight: 0.125 kg

Nodal Capsule Sphere



The Nodal Capsule Sphere is an accessory included with the Type 43 Science Pad.

The Nodal Capsule Sphere is a large fist-sized container filled with bearing (8mm) sized nodal support drones. They are very similar in structure to [Nodal Support Bits](#) but they are not weaponized and their programmed task is to perform intensive scans of a local field of up to 10 square kilometers. The Sphere contains a small power capacitor that charges the support drones for up to four hours of use outside of the sphere. Each sphere holds 75 nodal support drones.

The small support drones have capture chambers which they can use to take samples of solids, liquids, and gases for more intensive analysis. The drones are also used for scans in hard to reach locations, hostile environments, and other applications where personnel either can't reach or are at risk. The nodal support drones are programmed to return to the base sphere, report results, and in the event that they are compromised, they will self-destruct to prevent manipulation of their technology. Replacement drones are produced in fabrication facilities onboard ships and bases.

Interfaced Sample Vials and Yarvex Envelopes

For larger samples, the Kit contains two sizes of standard sterile vials and three [Yarvex](#) envelopes. The vials have remote scanning tools integrated into the lids for in-depth chemical and molecular analysis inside of the vials. This also includes remote electron microscopic scanning and spectral analysis tools.

The vials included in the kit case are:

- 6 x 50mL Sample Vials
- 3 x 250mL Sample Vials
- 3 x 500mL [Yarvex](#) Envelopes.

Also included are:

- Two small sample shovels.
- 1x 5-pair package of [Yarvex](#) gloves.
- 1x 10pkg of 5mL non-reactive disposable pipettes.
- 1 x pair of 12cm sample forceps.

Special License

In [YE 45](#), a special license was granted to the [Yugumo Corporation](#) to produce a limited quantity of the Science Pad and Kits replacing the [PANTHEON](#) uplink with the [KAIMON](#) equivalent.¹⁾

OOC Notes

[Andrew](#) created this article on 2021/01/22 18:06.

- Art updated by [Andrew](#) using Midjourney Bot 2022/11/08. Science Pad Uplifted by [Yuuki](#)
- [Approval Thread](#)

Star Army Logistics	
Supply Classification	Class L - EQUIPMENT PERSONAL ESSENTIAL & UNIFORMS
First Used	YE 43
Products & Items Database	
Product Categories	electronics, kits, military equipment, scientific
Product Name	Star Army Science Pad and Kit
Nomenclature	Type 43
Manufacturer	Ketsurui Zaibatsu
Year Released	YE 43
Price (KS)	8,200.00 KS

¹⁾

<https://stararmy.com/roleplay-forum/threads/product-license-request-yugumo-corporation-to-ketusuri-zai-batsu.70974/>

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