

Portable Ultra Short Throw Projector

Reference Guide



LSPX-P1

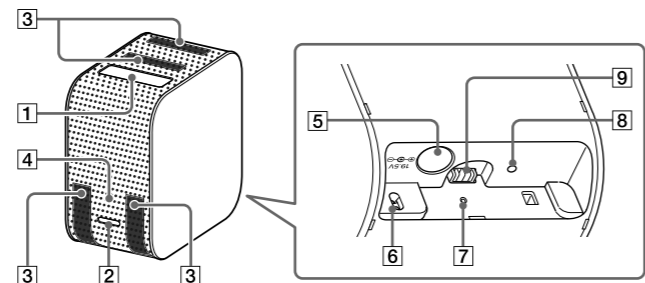
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Manuals supplied

- Startup Guide**
Read this manual first. The initial preparation, such as charging and connecting a smartphone, is described.
- Reference Guide (this document)**
Safety precautions and specifications.
- Help Guide (Web operating instructions)**
The Help Guide describes the features of the unit and how to use in detail. You can view the Help Guide on a smartphone or computer.
<http://xxxx>

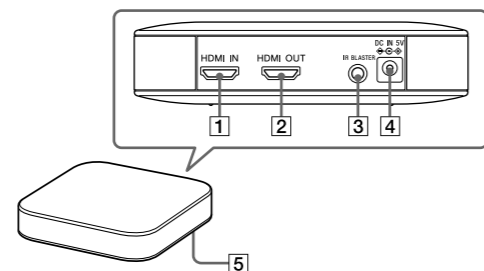
Location of controls

Portable Ultra Short Throw Projector



- | | |
|--------------------------------------|---|
| 1 Projection window(Laser Aperture) | 6 Distance sensor |
| 2 Power button | 7 RESET button |
| 3 Ventilation holes (intake/exhaust) | 8 Charge indicator |
| 4 Power indicator | 9 Power jack for the stand (not supplied) |
| 5 DC IN 19.5V jack | |

Wireless HDMI Unit



- | | |
|---------------------------|------------------|
| 1 HDMI IN | 4 DC IN 5V jack |
| 2 HDMI OUT (pass-through) | 5 PAIRING button |
| 3 IR BLASTER output | |

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product.

Model No. LSPX-P1 (Projector)
Serial No. _____
Model No. LSPX-PT1 (Wireless HDMI Unit)
Serial No. _____

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS -SAVE THESE INSTRUCTIONS DANGER TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Observe the following cautions, as there may be a risk of heat generation, fire or explosion.

- * Lithium-ion battery is built into the product.
- Charge the product by the designated charging method.
- Do not place the product in or near fire, or put the product in a microwave.
- Do not leave the product in a car in hot weather.
- Do not store or use the product in a hot and humid place such as in a sauna bath.
- Do not disassemble, crush or pierce the product.
- Do not expose the product to excessive shock such as dropping from a high place.
- Do not expose the product to high temperatures above 60 °C (140 °F).
- Keep the product dry.
- Dispose of the product appropriately.
- Charge the product by the designated charging method in the instruction manual.

- Use the nearby wall outlet (wall socket) when using this unit. If any trouble occurs while this unit is in use, unplug it from the wall outlet (wall socket) to disconnect the power.
- For models with CHARGE lamp
Even when the CHARGE lamp is off, the power is not disconnected.

For Customers in the U.S.A.

For supplied accessories

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.

Compliance with FCC requirement 15.407(c)

Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinues transmission in case of either absence of information to transmit or operational failure.

Frequency Tolerance: ±15 ppm

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE).

But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body.

For Customers in the U.S.A.

If you have any questions about this product, you may call:
Sony Customer Information Center
1-800-222-SONY (7669)
The number below is for the FCC related matters only.
[Regulatory Information

Declaration of Conformity

Trade Name: SONY
Model No.: LSPX-P1
Responsible Party: Sony Electronics Inc.
Address: 16535 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part15 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.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

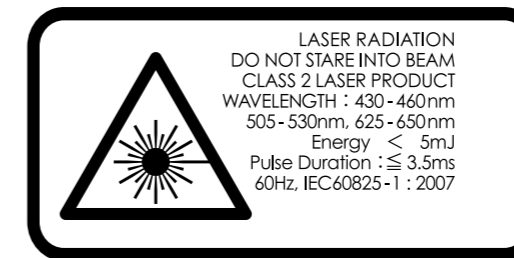
Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This Projector is classified as a CLASS 2 LASER PRODUCT. This CLASS 2 LASER PRODUCT label is located on the near the projection window left side surface of the Projector.

Caution

The use of optical instruments with this product will increase eye hazard.

Precautions

Do not damage the power cord.

- If the power cord is damaged, it may cause a fire or electric shock.
- Do not squeeze the power cord between the unit and a desk or wall.
- Do not modify or damage the power cord.
- Do not put a heavy object on the power cord, and do not pull the power cord.
- Keep the power cord away from a heater or other heat source.
- When unplugging, be sure to hold the plug to remove it from the wall outlet.

Do not place the unit where there is excessive oily smoke, steam, moisture or dust.

If the unit is in such a place, or used outside the conditions recommended in this document, it may cause a fire or electric shock.

Do not let water or foreign objects get into the unit.

If water or foreign objects get into the unit, it may cause a fire or electric shock. If water or foreign objects have gotten into the unit, turn it off immediately, and disconnect the power cord and connection cables.

Do not disassemble or modify the unit.

It may cause a malfunction, fire or electric shock. Consult qualified Sony personnel on rechargeable battery replacement, internal inspection and repair.

Be sure to use the supplied AC adaptor with the unit.

If a different AC adaptor is used with the unit, it may cause a fire, electric shock or malfunction.

If there is a possibility of lightning strike, do not use the unit.

A lightning strike may cause an electric shock. If lightning is likely, unplug the unit to prevent a fire, electric shock and malfunction. Do not touch the unit when thunder is heard.

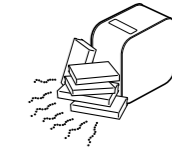
Do not touch the power plug with wet hands.

If you plug/unplug the power plug with wet hands, it may cause an electric shock.

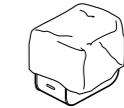
Do not block the ventilation holes (intake/exhaust).

If the ventilation holes are blocked, heat will build up inside the unit, causing a fire or malfunction. To maintain good ventilation, observe the following:

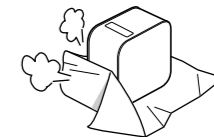
- Place the unit away from walls and objects.



- Do not use a cover that blocks the ventilation holes.



- Do not place the unit on a soft cloth, paper documents, thick carpet or small pieces of paper. They may be drawn in and block the intake holes.



Do not look into the projection window.

If you look into the projection window while the projector is being used, the light may damage your eyes.

Do not obstruct the projection window.

If you obstruct the projection window for a long time, the light will heat the obstruction, which may cause deterioration, deformation, burns or fire.

Do not project onto a glossy surface.

The light may be reflected into your eyes and may adversely affect them.

Do not install the unit in a dangerously unsuitable location.

Do not install the unit in a location that would not provide a stable installation, such as a ceiling or wall. The unit may fall causing an injury.

Do not use the wireless functions in unsuitable places.

- Wireless functions are incorporated into this unit. Pay attention to the following points when using the unit, and if any problems occur, do not use the unit. In an emergency, immediately turn the unit off.
- Do not use the unit on an airplane.
Radio waves may affect the instruments of the airplane, causing a malfunction and accident.
- Do not use the unit near any automatically-controlled equipment, such as an automatic door or fire alarm.
Radio waves may affect the equipment, causing a malfunction and accident.
- If other equipment has any problems such as interference while the unit is being used, immediately stop using the unit.
Radio waves may affect the equipment, causing a malfunction and accident.

Do not continue viewing the projected screen for a long time.

Continuously viewing the projected screen for a long time may cause eye strain. If you feel any discomfort or pain, immediately stop using the unit and have a rest. If the discomfort or pain persists after taking a rest, consult a doctor.

Turn the unit off before making connections

Before making connections with the AC adaptor and connection cables, turn off the unit and connected equipment, and unplug the power plugs from the wall outlet.

Use the specified power cord and connection cables.

The supplied power cord is exclusive to the unit. It cannot be used with any other products.
Do not use any cables other than the supplied power cord and specified connection cables with the unit. They may produce heat causing a fire or electric shock.

Do not wrap the power cord or connection cable around the AC adaptor.

It may cause the cord or cable to break.

Do not continue touching the unit in operation or the AC adaptor for a long time.

Prolonged contact with the skin may result in burns. Even touching through clothing, prolonged contact may result in burns.

Do not use the unit or AC adaptor covered by cloth or bedding.

Heat will build up causing deformation, malfunction or a fire. Before putting the unit into a bag or similar, turn it off.

Do not place the unit on an unstable surface.

Do not place the unit on an unsteady stand or inclined plane. Otherwise, the unit may fall or topple over resulting in injuries.

Do not place the unit where there is water.

If water gets into the unit, the unit gets wet, or the unit is used in a bathroom, it may cause a fire or electric shock. Take special care when using the unit near the window in rainy or snowy weather, or by the shore or waterfront.

Before moving the unit, disconnect the power cord and connection cables.

If you move the unit with the power cord and connection cables connected, they may be damaged resulting in a fire or electric shock, or connected equipment may fall or topple over causing injuries. Also, take care not to drop the unit.

Insert the connector straight.

Insert the connector straight to make a connection. If it is inserted at an angle, pins may make a short circuit causing a fire.

If the unit is not to be used for a long time, unplug it.

For safety, unplug the unit if it will not be used for a long time.

Do not place/store the unit in a place exposed to direct sunlight or close to a heater.

Heat may build up in the unit causing a fire.

Do not subject the unit to a strong impact.

- If you apply a strong force to the unit, such as putting a heavy object on it, drop it, or step on it, it may cause injuries or a malfunction.
- Although the projection window is made of tempered glass, if it is strongly pushed or struck, it may break causing injuries.

Take care not to drop the unit when moving it.

If the unit falls, it may break or cause injuries.

Do not bring your hand or object close to the exhaust holes.

If you bring your hand or an easily-deformable object close to the exhaust holes, it may cause burns or deformation.

Keep the unit away from children.

If a cable becomes wrapped around the neck or similar misuse, it may cause an accident or injury.

Do not dispose of the unit as municipal solid waste.

A lithium-ion rechargeable battery is incorporated in the unit, and if an impact or pressure is applied during garbage collection, there is a danger of battery leak, heat generation, ignition, explosion or the like.

Safety precautions for batteries

To avoid serious injuries and blindness caused by battery leak/explosion/heat generation/ignition, be sure to observe the following precautions.

If a battery leak occurs

If a battery leak occurs, do not touch the leakage with bare hands.

Leakage may remain inside the unit, therefore consult qualified Sony personnel.

If the leakage gets into the eyes, it may cause blindness; do not rub the eyes, immediately and thoroughly wash the eyes with clean water such as tap water, then consult a doctor.

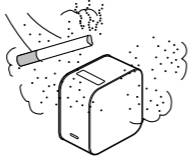
If the leakage spills on the skin or clothes, it may burn or cause injury; immediately wash out the leakage with clean water. If there is inflammation or an injury, consult a doctor.

- Do not burn, disassemble or heat batteries.
- Do not use/store/leave batteries in a hot place, such as close to fire, direct sunlight, or inside a car in strong sunshine.

Safety precautions

On handling

- Do not drop, hit, compress, or put a heavy object on the unit.
- The operating temperature range of the unit is 5 °C to 35 °C (41 °F to 95 °F). If the unit is used in an extremely cold or hot place outside the operating temperature range, it may cause a malfunction.
- Do not place the unit in any places where there is excessive dust or cigarette smoke. Dust and cigarette tar adheres to components inside the unit (such as the projection window) causing a malfunction.



- Do not place the unit in any places where the temperature is extremely hot or cold, or the humidity is extremely high. Especially when there is strong sunshine or during the summer, the inside of a car can get quite hot, and a unit left in the car may deform or malfunction.
- *** The wireless function of the unit is designed for use in the U.S.A. only. Each country/region has its own regulations for radio wave use, therefore if you use the wireless function of the unit abroad, you may be penalized. ***

On fan noise

A fan is incorporated inside the projector to prevent overheating, and this makes a slight noise while turned on. This noise is not a malfunction. However, if there are any abnormal noises, consult qualified Sony personnel.

On light source maintenance

This unit uses a laser, therefore special caution and facilities are necessary for the inspection and maintenance of light source components. Be sure to consult qualified Sony personnel.

On projector

- Although this unit is manufactured using very high precision technology, there may be some permanent black or white pixels on the projected screen. Also, there may be striped unevenness in color or brightness. This is a result of the projector structure and is not a malfunction. The color balance of each projector unit varies; therefore, when multiple LCD projectors are used, the color reproduction among projectors may vary, even if they are of the same model.
- Depending on viewed content, primary colors such as red, blue, or green are visible when you move your eyes or under certain conditions; this is not a malfunction. It is caused by a "color breakup" phenomenon which is specific to the field-sequential color system adopted into the unit for displaying images. This phenomenon can be subdued by diminishing the contrast between the image and the backdrop, such as decreasing the brightness of the unit or increasing the brightness of the room.

On condensation

If the room temperature changes rapidly, or if the projector is moved suddenly from a cold to a warm place, condensation in the projector may occur. As condensation can cause a malfunction, be careful in adjusting temperature settings of the air conditioner. If condensation occurs, leave the projector turned on for about two hours before use.

Cautions about heat generation of the unit

- While using or charging the unit, the unit or AC adaptor may become hot; this is not a malfunction. If the unit temperature becomes excessively hot, it may automatically turn off for safety. In such a case, use it in a cooler place after the unit has cooled down.
- If the unit or AC adaptor becomes unusually hot, it may malfunction. Immediately turn the unit off and unplug the AC adaptor from the wall outlet, then consult qualified Sony personnel.

On charging

- Charge the unit in the ambient temperature of 5 °C to 35 °C (41 °F to 95 °F). The unit may not charge sufficiently outside this temperature range.
- While charging or using the unit, the temperature of the unit may rise; this is not a malfunction.
- If you do not use the unit for a long time, charge it every six months to prevent battery degradation.
- When the unit has been left unused for a long time, the charging time may be longer.
- When the battery usage time drops to half of its original time, it may have reached the end of its life span. Consult qualified Sony personnel about the rechargeable battery replacement.

On AC power interruption

When the unit is turned off using the power button, the power supply to the unit is not completely stopped.

To completely stop the power supply to the unit, unplug it from the wall outlet.

Place the AC adaptor close to the wall outlet so that you can quickly unplug it when becoming aware of a problem.

If you have questions or problems, read this document, Start Guide, and Help Guide (Web operating instructions) thoroughly again. If the answer is not found, consult qualified Sony personnel.

On cleaning

- Be sure to unplug the unit from the wall outlet before cleaning.
- If the unit is rubbed hard with a dirty cloth, the unit may be scratched.
- If volatile liquids such as insecticide are sprinkled on the unit, or an item made of rubber or vinyl stays in physical contact with the unit for a long time, the unit may be affected or the surface color may fade.
- Do not touch the projection window with bare hands.
- To clean the surface of the projection window:
 - Gently wipe it with a soft cloth such as an eyeglass cleaning cloth. If there are stubborn stains, wipe them up with a cloth moistened with water. Never use alcohol, benzene, thinner, acidic cleaning agents, alkaline cleaning agents, abrasive cleaning agents, chemical dust cloths, and so on.
- To cleaning the exterior:
 - Gently wipe it with a soft cloth. If there are stubborn stains, wipe up the stains with a soft cloth which has been soaked in diluted neutral detergent and thoroughly wrung out, then wipe the exterior again with a dry cloth. Do not use alcohol, benzene, thinner, and so on.

Notes on wireless LAN

Sony is not liable for any loss or damage caused by loss or theft of the unit resulting in unauthorized accesses to or abuse of the equipment which is incorporated into the unit.

Notes on wireless LAN security

- Always make sure that you are using a wireless LAN that is secured against hacking, access from malicious third parties, and other vulnerabilities.
- Proper security setting for a wireless LAN is very important.

- Sony is not liable for any loss or damage caused by security problems resulted from failing to take security countermeasures, or unavoidable circumstances due to specifications of the wireless LAN.

Specifications

Portable Ultra Short Throw Projector (LSPX-P1)

■ Projector

Display system
SXRD/three primary colors liquid crystal shutter projection system

Display device
0.37 inch SXRD × 1
1366 × 768 pixels

Projection image size
22 inch to 50 inch

Light source

Laser diode

Light output
100 lm

■ Audio

Speakers

Approx. 25 mm diameter × 2 (monaural) bass reflex system

Amplifier

2 W × 2 W monaural (total harmonic distortion 10%, 1 kHz, 4 ohms)

■ Wireless communication

Wireless LAN
IEEE 802.11a/b/g/n (2.4 GHz band, 5 GHz band), MIMO compatible

Bluetooth
Bluetooth 4.0 (Bluetooth Low Energy)

■ Others

Operating temperature

5 °C to 35 °C (41 °F to 95°F)

Built-in battery

Lithium-ion battery

Dimensions

Approx. 81 mm × 131 mm × 131 mm (3.19 inches × 5.26 inches × 5.16 inches) (width × height × depth)

Mass

Approx. 930 g (2 lb 0.80 oz)

Wireless HDMI Unit (LSPX-PT1)

■ Input/output

Video

HDMI IN × 1
HDMI OUT (pass-through) × 1

IR blaster output

Mini jack

■ Wireless communication

Wireless LAN

IEEE 802.11a/n (5 GHz band), MIMO compatible

■ Others

Operating temperature

5 °C to 35 °C (41 °F to 95 °F)

Dimensions

Approx. 135 mm × 32 mm × 135 mm (5.32 inches × 1.38 inches × 5.32 inches) (width × height × depth)

Mass

Approx.200g (0lb 7.06oz)

Supplied accessories

AC adaptor VGP-AC19V77 (1)
AC adaptor LSPX-AC5V2 (1)
Power cord (2)
IR Blaster (1)
Startup Guide (1)
Reference Guide (this document) (1)
Warranty (1)

Optional accessories

Floor stand LSPX-PS1

Design and specifications are subject to change without notice.

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HDMI



(Only as for projection)

Model name: LSPX-P1