

S1 Mobile LED Projector

Reviewer Guide

OPBG Product MKT
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Ultra - portability

Bright display

Easy to maintain and use

Seamless connectivity

High fidelity sound

Premium design

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Product overview

The ultraportable and compact ASUS S1 Mobile LED Projector features an internal rechargeable 22Wh battery that delivers up to 3 hours of projection time, and allows the S1 to function as a 6,000mAh power bank for charging mobile devices. A best-in-class short throw ratio allows the S1 to project 41-inch images from just 1 meter from the screen.



The use of an LED light source provides the S1 with Instant On/Off capabilities with almost no warm up or cool down times. ASUS SonicMaster audio-enhanced technology provides quality sound; while the MHL port lets users connect the S1 to mobile devices as a projection source while charging them at the same time.

Why you need the S1

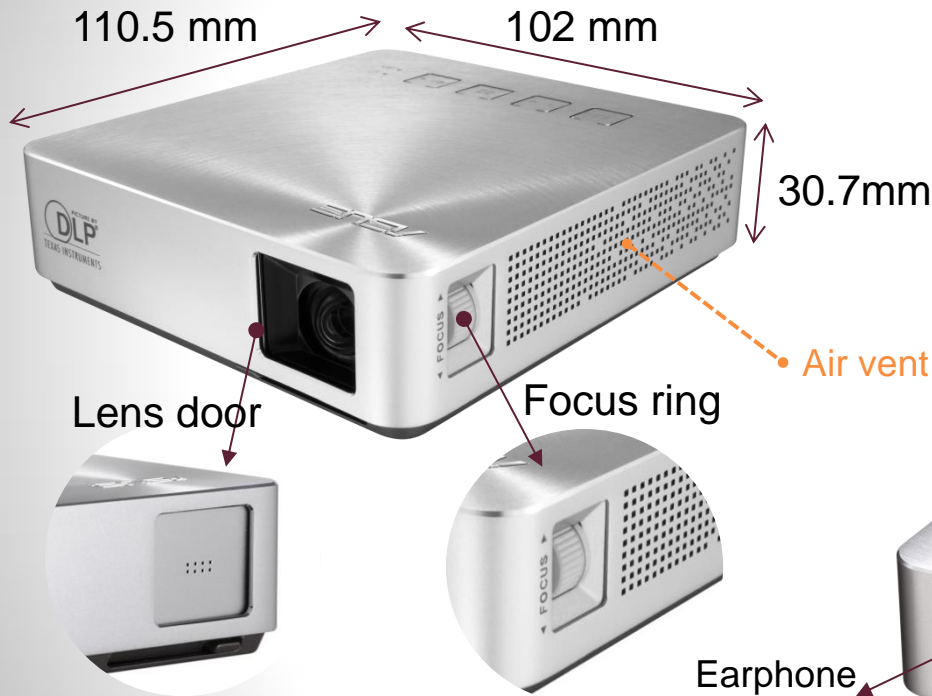
Using an S1 for business can be a smart move that yields big results. You don't need to haul bulky projectors everywhere you go. Just invest in a portable projector, load it with your presentation and show your clients what your firm can do for them.

Using an S1 for entertainment purposes a brisk move that shares big screen fun. Any large flat vertical surface can serve as your screen, and having its own battery means you won't have to look for power sockets.

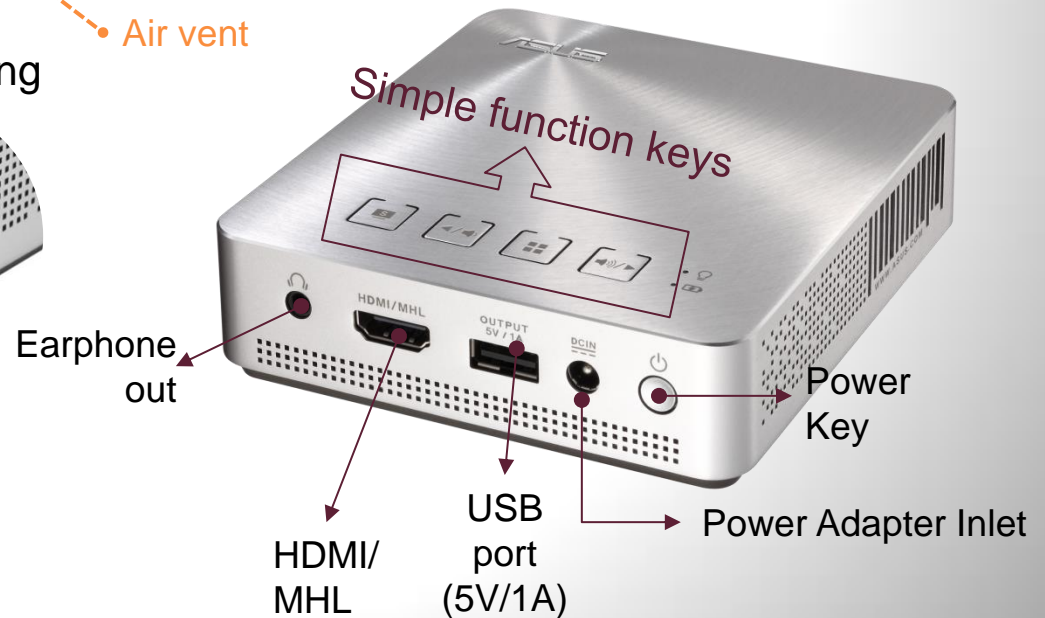


S1 Design at a glance

Front View



Rear View



Key Product Features Overview

S1 Mobile LED Projector

Mobile Projector and Pocket Charger in One

Ultra portability thanks to a compact design with a built-in battery



Ultra-light Weight

Compact dimensions (W110.5 x D102 x H30.7 mm) and 342g in weight



Embedded Battery

Built-in rechargeable 22Wh battery for up to 3-hour projections in battery mode



Power Bank

6000mAh Power Bank - USB Charging even when the S1 is off

LED light source with best-in-class short throw ratio



Short Throw
41" @ 1m

Short throw projections of 41" from just 1 meter from the screen



Instant On/Off

5 seconds on and instant off



LED
Light Source
30,000 hours
Lifetime

200 lumens, long-life LED light source with 100% NTSC color gamut

Incredible, award-winning design



product
design award

2014



Zen-inspired design, crafted with a sleek and stylish concentric-circle finish for a modern look

The fullest multimedia experience



HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

An HDMI input port lets users connect the S1 to various IT, multimedia and mobile devices



Mobile High-Definition Link

MHL provides a single-cable video and power connection for compatible smartphones; while also charging the device



ASUS SonicMaster audio technology for excellent sound

Unique selling points

Ultra - portability

Bright display

Easy to maintain and use

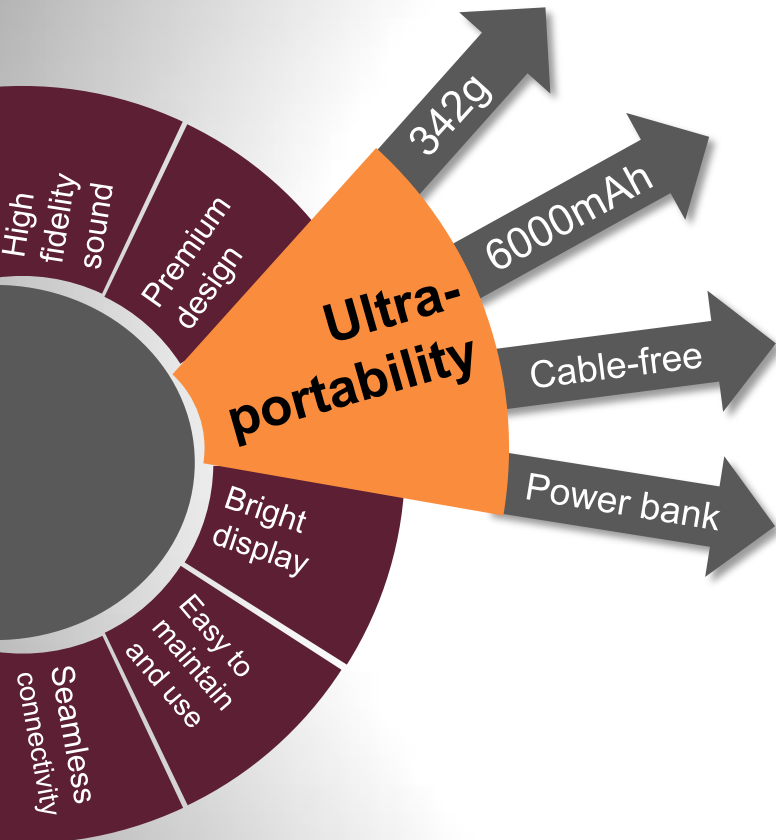
Seamless connectivity

High fidelity sound

Premium design



Show, AS YOU GO



The S1 has compact dimensions that measure just 110.5 x 102 x 30.7mm (4.35 x 4.02 x 1.21 inches) and has a desktop footprint no larger than two business cards put side by side. It weighs just 342g (0.75 pounds).

The S1 comes with a built-in rechargeable 22Wh battery and can be used as a 6000mAh power bank to charge mobile devices even when the S1 is switched off. Its 6000mAh battery is the largest capacity in the pocket projector class.

Its lightweight, cable-free design makes it extremely portable and easily slips into your briefcase for easy-to-setup presentations on the go.

Make full use of your S1

Project images or videos on any flat, vertical surface with the S1 for best results, we recommend a **light colored wall (preferably smooth and white)**. The projector can show up to 100 inches, you can adjust the size of the projected image by simply moving the S1 towards or away from the projection surface. **Dimming room lights** will also improve projection quality.

The cable-free features allows you to use the S1 anywhere, and you don't even have to worry about where the nearest power socket is.



High capacity power bank

The S1 also functions as a 6000mAh power bank, so you can charge your mobile device through the S1's USB port even with the S1 is off.



How many times can
you charge your
devices?



iPad mini:
1.3 times*



Nexus7:
1.4 times*



Padfone Infinity:
2.4 times*



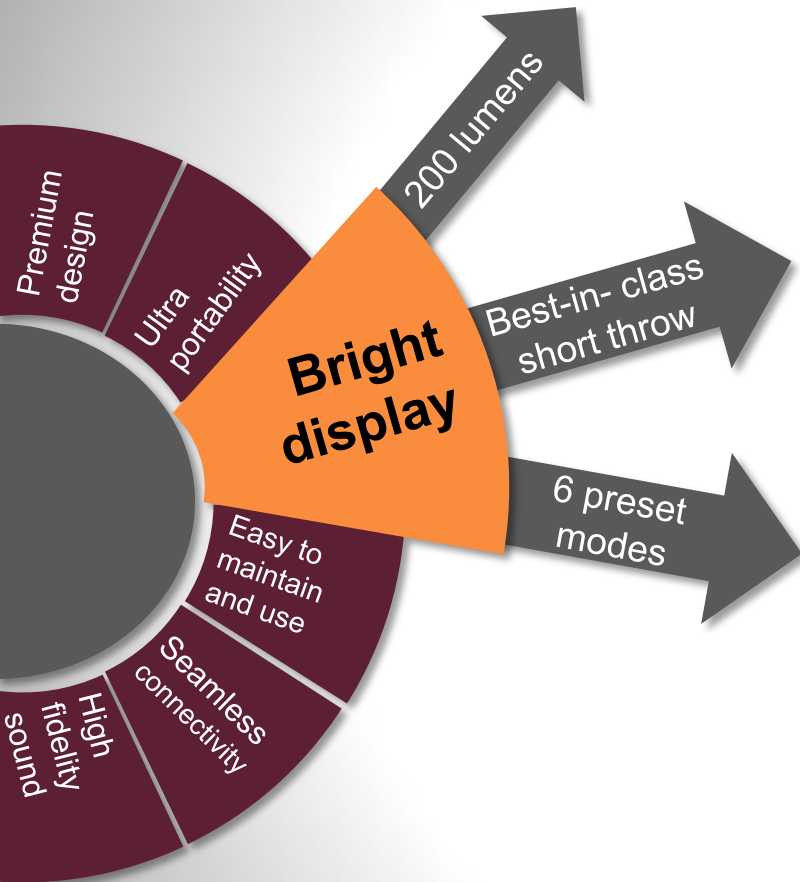
iPhone 5S:
4 times*

* When S1 is fully charged

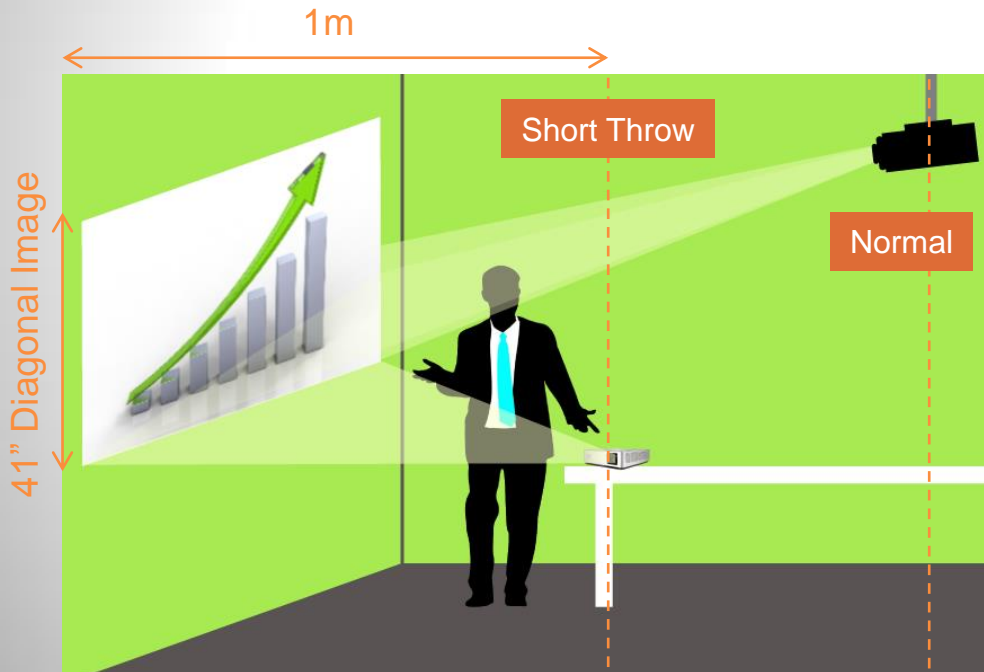
Large, bright, and clear projections on-the-go

Despite the S1's compact size, updated DLP technology and a 200 lumens light source delivers bright, clear projections.

The S1 has a 1.1:1 short-throw ratio lens provides 41-inch images from a distance of 1 meter, it's perfect for presentations in small meeting rooms, classrooms or coffee shops. It is ideal for those who conduct presentations in confined space.



A 1.1:1 short-throw ratio lens provides 41-inch images from a distance of 1 meter, it's perfect for presentations in small, confined spaces.



Why do you need a best-in-class short throw lens?

It allows you to project large images in confined spaces.

Short-throw projectors are able to display large images even when the projector is placed close to the projection surface.

They can be used almost anywhere, but work best when the projection surface is perfectly flat.

Why do you need a best-in-class short throw lens?

It minimizes shadows and glare

Using a short-throw projector means there's less chance of shadows being cast across the screen, and presenter and audience are less likely to be blinded by the light source.

What Happens in an Internet Minute?

| | | | |
|--|---------------------------------|--------------------------|---------------------------|
| 639,800 GB of global IP data transferred | 30 New videos of identity theft | 47,000 App downloads | 61,141 Hours of music |
| 133 New Wikipedia articles published | 304 million Emails sent | \$83,000 in sales | 30 million Photo views |
| 1,300 New mobile apps | 330+ New Twitter accounts | 100,000 New tweets | 3,000 Photo uploads |
| 100+ New LinkedIn accounts | 277,000 Logins | 8 million Facebook views | 2+ million Search queries |
| 30 Hours of video uploaded | 1.3 million Video views | | |

And Future Growth is Staggering

Conventional LED projector

ASUS S1

- X Walking in front of the projector light
- X Blocking the image on the screen
- X Prevention of light from shining in the presenter's face.

Launch the presets by pressing

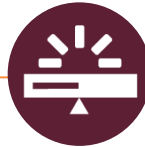


The S1 has 6 preset modes which enables users to adjust display brightness depending on the situation.

6 preset modes:

Standard mode

This is the brightest mode for general use



Battery mode

It allows you to optimize power consumption (50 lumens) while running on battery power.

Theater mode

This is recommended for playing videos.



Presentation mode

This is suited for quick use. It provides a higher brightness (70 lumens) when running on batteries and will last up to 100mins.

Flashlight

It produces a steady beam of white light which can be used as a torch. This is only available under the battery mode.



Emergency light

This emits a white pulse when the S1 is running on batteries and has no input signal. It serves as an S.O.S. beacon when you are in need of help.

Save your money and time



The S1's LED light source has a 30,000-hour lifespan, so you can use the S1 for eight hours a day for up to 10 years without needing a replacement lamp.

It also gives the S1 an Instant On/Off capability as there is no need for it to warm up or cool down. This lets you present your ideas or share videos almost immediately.

Simple navigation menus allow you to operate the S1 without having to read through complex manuals.

LED projectors help save on running costs

If used for 8 hours a day, the 30,000-hour lifespan of the LED light source means you can use the S1 for up to 10 years.



Conventional
Lamp Projector

Total cost
= machine cost



plus cost of additional lamps



Costly Maintenance

A projector lamp has a lifespan of 2000-3000 hours. A replacement lamp costs around US\$200 each → Total maintenance costs will amount to over US\$2,000.



LED
Projector

Total cost
= machine cost only

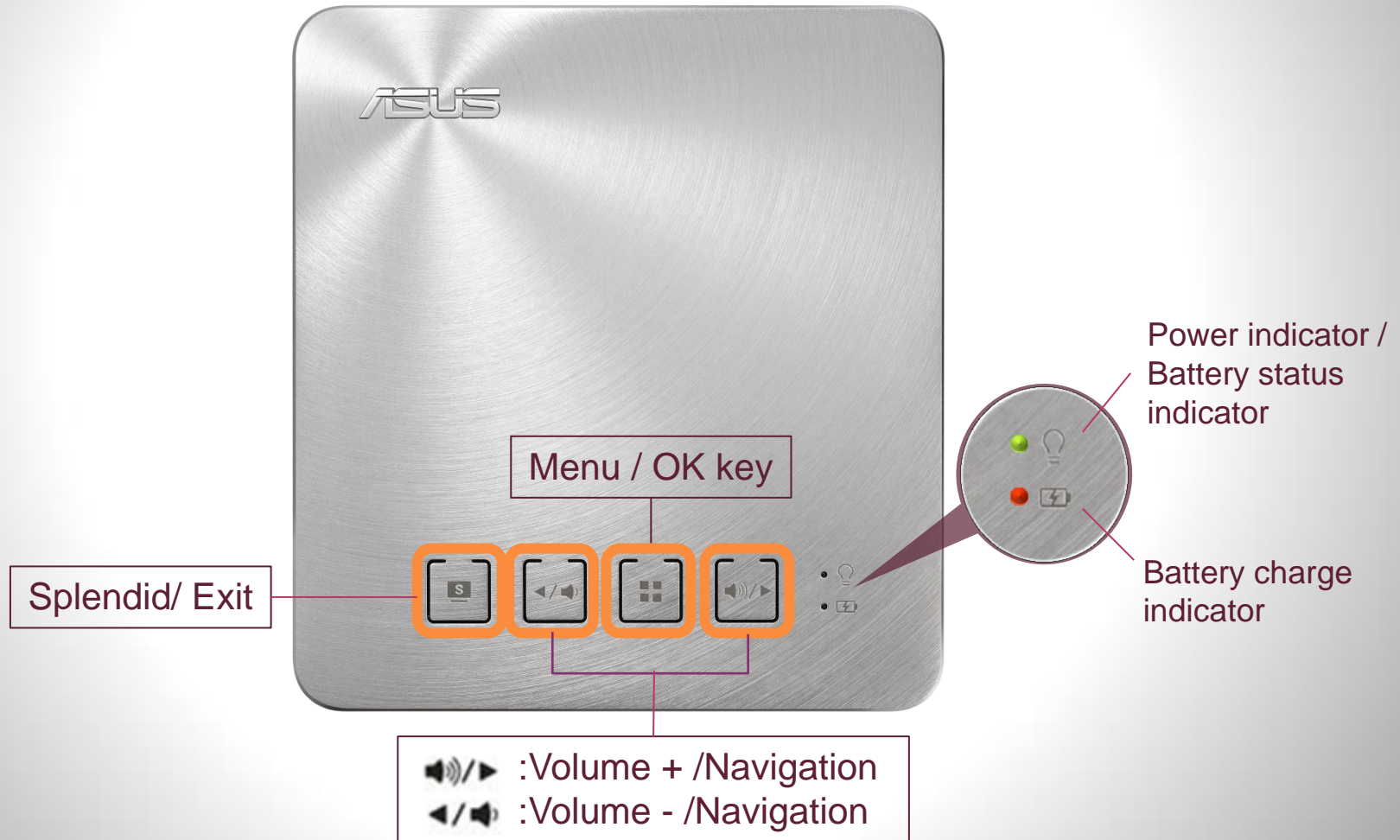


Maintenance saving

Lifespan = up to 30,000 hours
= 8 hours a day x 10 years
= 4 hours a day x 20 years

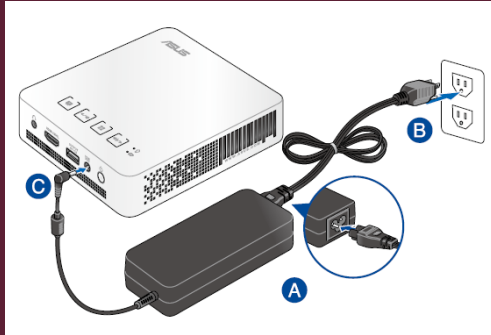
There's no need for costly lamp replacements.

Easily navigate through menus or operate your projector via the panel buttons



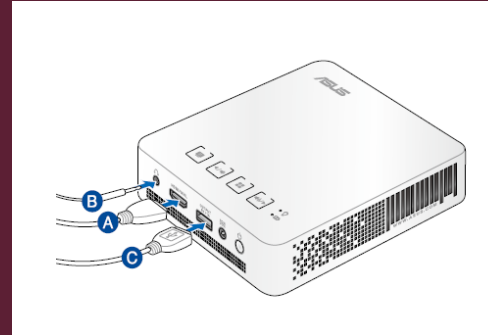
4 steps to set up your S1

1 Connect the LED projector to the power adapter.



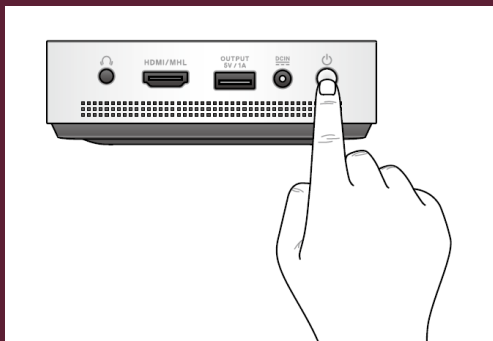
- A** Connect the power cord to the power adapter.
- B** Connect the AC power cord to a power source
- C** Connect the DC power connector to your LED projector.

2 Connect the LED projector to your device.

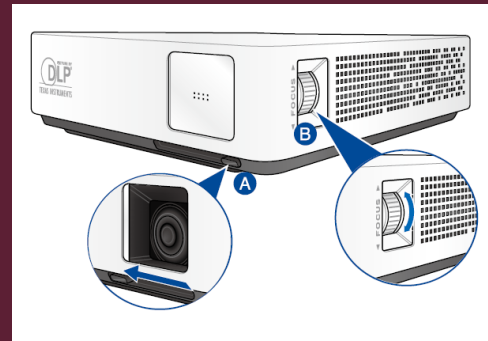


- A** HDMI/MHL
- B** Audio output power
- C** Power output (5V/1A)

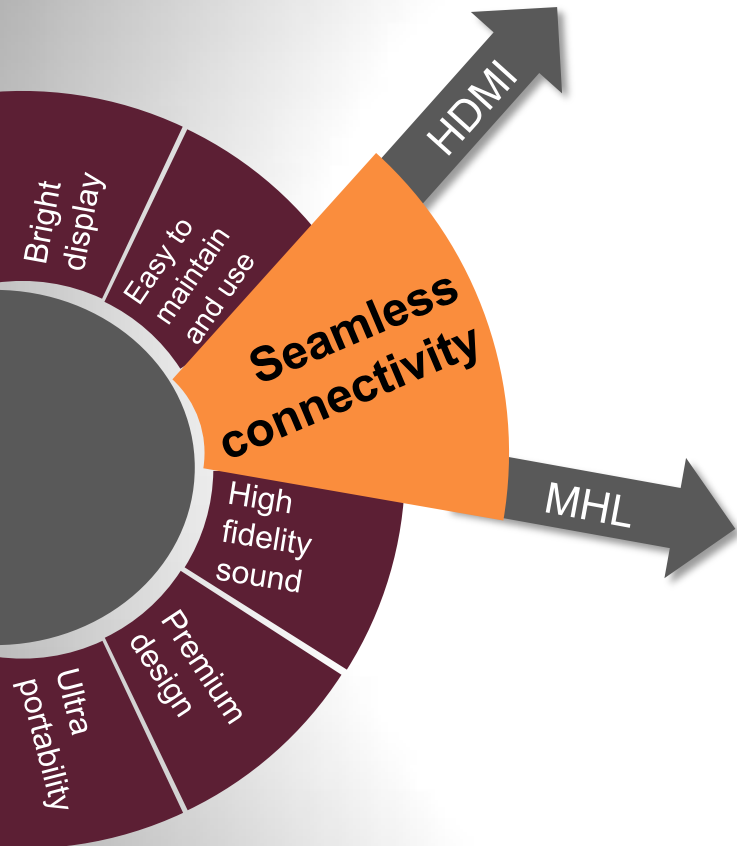
3 Press the power button.



4 Open the lens cover and adjust the focus ring.



- A** Open the lens cover by moving the lever to the left.
- B** Adjust the image by moving the focus ring up or down.



Seamless connection to your mobile devices

Users can easily connect the S1 to various IT, multimedia and mobile devices through the HDMI port.

The MHL port allows you to mirror everything on your phone onto the projected image by simply connecting your MHL-enabled phone to your ASUS S1 projector. It also charges your device while in use.



What benefit does MHL bring to the S1?

MHL specification is an HD video and digital audio interface for connecting MHL-enabled phones and portable devices to home entertainment products.

It supports digital audio/video and simultaneously provides power to the mobile device.

<http://www.mhlconsortium.org/productlist/mobile-devices/>

How does HDMI benefit the S1?
HDMI lets you view HD content from HD-DVD or Blu-ray Disc players and other input devices. HDMI carries both video and audio signals in a single cable for easy set-up.

COMPATIBILITY

| Your device: | How to connect? Need an adapter? |
|--|---|
| Apple® iPad®, iPhone®, and iPod touch® devices | via- Apple Digital AV adapter (commercially available) + standard HDMI cable (included) |
| MHL-enabled smartphones, tablets | via MHL cable (included) |
| Other Smartphones, tablet with Micro or Mini HDMI port | via Micro/Mini HDMI to HDMI adapter (commercially available) + standard HDMI cable (included) |
| Camera, camcorder with Micro or Mini HDMI port. | via Micro/Mini HDMI to HDMI adapter (commercially available) + standard HDMI cable (included) |
| Laptop with HDMI port | Via standard HDMI cable (included) |
| Gaming console with HDMI port | Via standard HDMI cable (included) |
| DVD / Media players with HDMI port | Via standard HDMI cable (included) |



DVD players



Media players



Smart phone



Tablets



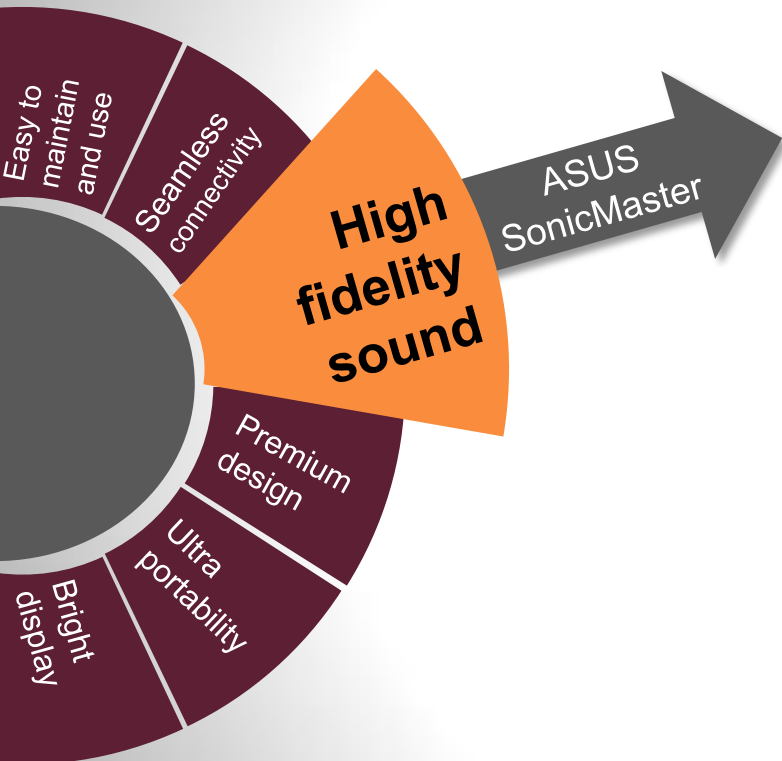
Laptops



Blue-ray disc players



Game consoles



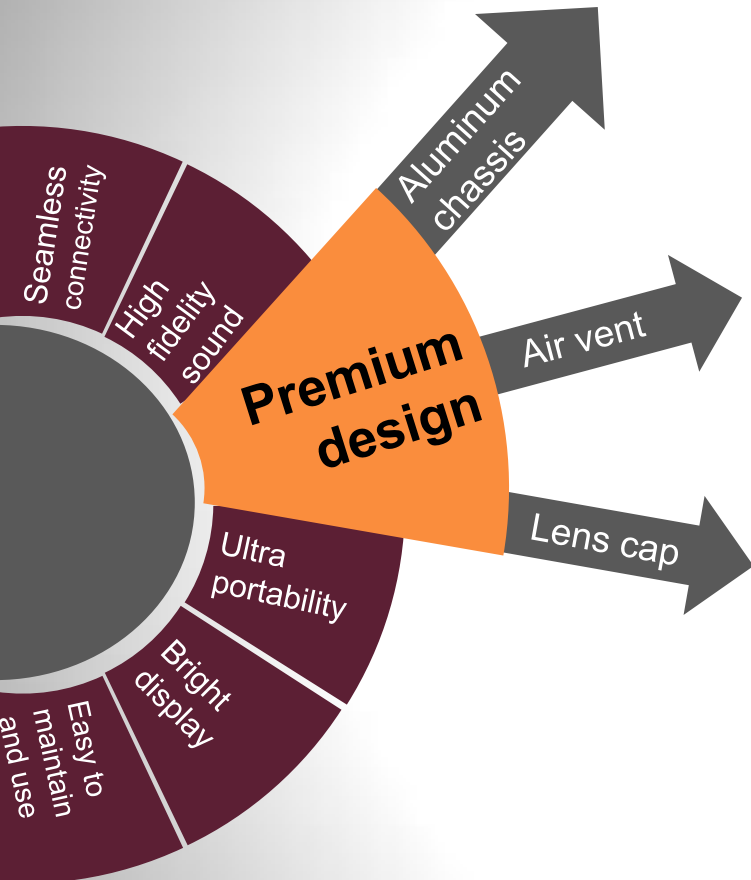
SonicMaster

Clearer sounds deliver truer experience

ASUS SonicMaster delivers optimized hardware and precision-tuned software for professional-grade audio.

It delivers true high fidelity sound via distinct directional audio detection – all musical instruments are heard, delivering rich and diverse audio.

Stylish and durable design



ASUS designers penned the S1's Zen-inspired lines and gave its sleek, modern chassis a stylish concentric-circle finish. Finished in aluminum, this premium design helped the S1 win the 2014 CES Innovations Award and 2014 iF product design award.

The use of aluminum aids in heat dissipation and prevents the S1 from overheating. The lens cap has also been designed to protect the lens from damage as well as dust.



What are the benefits of an aluminum chassis?

The use of aluminum aids in heat dissipation and prevents the S1 from overheating. Also, aluminum is not prone to warping even at temperature extremes. The S1 is extruded from one piece of aluminum for additional durability and strength.



Protective sleeve

The protective sleeve keeps your S1 safe when in your bag or briefcase. It has a cut-out slot for the USB port so you can charge your mobile device even when your S1 is not in use.

Lens cap benefit:

Protects the lens from damage as well as dust

Air vent



Lens cap

What's in the box?



• **Projector**



(inner)



(outer)

• **Carrying Bag**



• **Power Adaptor**
(type by region)



• **Quick Start Guide**



• **AC Power Cord***
(type by region)



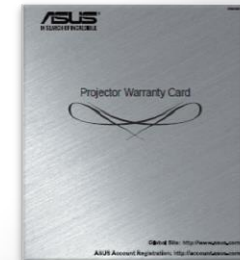
• **HDMI cable***



• **MHL cable***



• **USB cable***



• **Warranty Card**

Full specification

| | | |
|-----------------|-------------------------------------|--|
| Display | Display Technology | 0.3" DLP® |
| | Light Source / lifetime(Max) | R/G/B LED, 30,000 hours |
| | True Resolution(native) | WVGA 854x480 |
| | Light Output(Max.) | 200 lumens (up to 70 Lumens with battery) |
| | Contrast Ratio(typical) | 1000:1 DCR |
| | Color Saturation (NTSC) | 100% |
| | Display Colors | 16.7 M |
| Projection Lens | Throw Ratio(@16:9) | 1.1:1 (41" @ 1m) |
| | Projection Distance/ Screen Size | 0.73~2.43m/ 30~100 inches |
| | Projection Offset | 100 % |
| | Zoom Ratio | Fixed |
| Video Feature | Picture Modes | 6 Modes(Battery Mode / Presentation Mode / Standard Mode / Theater Mode /Flashlight mode / SOS Mode) |
| | Aspect Ratio | Auto/ 16:9 / 4:3 |
| | Projector Placement | Front Table, Rear Table, Front Ceiling, Rear Ceiling |

| | | |
|------------------------------------|------------------|--|
| Audio Feature | Built-in Speaker | Yes, 2W speaker(ASUS SonicMaster Audio technology) |
| Power Consumption | | 32W |
| Internal Battery | | 6000mAh (5V@1A) |
| Battery Life | | 22Wh(up to 3 hours) |
| Acoustic Noise(Typical) | | 28 dB (Battery mode) |
| Mechanical Design | Chassis Colors | Silver |
| | Lens Cover | Yes |
| | Tripod Socket | Yes |
| Interface | Signal Input | HDMI/ MHL |
| | Audio Output | Earphone out |
| | USB Port | Yes (1xType A, for power charge usage) |
| Phy.Dimension/ Net Weight | | 110.5 x 102 x 30.7 mm/ 342g |
| Operating Temperature/ Humidity | | 0°C ~ 40°C/ 20%~90% |
| Accessories | | carry bag, power adapter, power cord, HDMI cable, USB cable, MHL cable ,Quick Start Guide, Warranty card |

* Actual product specifications may vary per country or region

Q & A

Answers to frequently asked questions.



Brightness and Image Quality

Q. What are the benefits of LED over traditional lamp projectors?

Ans:

LED projection technology naturally has better color saturation than traditional mercury lamps used in standard projectors. When seen side-by-side, LED projectors project images as bright as high lumen lamp projectors. Lamp projectors often deteriorate in color and brightness from day 1 whereas LED projectors ensure bright, crisp images even after several thousand hours of use.

LED Light Source

Q. What's difference between an LED and a traditional lamp light source?

Ans:

The LED light source used by the S1 has a 30,000-hour lifespan, equating to 10 times the lifespan of traditional lamps (usually around 3,000 hours). In theory, that means the user also helps save the environment by not using a mercury-based lamp.

The compact LED module also helps with the S1's "Instant On/Off" capability, and also adds to the S1's small, portable design.

Operation

Q. What's the ideal projection distance for the S1?

Ans:

The proper projection distance will be set at 0.73~2.43m to give projections which range from 30"~100" in size. For larger projections, move the S1 further than 2.43m from the screen; do note that this will reduce image brightness.

Q. What environment does the S1 work best in?

Ans:

The S1 works best in small settings (eg. meetings rooms for 5 people) with low ambient light.

Short Throw Ratio

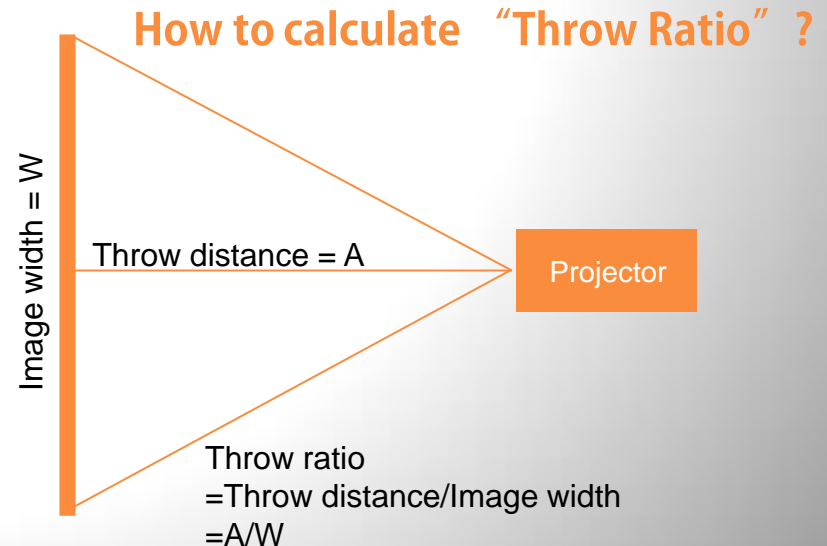
Q. What does S1 with 1.1:1 throw ratio mean?

A projector's throw ratio is defined as the distance (D), measured from lens to screen, that a projector is placed from the screen, divided by the width (W) of the image that it will project (D/W).

i.e.

@ TR 1.1 : 41" Display at 1 meter away from the projector [S1's TR]

@ TR 1.55 : 30" Display at 1 meter away from the projector [Others]



Battery-powered

Q. What are the benefits of the S1's built-in battery?

Ans:

The S1's compact chassis houses a built-in rechargeable 22Wh battery that provides up to 3 hours of projection time on a full charge. It lets users set up the projector almost anywhere without having to worry where the nearest power socket is.

When running on battery power, only two preset modes are available for selection

BATTERY MODE (3 hours @ 50 lumens)

PRESENTATION MODE (1.8 hours @ 70 lumens)

Note: Like all batteries, the battery lifespan is affected after every charge-discharge cycle.

Power bank inside

Q. What is the benefit of using the S1 as USB power bank?

Ans:

The S1 Mobile LED Projector's built-in battery helps to power up the S1 for projections, and also doubles up as a USB power bank to charge mobile devices. At full charge, it has a 6,000mAh capacity which allows users to charge an iPhone 5 four times over.