

ARTOME S1

User manual



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IMPORTANT SAFETY








Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death.

- Follow all the instructions to avoid electric shocks or other hazards that may result in property damage and/or severe or fatal injuries.
- To use this product, you must fully read and understand the contents of this user manual
- To connect Artome S1 with additional appliances, such as external microphones, you must fully read and understand the contents of this user manual.
- Keep all safety information and instructions for future reference and pass them on to the next users of the product.












Symbols printed on the product















	Risk of electric shock Electrical voltages inside the Artome unit can cause a fire, electrical shock, or severe injury.
	Caution Do not open the Artome User Panel, Connection panel or Power panel. Never attempt to disassemble or modify the Artome unit (including installed projector). For service, refer to qualified service personnel.
	Class 1 Pluggable equipment Type A The equipment must be connected to an earthed mains socket-outlet.
	Waste Electrical and Electronic Equipment (WEEE) Dispose the product correctly at the end of its life to help protect the environment. Please refer to your local regulations for proper disposal instructions.
	Read user manual Read and understand the manual and its safety instructions before using this product.
	CE mark Declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation.
	FCC mark Declaration that the electromagnetic radiation from the device is below the limits specified by the Federal Communications Commission and the manufacturer has followed the requirements of the Supplier's Declaration of Conformity authorization procedures.

Symbols used in this document

				
Caution	Risk of electric shock	Mandatory action	Do not do	Do not disassemble
				
Do not use in wet areas	Do not wet	Don't place on an uneven surface	Do not spray	Disconnect from the power outlet

Cautions and warnings

	<p>Unplug Artome from the outlet and refer all repairs to qualified service personnel in the following situations:</p> <ul style="list-style-type: none"> • Smoke, strange odors or strange noises come out of the Artome unit or the projector inside Artome. • Liquid or foreign objects get inside the Artome unit or the projector inside Artome. • Artome has been damaged. <p>If you continue using Artome as it is, it could cause an electric shock or fire. Do not try to repair the Artome unit yourself.</p> <p>Place Artome near an easily accessible outlet so that the plug can be unplugged immediately if an error occurs.</p>
	<p>Never open the Artome Connection panel or the panel housing the power inlet connector. Never attempt to disassemble or modify the Artome unit (including installed projector).</p> <p>Electrical voltages inside the Artome unit can cause a fire, electrical shock, or severe injury.</p>
	<p>Never plug the Artome to the outlet before the projector is installed and the Artome unit is fully configured. This may harm the product.</p>
	<p>Installation and removal of the projector from the Artome unit must always be carried out by instructed person. If the installation work is not carried out correctly, the product may not operate correctly and it may cause errors in the use of the product. If an instructed person is not available, contact your dealer to carry out the installation.</p>
	<p>This product is intended to be operated only using the voltages listed on the units main power connector or user manual. Operation using other voltages than those indicated may cause irreversible damage to the product and void the product's warranty. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.</p>
	<p>Do not use the projector where it may be exposed to rain, water, or excessive humidity. Fire or electric shock may result.</p>
	<p>If you use the Artome unit in the country where it was purchased, only use the power cord that came with the product. If you use the Artome unit in a country other than where it was purchased, use the correct power cord for that country. Using an inappropriate power cord could result in fire or electric shock.</p>
	<p>Take care when handling the power plug.</p> <p>Failure to comply with these precautions could result in fire or electric shock. Follow these precautions when handling the power plug.</p> <ul style="list-style-type: none"> • Do not overload wall outlets, extension cables, or power strips. • Do not insert the plug into a dusty outlet. • Insert the plug firmly into the outlet. • Do not hold the plug with wet hands. <p>Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it.</p>
	<p>Do not use a power cord that is damaged. Fire or electric shock may result.</p> <p>Follow these precautions when handling the power cord:</p> <ul style="list-style-type: none"> • Do not modify the power cord. • Do not place heavy objects on top of the power cord. • Do not bend, twist or pull the power cord excessively. • Keep the power cord away from hot electrical appliances. • Do not tie the power cord to other cables. <p>If the power cord is damaged, contact your dealer.</p>
	<p>Do not place any containers of liquid or chemicals on top of the Artome unit. Spilling liquid of any kind into the electronics may result in fire or electric shock.</p>
	<p>Do not look into the projector lens when the Artome unit is on. The bright light can damage your eyes. Groups with small children should be especially careful.</p>

	Do not insert flammable or foreign objects into the Artome unit's vents or openings. Doing so may result in fire, electric shock, or burns.
	Do not use sprays containing a flammable gas to remove dirt or dust which is adhering to parts such as the projector lens or fans of the Artome unit. The projector which is installed inside Artome unit becomes hot during use. The gases may ignite and result in a fire.
	Do not use the projector in places where flammable gases or explosive gases may be present in the atmosphere.
	Do not use high pressure air (air compressor or equivalent) to clean the unit. Very high air pressure may damage the unit.
	During projection, do not block the light from the Artome unit's projector. If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction.
	Do not use Artome unit without locking the castors. Earthquake or other cause may move the unit and hit to person or wall or object and may cause severe injury or malfunctioning of the unit.
	Do not move or leave Artome unit on an uneven surface. The product may topple or move on a sloping surface on its own causing an accident and injury.
	Do not sit or lay on the top of the Artome unit. Falling down may cause severe injury.
	Do not use Artome unit when a person is close to it. High sound pressure can cause permanent hearing damage.
	Do not walk behind the product when the power cord is plugged in. A loose cord can cause a fall and serious injury.
	Do not connect video or audio connectors when the Artome unit is on. This may cause high sound pressure which can cause permanent hearing damage
	Always feed external cables through the cable grommet at the bottom of the unit and close the door. Cables may break due to incorrect pressure on the connectors
	Do not store the device without proper protection from dust. The dust may damage the product when it is used again. Use included carton box for storing.
	Do not move the appliance on uneven or bumpy surfaces. The castors may be damaged.

Terms and acronyms

Term or acronym	Description
2.1. audio	Loudspeaker system consisting of two front speakers and a subwoofer for low bass sound.
Active speaker	A loudspeaker with an integrated amplifier.
AEC	Acoustic Echo Cancellation
Bluetooth connection	Wireless short range data connection.
Cardioid microphone	Microphones that pick up sounds with high gain from the front and sides but poorly from the rear.
DSP	Digital Signal Processor. Digital technology to enable versatile sound processing.
HdBaseT	Connectivity standard for transmission of uncompressed very high definition video, digital audio, DC power, Ethernet, USB , and other control communication up to 100 m (328 ft) in length.
HDMI	High-Definition Multimedia Interface. An audio/video interface for transmitting uncompressed video data and compressed or uncompressed digital audiodata.
Keystone effect	The apparent distortion of an image caused by projecting it onto an angled surface.
Phantom power	DC electric power transmitted through microphone cables to operate microphones that contain active electronic circuitry.
Subwoofer	Loudspeaker for low bass sounds.
Ultra-short throw projector	A projector with ultra-short throw capabilities allows positioning it very close to the projection surface (from 10 to 70 cm distance)

Over current protection device

The protective current ratings reflect the overcurrent protective devices provided in the building installation. Ensure that the appropriate devices are in place to meet safety standards.

For equipment intended for use in most countries, the protective current rating of the circuit supplied from the mains is considered to be 16 A. However, different countries have specific variations:

United States and Canada: The protective current rating is considered to be 20 A.

United Kingdom and Ireland: The protective current rating is 13 A, corresponding to the largest fuse rating used in mains plugs.

France: In certain cases, the protective current rating is considered to be 20 A instead of 16 A.

PRODUCT DESCRIPTION

The Artome S1 integrates a high-quality projector and sound system into a portable unit, offering professional AV capabilities with minimal setup required. Designed for flexible use in educational facilities and business environments, the Artome S1 enables hybrid interactions, allowing seamless engagement for both in-person and virtual scenarios.

Intended use

The Artome S1 is designed for use as a local or mobile presentation device. This product features a pre-installed Epson projector for displaying scalable image and a built-in sound system comprising an embedded mixer and an active speaker system.

**CAUTION**

Do not use Artome S1 outdoors. Check the allowed temperature ranges in technical specifications.

The Artome S1 is compatible with the following Epson projector models:

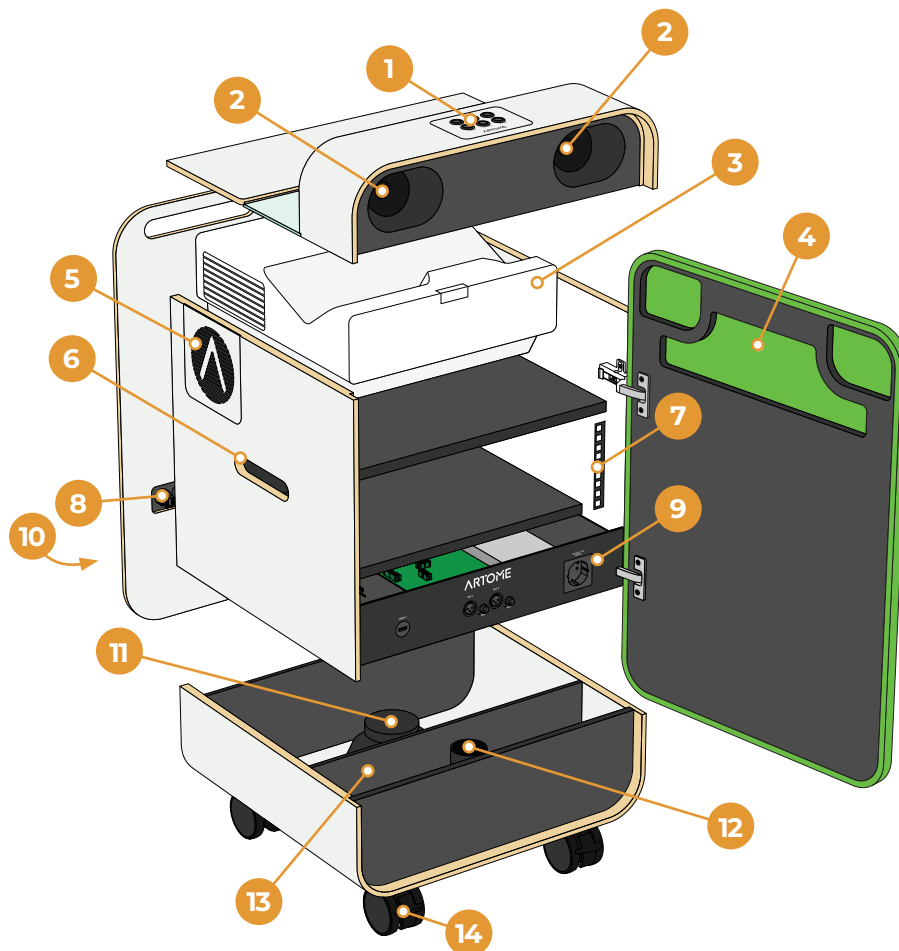
Global:	Epson EB-760W / 770F / 775F
US/Canada	Epson PowerLite 760W / 770F / 775F

The User Guide of the selected projector is provided with Artome S1 if it is included in Epson's package.

**CAUTION**

This cart is intended for use only with Epson 760W / 770F / 775F or Epson PowerLite 760W / 770F / 775F projectors. Use with other equipment may result in instability causing injury.

Product overview



1. Control panel for controlling the Artome and the Epson projector
2. Speakers
3. Epson projector (external device that is sold separately)
4. Push-to-open front door
5. Fan for projector air ventilation
6. Handles for moving the product
7. 19" rack for auxiliary devices
8. Back panel with HDMI and data connections
9. Connection panel with connections for audio audio and video transmission
10. Mains power connection
11. Subwoofer speaker
12. Cable grommet for cable management
13. Storage space for cables and accessories
14. Castors

Video projector

The image features of the Artome S1 are powered by integrated Epson laser projector technology. All these features are accessible through Epson's user interface. However, essential functions such as Projector On/Off, Freeze, AV Mute, and Zoom in/out can be controlled via the Artome S1 user interface. For example, if the projector is activated using the Epson user interface or by a third-party system, the Artome S1 unit detects the action and powers on accordingly.

The Artome S1 ensures proper ventilation for the projector, allowing cool air to enter and warm air to exit through its built-in ventilation system. Additionally, the projector is equipped with a temperature sensor as a safety precaution.

Sound system

The Artome S1 features a built-in active speaker system with two front speakers and a subwoofer, providing a 2.1 audio setup for rich bass. The device also supports plug-and-play connections to microphones. Sound processing is handled by the Artome Digital Signal Processor (DSP) and amplified through the embedded D-class amplifier.

Please note that sound quality may vary based on room size and acoustics. Testing the system in a specific location is recommended.

Wireless connectivity

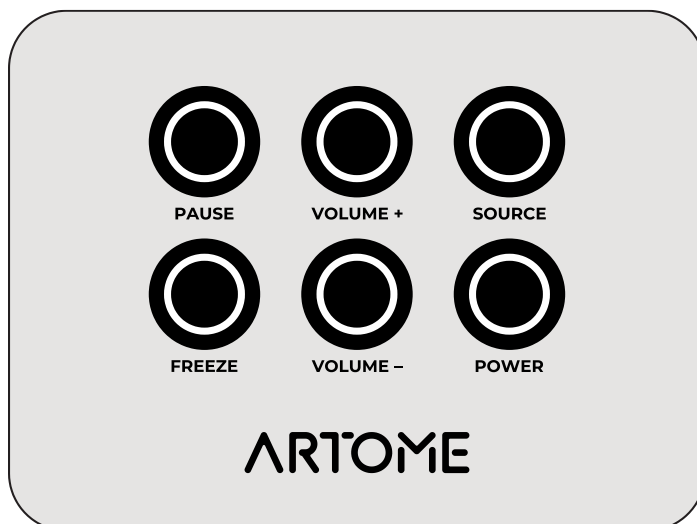
You can use any wireless media streaming device that has an HDMI connection with Artome S1. For more details, refer to the manual of the specific wireless media streaming device you wish to use with Artome S1. If needed, seek recommendations from your company's IT department or an authorized Artome reseller.

USER INTERFACE AND CONNECTIONS

Control panel

With intuitive buttons and functions, the control panel allows for easy operation of the device.

The control panel is situated at the top of the unit.



Button	Indicator	Action	LED	Description
PAUSE		Short press: Pause on / off	On	AV-mute on
		Long press: Activate bluetooth pairing	Blinking	Bluetooth pairing mode active
			Off	AV-mute off
FREEZE		Short press: Image freeze on / off	On	Image freeze active
		Long press: Activate image zoom mode	Blinking	Image zoom mode active. Adjust the zoom with VOLUME +/- buttons.
			Off	Image freeze off
VOLUME +/-		Short press: Adjust volume by 1 digit	Blinks once	Indication of a volume adjustment
		Long press: Continuously adjust volume		
SOURCE		Short press: Change source	On	Audio-only -mode is active. POWER led is also on.
		Long press: Activate Audio-only -mode	Blinking	Transitioning to Audio-only -mode.
POWER		Short press: Power on / off	On	Power on
		Long press: Image settings reset	Blinking	Warming up / cooling down
			Off	Power off

Connection panel

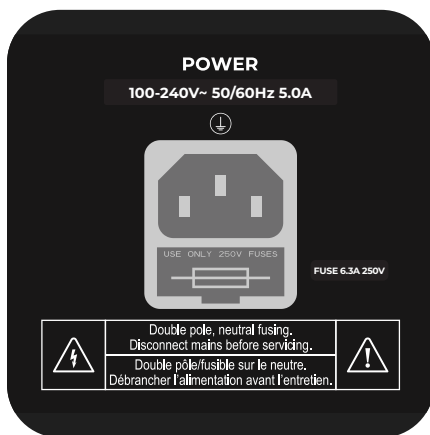
The connection panel contains standard ports for transmitting video and audio data. The control panel is positioned behind the front door. To open the front door, simply press the top left corner to activate the push-to-open mechanism.



Connection	Description
HDMI	Audio and video input
MIC 1 & 2	Connection for a wired microphone or a wireless microphone receiver
GAIN	Mic gain adjustment
POWER SOCKET	Power distribution to peripherals

Power connector

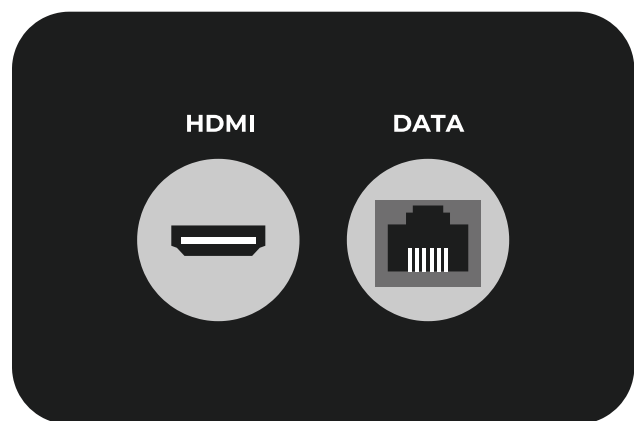
The power connector is located on the rear side of the product.



Connection	Description
POWER	Mains power input

Back panel

The back panel, located on the rear side of the product, features ports for transmitting audio, video, and data signals.



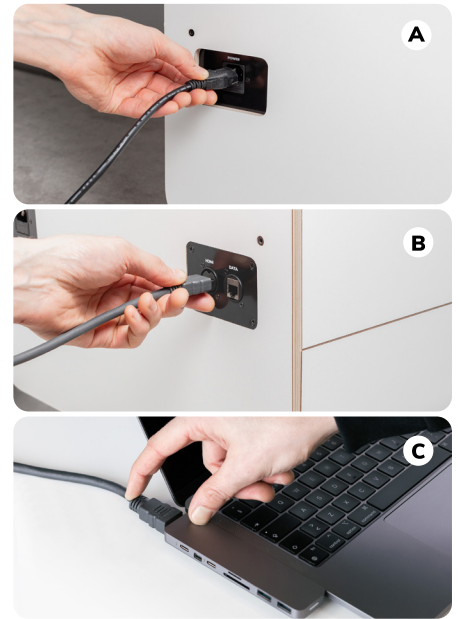
Connection	Description
HDMI	Audio and video input
DATA	Local network connection

OPERATING INSTRUCTIONS

Quick setup

- A. Connect the power cable to the POWER connector on the rear side of the product.
- B. Connect the HDMI cable to the Artome HDMI connector on the rear side of the product.
- C. Connect the HDMI cable to your computer's HDMI port. Use an adapter if necessary.

Artome starts automatically when it detects HDMI from the computer.
If necessary, turn on Artome using the Power button.



Audio-only mode

Turn on Artome. Press the SOURCE button to select the desired source. Now, long-press the SOURCE button to activate Audio-only mode. The projector will shut down, but the speaker system stays on.


Long-press the SOURCE button to turn the projector back on. Press the POWER button to shut down the device.

Power off


Press the POWER button to shut down the device. Afterward, a cool-down period of up to 2 minutes for the projector follows, during which the Artome fans may still be running.

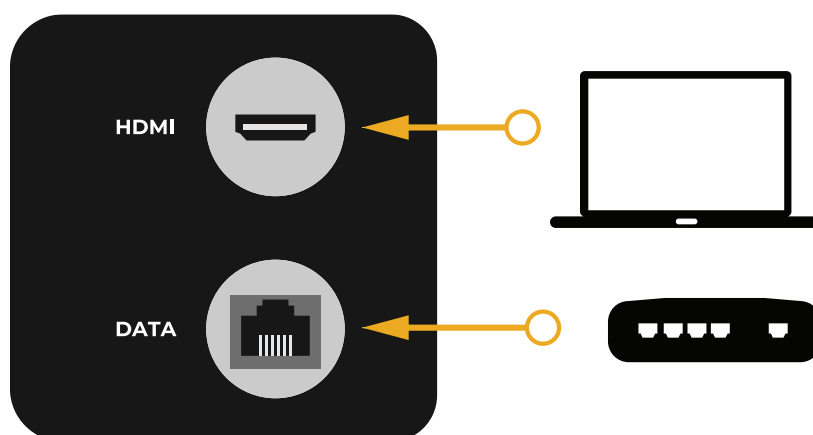
Connecting additional devices to Artome

The Artome S1 serves as a versatile mobile presentation solution and doubles as a rack for additional devices. With its all-in-one design, cabling is streamlined with short dimensions, making cable management effortless.

	<p>DISCLAIMER While this manual showcases sample configurations featuring additional devices, it does not provide instructions on how to utilize those supplementary peripherals.</p>
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Connection	Device
HDMI	Computer image and sound to Artome
MIC 1 & 2	Connection for a wired microphone or a wireless microphone receiver
	The power outlet socket is located inside the product and can be accessed by opening the front door. Ensure that this door is not obstructed and can be easily opened at all times to allow for quick disconnection of the equipment if necessary.



Connection	Device
HDMI	Computer image and sound to Artome
DATA	LAN connection for 3rd-party integration

Microphone

MIC 1 and MIC 2 connections support analog microphones. When selecting a microphone for Artome S1, consider the following:

- Artome recommends dynamic cardioid (or hyper-/supercardioid) microphones to minimize feedback.
- For microphones with cables, input gain is fixed and optimized for dynamic microphones with an impedance of 350 ohms.
- The microphone input does not provide phantom power, so additional power supply is needed for condenser microphones.
- When using rack-mounted wireless microphones, ensure the microphone receiver depth does not exceed 260 mm with the cable, and adjust the gain from the microphone system.

For recommendations on preferred microphones and wireless microphone systems, consult your Artome reseller.

Wireless sharing devices

Wireless sharing technology is not included by default, but the S1 easily connects to any wireless collaboration system via HDMI.



This manual does not contain operating instructions from other vendors. For more details, please refer to additional guides provided by your Artome reseller or IT department.

IMAGE ADJUSTMENT

Unit placement

To project the image fully, avoid placing the Artome S1 next to objects taller than 78 cm / 31 inches. For proper air ventilation, ensure there is at least 15 cm / 6 inches of free space on both sides of the Artome S1 during use.

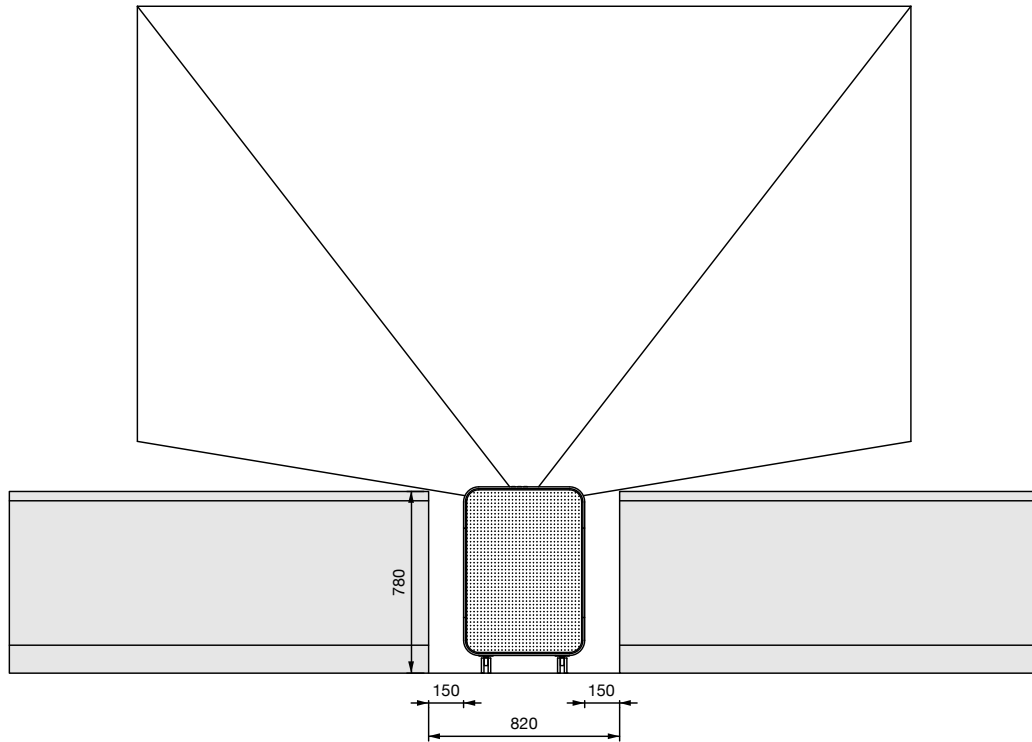


Image size

To increase the image size, move the S1 further away from the projection surface.

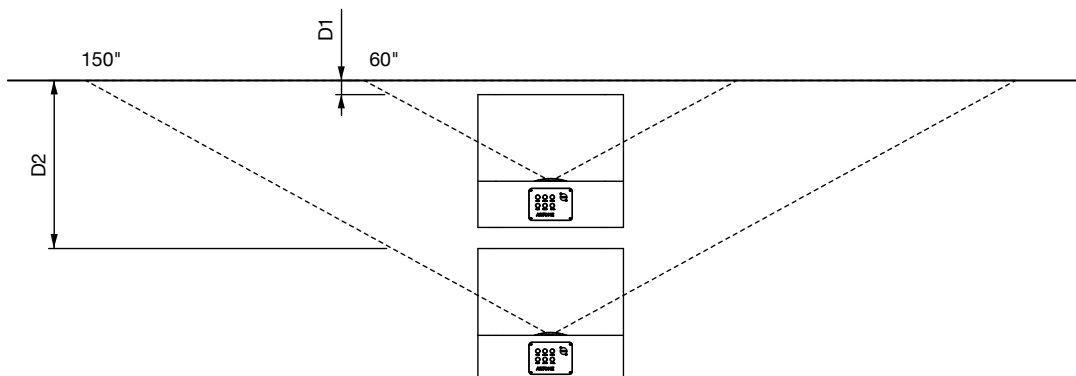


Image size	Distance from the wall
60"	D1 = 5 cm / 2"
150"	D2 = 60 cm / 24"

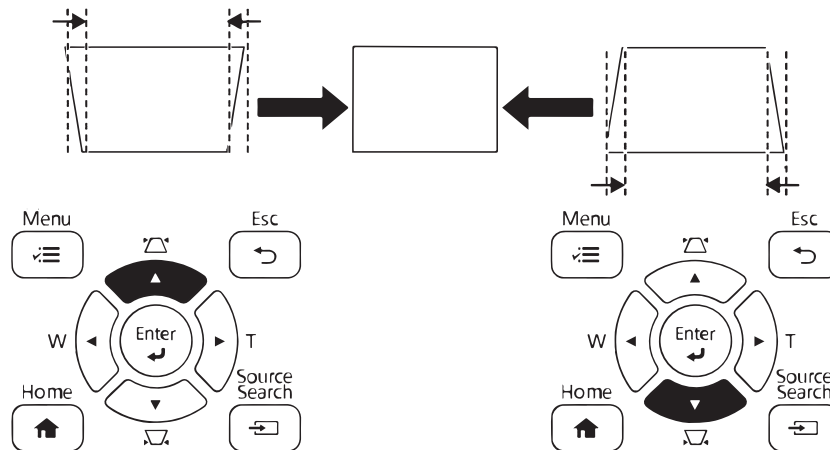
Image focus

Open the front door by pressing the top left corner to activate the push-to-open mechanism. The image focus adjustment lever is located behind the hatch on the side of the projector. Push the locking mechanism forward to open the hatch. Adjust the focal point using the projector's "Focus" lever.



Image shape

1. Open the front door by pressing the top left corner to activate the push-to-open mechanism.
2. Correct a slanted image using the projector's keystone correction buttons.



For more advanced image settings, refer to the user manual for the Epson EB-770F / 775F / 760W.

Lifting the image

1. To activate image lift, long-press "Freeze."
2. To lift the image, press "Volume -". This action reduces the image size and raises it.
3. Move Artome S1 away from the projection surface. As a result, the image size increases and rises higher.



For image projection, Artome S1 utilizes an Epson ultra-short throw projector with fixed lens optics. However, by zooming out the image and then utilizing the image shift function, it's possible to adjust the image position. This adjustment may result in a reduction in image quality.

Image reset

To reset image settings, long-press the POWER button while the device is on.

MAINTENANCE

Cable management

1. Disconnect any unnecessary cables and put them neatly inside the storage space.
2. Make sure that the necessary cables are firmly connected and enter the casing through the cable grommet.

Cleaning the unit

Exterior

1. Wipe the exterior surfaces (excluding the front door, the projector lens, and the user panel) with a damp cleaning cloth and neutral detergent.
2. After wet wiping, wipe the surfaces dry.



Keep the exposure time of chemicals on surfaces to the minimum and avoid excessive abrasion

Interior

1. Open the front door by pressing the top left corner to activate the push-to-open mechanism.
2. Wipe the interior surfaces with a dust-binding cleaning cloth.

Door upholstery

- Dry clean the fabric of the front door using a vacuum cleaner with an upholstery tool.



If the front door fabric gets damaged or stained uncleanable, please contact Artome for a spare part.

Vacuuming the projector space and fans



- Clean the projector casing with a vacuum cleaner equipped with a crevice nozzle. Clean under the projector and around the fans on both sides of the cabinet.



Dust may block air ventilation for projector and cause the projector warming up.

Cleaning the lens

- Clean the projector's lens periodically, or whenever you notice dust or smudges on the surface. Make sure you unplug the projector before cleaning the lens.
- To remove dust or smudges, gently wipe the lens with lens-cleaning paper.
- To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the lens. Do not spray any liquid directly on the lens.

	Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector may cause a fire.
	Do not use glass cleaner or any harsh materials to clean the lens. Do not subject the lens to any impacts; you may damage it. Do not use canned air, or the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints or damage to the lens surface.

Projector air filter replacement

Epson Epson EB-770F / 775F / 760W projector houses an air filter model ELPAF56 (SKU: V13H134A56)
Contact Artome Support or your local Artome reseller for assistance, if an air filter needs to be replaced.

Fuse change

Artome Mains power connector uses a 5x20mm 6.3A fast acting fuse. Contact Artome Support or your local Artome reseller for assistance, if a fuse needs to be replaced.

Product service program

Task	Frequency
Cleaning the furniture	Every month
Vacuuming the projector space and fans	Every month
Testing operation including all connections	Every 6 months
Projector air filter cleaning or replacement	Every 12 months

TECHNICAL DATA

General specs

Name	Artome S1
Materials	Birch plywood, MDF, steel, aluminum, polyester fabric
Dimensions	(W x H x D) 52 x 86 x 48,5 cm / 20.4" x 33.9" x 19.1"
Weight (excl. projector)	40 kg / 88 lb
Warranty (excl. projector)	24 months (option to extend up to 60 months)

Technical specs

Supply Voltage	100-240V~ 50/60Hz
Power consumption (excl. projector)	70 W
Sound	2.1 speaker system. Max. SPL 99 dB @ 1 m
Operating temperature	0-30 °C / 32-86 °F
19" rack	3U x 340 mm / 13.4" (depth)
Controls	Power, Source, Vol +/-, Pause, Freeze, Mic gain
Connections	HDMI in x2, Mic in x2, Power outlet (100-240V~ 50/60Hz 1.5-3.3A), Projector power (100-240V~ 50/60Hz 2.8-1.3A)

Projector specs*

Compatible projectors	Global: Epson EB-770F / 775F / 760W US/Canada: Epson PowerLite 770F / 775F / 760W
Brightness	4100 lm
Power consumption	277 W
Resolution	1080p
Aspect ratio	16:9
Connections	All unused connectors on the projector can be accessed behind the back plate of Artome.
Recommended image size	60-150"
Weight	5,9 kg / 13 lb



*Artome does not assume responsibility for the performance, compatibility, or functionality of third-party products or their respective features. Users should refer to the documentation provided by the respective vendors for detailed information on their products.

SUPPORT

For support see www.artome.fi/en/support or contact support@artome.fi


WARRANTY

For up to date warranty information, see www.artome.fi/en/warranty

For warranty claims contact your Artome dealer or Artome Support.

DISPOSAL

Disposal of electronic components

	<p>Waste Electrical and Electronic Equipment (WEEE) Dispose the product correctly at the end of its life to help protect the environment. Please refer to your local regulations for proper disposal instructions.</p>
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The symbol on the product indicates that this device must not be treated as unsorted municipal waste but must be collected separately! Dispose of the device via a collection point for the recycling of waste electrical and electronic equipment if you live within the EU and in other European countries that operate separate collection systems for waste electrical and electronic equipment. By disposing of the device in the proper manner, you help to avoid possible hazards for the environment and public health that could otherwise be caused by improper treatment of waste equipment. The recycling of materials contributes to the conservation of natural resources. Therefore, do not dispose of your old electrical and electronic equipment with the unsorted municipal waste.

Disposal of packaging waste

The packaging is made of environmentally friendly materials, which may be disposed through your local recycling facilities. By disposing of the packaging and packaging waste in the proper manner, you help to avoid possible hazards for the environment and public health.

ARTOME

Artome Oy | Syrjäläntie 81 | FIN-19110 | VIERUMÄKI | FINLAND

EU DECLARATION OF CONFORMITY

This is to certify that the:

Product models: **Artome S1 and Artome M10**

Product type: **Audiovisual cabinet**

is designed and manufactured to comply with the requirements of:

- The Low Voltage Directive (LVD) 2014/35/EU,
- EMC Directive 2014/30/EU,
- Directive 2011/65/EU on the Restriction of use of certain Hazardous Substances in electrical and electronic equipment (RoHS)
- Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)

The following standards were used in testing the product:

- EN 55032:2020 Electromagnetic compatibility of multimedia equipment - Emission Requirements
- EN 55035:2020 Electromagnetic compatibility of multimedia equipment - Immunity requirements
- EN 61000-3-2:2018 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

The following standard was used in designing, manufacturing, and testing the product:

- EN IEC 62368-1:2020 Audio/video, information, and communication technology equipment - Part 1: Safety requirements

This declaration is issued under the sole responsibility of the manufacturer.

Signed:



Toni Parikka

Chief Technology Officer

Place: Heinola

Date: 7-5-2024

ARTOME

Artome USA LLC | 680 S Cache Street | Jackson, WY 83001

SUPPLIER'S DECLARATION OF CONFORMITY

Unique identifiers: Artome S1, Artome M10

FCC ID: XPYNORAB1

Responsible Party: Artome USA

Street address:
31101 Wiegman road
Hayward CA 94544

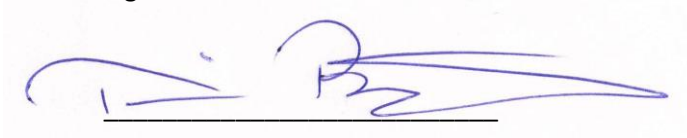
Tel. (619) 436 9131

contact@artomeusa.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Signed:



Toni Parikka

President

Artome USA LLC

Date: 7 May 2024