

Warnings and Safety Precautions

The following information is intended to maintain user safety and prevent property damages or accidental harm. You must read it carefully and use the product correctly.
※The warnings and precautions may be classified according to the following expected level of risk and damage when the user does not use the product correctly.

⚠ Warnings

Violating the following warning signs may result in death or serious injury.

Do not drop the product in water or store in humid places. The product is not water proof. If exposed to moisture or water, it may cause fire or electrical shock.

Do not place any object on the top or cover the product. It may damage the product or cause malfunction.

Do not expose the product to direct sunlight or apply excessive heat to it by using a furnace, microwave oven or hair dryer. It may explode, cause deformation or malfunction.

Do not install the product in a dusty place. It may cause fire.

Do not place the product near flammable sprays or materials. It may cause fire or electrical shock.

Do not insert hair pins or other types of metals or easily ignitable materials such as paper, or match sticks into the product. It may cause fire or electrical shock.

Never open the cover of the product. An insulation voltage located inside the product is very dangerous.

The user should never install, disassemble or remodel the product on their own. If the user installs, disassembles or remodels the product, it may cause malfunctions. The user will be solely responsible for the consequences.

If the product malfunctions, do not operate the product. If any debris or water enters the product, or if the product begins to smoke, power off and consult the sales agent.

Do not cover the ventilation hole with table covers or curtains. Increasing internal temperature may cause fire.

When using the product, maintain stable temperature (0 to 40 degrees). The product performance may degrade or cause hardware damage.

Do not install the product at a windy or rainy location such as a the shower or in a humid location where water may splatter on the product. It may cause fire or electrical shock.

If you smell smoke or other strange odors, stop use immediately and power heat off the product, then unplug the power from the outlet. If you continue use, it may cause electrical shock or fire.

If any debris or water enters the product, press the power button on the main body of the wireless device then unplug power from the outlet, and consult the sales agent. It may cause fire or electrical shock.

Do not stare directly into the lens while product is operating. It may emit strong light rays causing damage to your eyes.

⚠ Cautions

If cautions are violated, it may lead to injury or property damage.

Do not touch the product with wet or oily hands. It may damage the product or cause malfunction.

Do not place the product near a magnet or source of EMI. It may damage the product or cause malfunction.

Do not obstruct light emitted from the product lens with books or other objects. If the product emits light on an object for a long duration, it may overheat the object and lead to fire. In addition, the reflected light may overheat the product and cause damage to the product.

Do not apply excessive impact on the product. It may damage the product or cause malfunction.

The screen should be about five to seven times the length of the screen diagonally located from the viewer. If user sits too close to the screen for a long duration, it may degrade your vision.

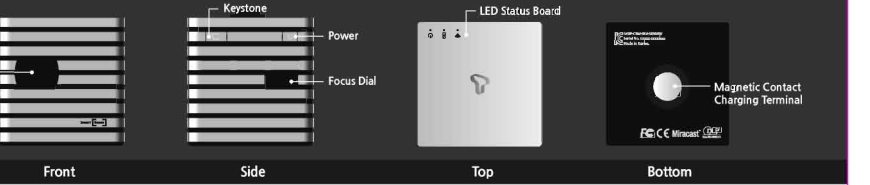
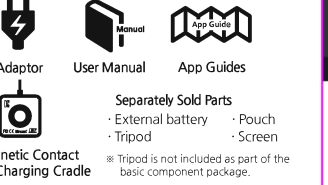
Product specifications and certification information

Product Specifications
Display type DLP / Max brightness 60 ANSI Lumens / Resolution WVGA (854 x 480)
Aspect ratio 16:9 Screen size 5.5 inch @ 2m / projection ratio 1.6 / up projection rate 100%
Keystone vertical(Auto Keystone)LED lifetime max 30,000 hours / video input Miracast, SmartBeam Wireless / weight 215g Audio Built-in Speaker / size 54 x 54 x 54(mm)
power supply DC 5V, 3A

Components

The product components are subject to change, without prior notice, for purposes of performance improvement. Basic components are included and separately sold components may be purchased separately.

Basic Components



Smart Beam Component Names

Name and Function of Each Component
Power: If you press and hold the power button for three seconds, the power will turn on or off.
Focus dial: Allows user to adjust focus of the projected image.
Lens: This is where image is projected through.
Keystone: If changes in projection angle distorts the projected screen to a trapezoid shaped, this functions to automatically adjust the screen to a normal rectangular screen by adjusting the keystone value.
LED status board: 3 different LED indicators to display current product status. (Power, Battery, Wi-Fi)
Magnet contact charging terminal: It is a charging terminal that supplies power to the magnet contact.
※ The exterior may look different from the actual product. (Product is subject to change without prior notice for the purpose of improving product performance.)

Information
· The charging time is based on time consumed using an authentic charger provided by the manufacturer.
· If you use an unauthentic charger to charge your battery, it may explode or cause malfunction.
· If the battery level is low, then the battery LED and icon display empty.
· If there is no battery power, the SmartBeam will not power on even if it is connected to a charger.
· Before powering on the device, charge the battery for at least several minutes.
· You should use a KC certified standard charger provided by the manufacturer.
· If user uses an unauthenticated product, complementary service may not be provided and may lead to malfunction.
· When the battery does not charge, use a soft cloth to wipe off the magnet contact terminal at the bottom of the product and the magnet contact of the charger pad before use.
· Pay special attention to keep the magnet contact from coming touching water.
· Make sure that the magnet contact does not directly touch your credit card or other cards.

Regarding the LED Status Display

The battery does not charge, use a soft cloth to wipe off the magnet terminal at the bottom of the product and the magnet contact of the pad before use.

Special attention to keep the magnet contact from coming touching water.

Ensure that the magnet contact does not directly touch your credit card or cards.

charge time and standard use time

Charging Time

Charging not Required

- The red sign indicates that the battery level is below 40%.
- When the red sign appears, it means that the battery level is low and power may be cut off. You must connect a sub battery or charge your battery.

Item	Status Information	LED Status
	Power On	Blue On
	Power Off	Light Off
	Battery level: 70~100%	Blue On
	Battery level: 40~69%	Green on
	Battery level: 10~39%	Red on
	Battery level: 1~9%	Red flickering
	Battery charging level (3 levels)	Red -> Green -> Blue
	Battery discharging	Light Off
	Miracast / AirLink connected	Blue on
	Miracast / AirLink connecting	Blue flickering(every0.5sec)
	Miracast / AirLink connection pending	Blue flickering(every1 sec)

Charging Time	Approx. 4 hours
Standard time of use	Average time of use : 2 hours

Battery charge time and standard use time
The red sign indicates that the battery level is below 40%.
When the red sign appears, it means that the battery level is low and power may be cut off. You must connect a sub battery or charge your battery.

Charging Time	Approx. 4 hours
Standard time of use	Average time of use : 2 hours

Charging the battery
Make sure to charge it sufficiently before use.
Use the magnetic contact charger to sufficiently charge the battery when you use it for the first time after purchasing the smart beam or after long duration of dormancy. (Refer to the connection shown in the left figure.)

Status Indicator Bar

The status indicator bar displays the status icon or the notices from the SmartBeam.

Condition of the beam connected to smartphone HotSpot
Condition of the beam connected to an external Wi-Fi hub
Rx condition of the Wi-Fi network where the beam is connected (Display Each Phase : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100)
Rx condition of the Wi-Fi network where the password is set (Display Each Phase : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100)
System battery level and status displays (Display Battery Status : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100)
Displayed when sub battery is mounted

Things to check before using NFC functions

To use the SmartBeam by utilizing the NFC function, enter the [Setting] menu on your smartphone and activate the Read NFC/Write NFC mode.



Connecting to the SmartBeam using the NFC

First, check whether your Android phone supports the NFC function. NFC tagging operation method : When the NFC tag mounting area located at the top of the device is tagged, it is recognized and operates.



- When initial NFC tagging operation takes place, you will be directed to the Play store where you may download the SmartBeam app.
- When the SMART BEAM runs, you may connect to Miracast or AirLink to use the SmartBeam via Wi-Fi.

Installing the App

Installing the Android App

- Search for "Smart Beam".
- Press "Install" and "Agree" button.

Installing Using the NFC

When initial NFC tagging operation takes place, you will be directed to the Play Store where you may download the SmartBeam app.

Installing the iPhone App

Installing via App Store

- Press the "Install" button.

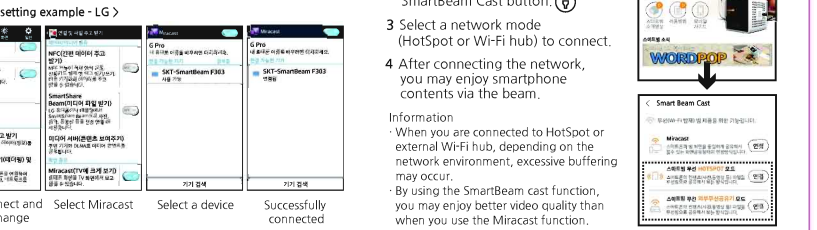
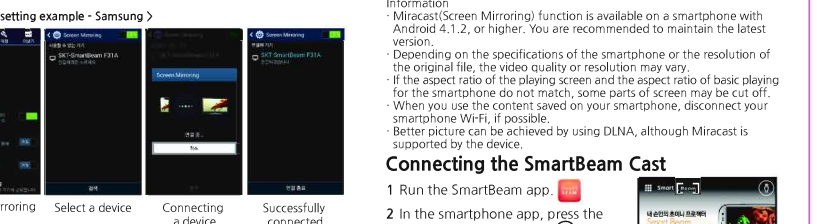
How to connect Miracast(manual)

Activate the Miracast function on your smartphone Depending on the smartphone maker, the name of the Setup function may vary.

Manufacturer	Names of Setting Functions	Smartphones that Supports Functions
Samsung	Environment Setting > Connect > Screen Mirroring	Smartphone with Android 4.1.2 or higher that has the Miracast (Screen Mirroring) function in it.
LG	Environment Setting > Connect and File Exchange > Miracast	
Pantech	Environment Setting > More Network > Miracast	
Google	Environment Setting > Display > Screen Transmission	

Connecting the smartphone to the beam

If you activate the Miracast function in the Environment Setting menu of your smartphone, it will automatically search for available connectable devices. On the search screen, select a SmartBeam device. When a connection is made, the smartphone screen will be projected via the beam screen.



Making a Wi-Fi connection to the laptop

Making a Wi-Fi connection from your laptop to the beam

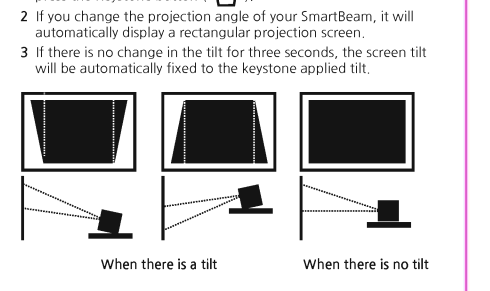
- On the laptop where Windows 8.1 O S is installed, press the Window key + K.
- In Device menu, click on "Project".
- Click on "Add Wi-Fi Display".
- In the Add Device menu, select the device name, "SKT-SmartBeam xxxx" and try to connect.



Making a Wi-Fi connection to the laptop

Making a Wi-Fi connection from your laptop to the beam

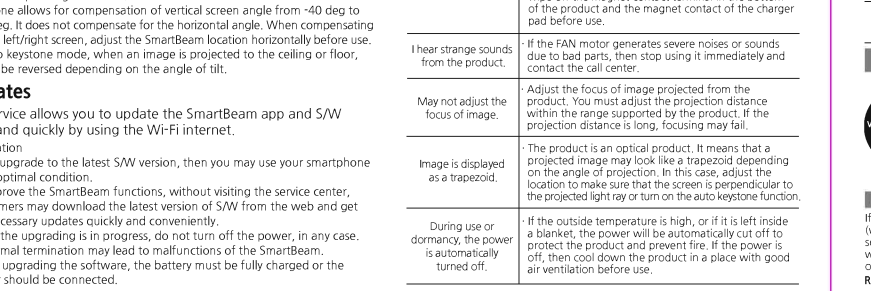
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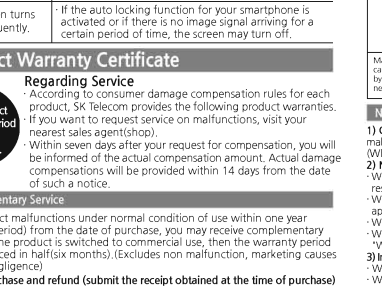
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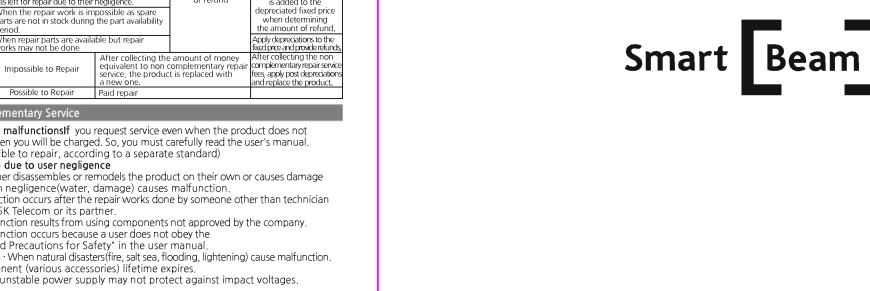
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Smart [Beam] Wireless

www.tsmartlearning.com/SmartBeam

SmartBeam customer center: 1670-0110

Important Informaion

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

15.105(b) 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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

End users must follow the specific operating instructions for satisfying RF exposure compliance.

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

This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.