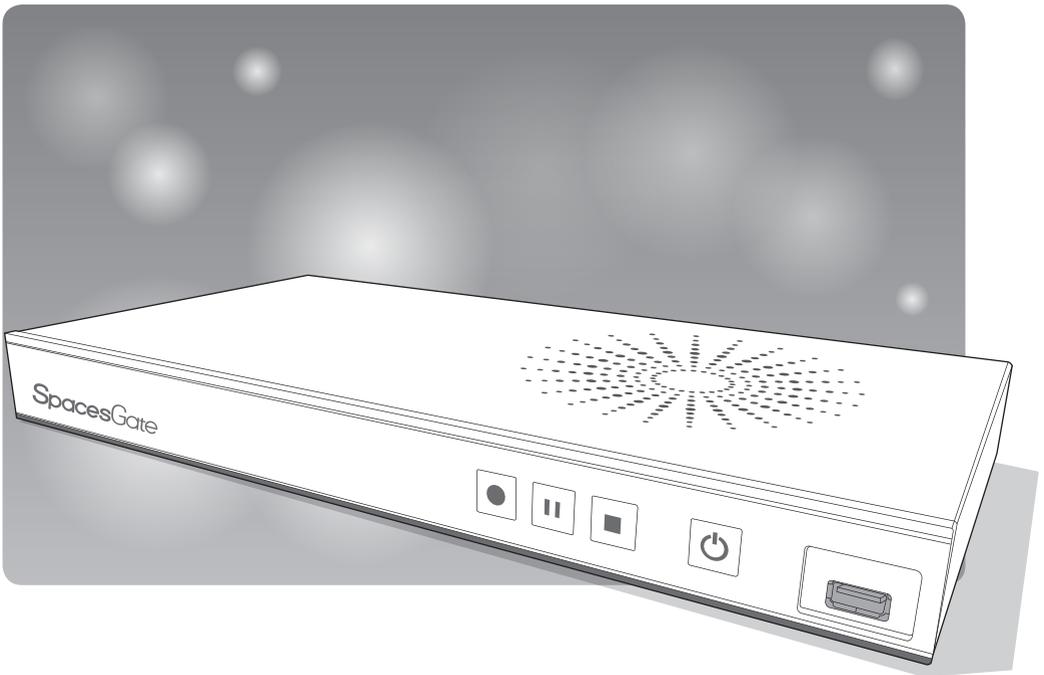


SG-1

Media Collaboration System

Quick Installation Guide | English



**FCC****Federal Communication Commission interference statement**

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.

RF Exposure Warning

The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC Caution

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

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

Notice: Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

**CE**

Hereby, AREC Inc., declares that this Media Station is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

**CB****CAUTION**

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type.

- the ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.:
- no naked flame sources, such as lighted candles, should be placed on the apparatus;
- attention should be drawn to the environmental aspects of battery disposal;
- the use of apparatus in tropical climates.

The instructions for use shall state that the apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

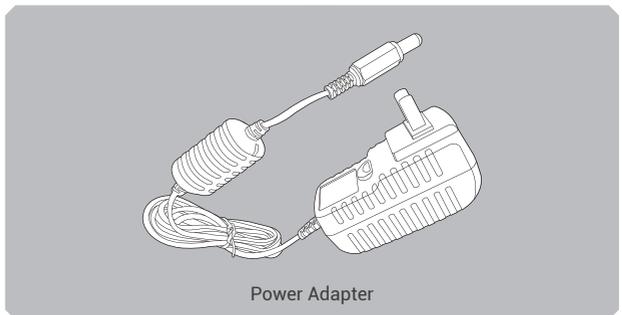
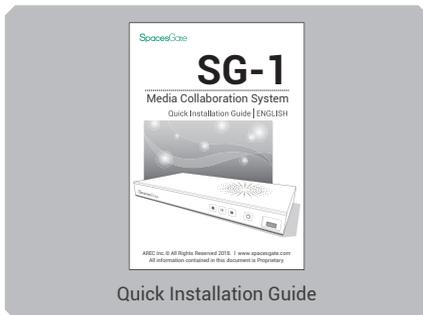
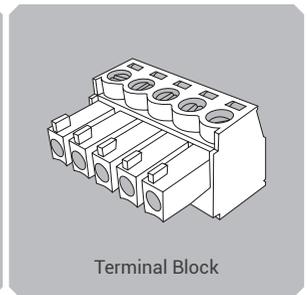
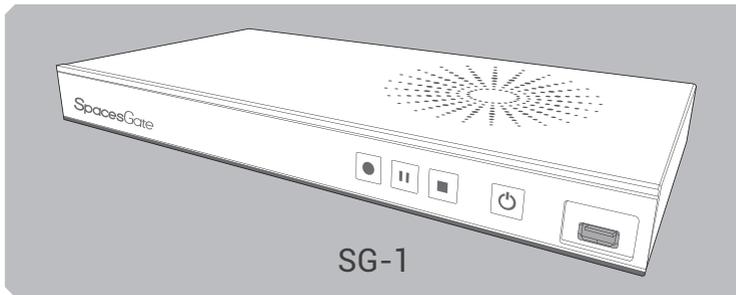
Introduction

Based on the new concept of Team Communication and Collaborative Spaces, SpacesGate SG-1, a new and innovative Media Collaboration System, changes the way we engage in a project meeting or remote training. SG-1 system can bring people together from different places for visual communication, presentations, knowledge sharing and collaboration in real-time, making it is easy to solve the business challenges agilely and effectively.

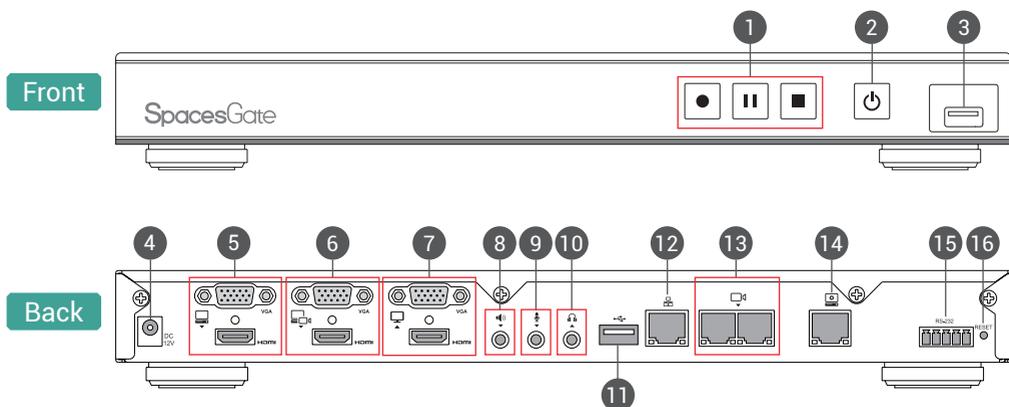
Specifications

Product Name	Media Station
Model Name	SG-1
Dimension	354mm(L) x 188.2mm(W) x 46mm(H)
Weight	1710g
Power Requirement	12V/2A
Power Consumption (Max.)	24W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C / 90%
Maximum normal load description	Insert 1 IP CAM to LAN port and insert 2 video signals (either HDMI or VGA input). Using external USB flash to record the transcoded video/audio. And output the transcoded video/audio to both HDMI and VGA port.

Package Contents



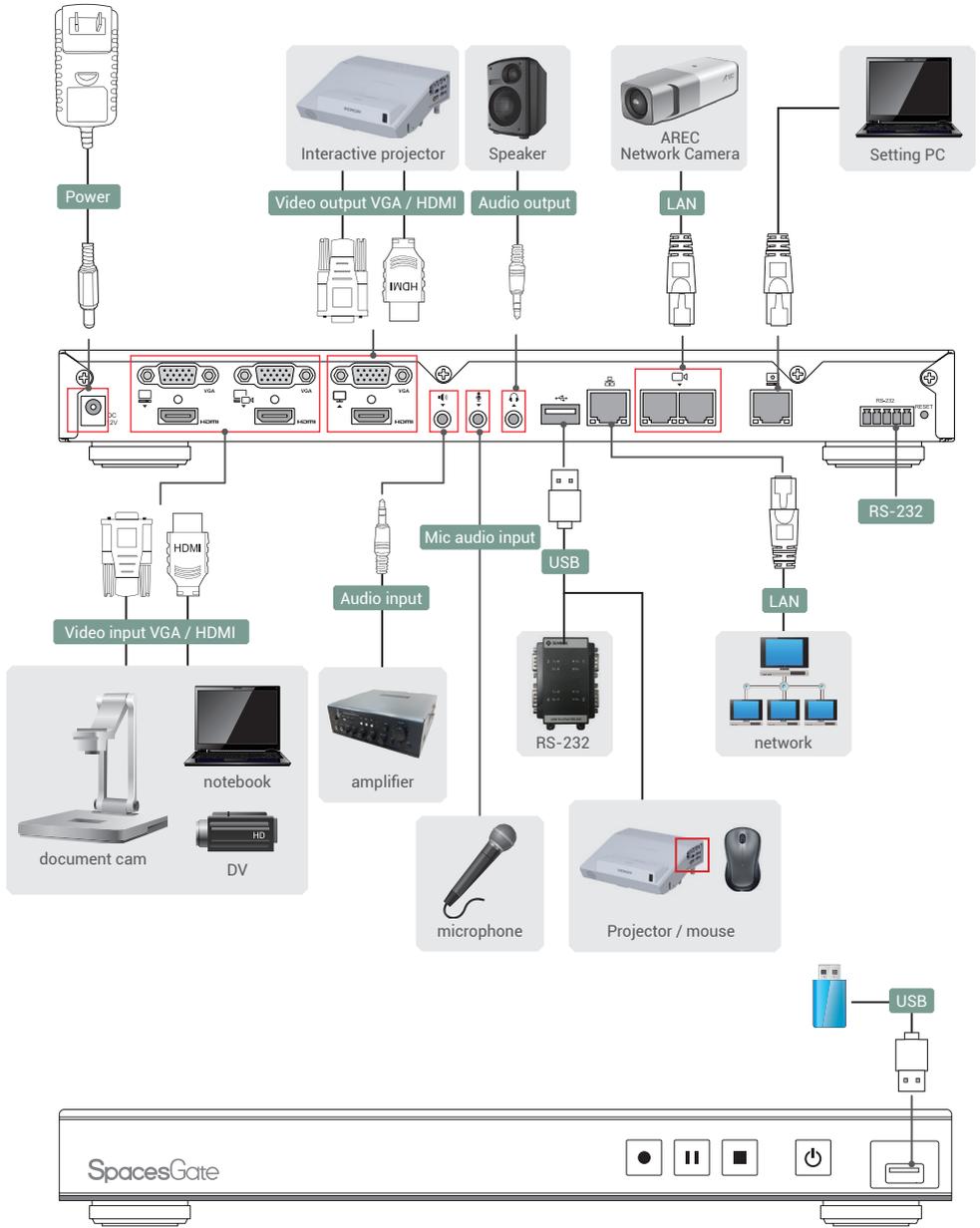
Product Appearance



No.	Name	Brief introduction
1	Record function keys	Control the Record, Pause, Stop function
2	Power	Power on/off the device
3	Front USB port	1. For external USB storage device* 2. Firmware update through USB disk
4	Power port	12V / 2A
5	Video input	VGA / HDMI input source for PC []
6	Video input	VGA / HDMI input source for camera []
7	Video output	VGA / HDMI preview output
8	Audio input	Line audio input
9	Audio input	Mic audio input
10	Audio output	Line audio output
11	Back USB port	1. USB interface for camera control over RS-232 2. Support HID Protocol for Interactive Projector
12	Network port	RJ-45 Ethernet connector for network connection
13	Network camera input	RJ-45 Ethernet connector for network camera input source
14	Setting port	RJ-45 Ethernet connector for device configuration and control
15	RS-232	Captive screw connector for control over RS-232
16	Reset button	Restoring devices to its factory default state

NOTE: The SG-1 can detect and record to USB storage devices using FAT32, NTFS file systems.

Connection



Front Panel Buttons and Indicators

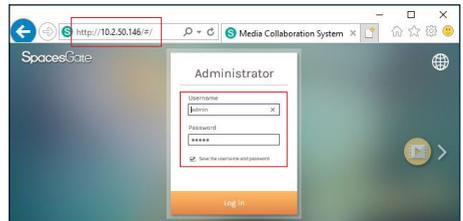
Button	Display method of indicator	Product status
   Record / Pause / Stop	Record button glows red continuously.	Recording in progress.
	Record button flashes red rapidly.	Recording is paused.
	Record button flashes red slowly.	Recording is being finalized.
 Power	Solid red.	Device is powered, yet not booted up.
	Green and red light flash alternately.	Device is booting up.
	Solid green.	Boot up completed.
	Fast flashing red.	Device is shutting down.
	Fast flashing green.	Firmware updating.
	Slow flashing red.	Fan is abnormal.

Getting start

Connect PC to the setting port of SG-1 with standard network cable. Open up the browser, and input 192.168.11.254 in the browser page. Connect mobile device to SG-1, your device is added the segment and the segment is consistent with the IP address of the SG-1. Get IP address from About option in Setup item of the host output interface main menu and input it in the Browser page.



Log in Administrator  with default username admin and password admin, then entering the system Administrator webpages.



Setup Video inputs

The SG-1 is capable to process up to one video input. The name of the input is user configurable; by default is Cam 1.



Name :

Signal type :

Network Camera
▼

IP address :

▼

PTZ control :

Over IP
▼

Apply

- **Signal type** can be selected from [Network Camera](#), [Encoder](#) or [Video port](#).

Video port	Select Video source: The SG-1 provides VGA and HDMI input options for video port.
Network Camera	Select IP address: Select from the camera ip address drop list of those available. Note: A login authentication with the camera might be required. See Media I/O\ Camera manager for more details.
Encoder	Select Protocol: The available options are UDP, RTP, RTMP, or RTSP. Enter the primary and secondary URL/port number.

- **PTZ control** : The SG-1 is highly integrated with PTZ cameras and provides two control methods, Over IP or via Serial port and Auto-Tracking Mount.

Serial port	Select this option when the appointed camera uses RS-232 PTZ control protocol. Then complete the Serial port selection from drop list Port 1~4. See Media I/O\ PTZ control port for more details.
Over IP	The option is available when the specified signal type is a network camera. Select this option if that camera supports networking PTZ control.
Auto-Tracking Mount	Select IP address: Select from the TP-100 ip address drop list of those available. Select Tracking mode: off / Auto-Tracking / Auto-Tracking (pan only), the default is the Auto-Tracking. Note: A login authentication with the TP-100 might be required. See Media I/O\ Network device manager for more details.

Setup Network device manager

The system automatically scans and lists the network cameras and Auto-Tracking Mount connected to the SG-1 once entering the [Network device manager] page. You may click Refresh button to scan again. Click Login button and the login authentication dialog pop out.

Enter the username and password of the camera or Auto-Tracking Mount to complete the authentication. Take AREC network camera for example, enter the default username and password admin/ admin. The status then changes to OK, which indicates it is available for video input selection.

Note : If you fail to find your camera by clicking on "Refresh", please select "Signal type" to "Encoder" in the "Video Inputs" and fill in your camera information.

The screenshot shows the 'Network device manager' page. On the left is a navigation menu with categories: Media I/O, Video, Storage, Upload, Conference, System, and Account. The main content area is titled 'Network device manager' and contains two sections: 'Network Camera' and 'Auto-Tracking Mount'. Each section has a 'Refresh' button and a table listing devices with columns for Host name, IP address, MAC, Manufacturer, and Status. In the 'Network Camera' section, two devices are listed, both with a status of 'OK'. In the 'Auto-Tracking Mount' section, one device is listed with a status of 'OK'.

Host name	IP address	MAC	Manufacturer	Status
CI-200	10.2.50.134	00:D0:89:0E:51:63	CI-200	OK
CI-200	10.2.50.141	BC:BA:E1:A0:05:91		OK

Host name	IP address	MAC	Manufacturer	Status
TP100	10.2.50.136	BC:BA:E1:01:02:09	AREC	OK

The screenshot shows a 'Login authentication' dialog box. It has a title bar with a close button (X). The dialog contains two input fields: 'User name :' and 'Password :'. Below the input fields is a green 'Authentication' button. The background shows a blurred view of the 'Network device manager' interface.

Setup Audio

Adjust volume and select the audio input source.

The screenshot shows the 'Audio' configuration page in the SpacesGate web interface. On the left is a dark sidebar menu with options: Media I/O, Video inputs, Network device manager, PTZ control port, Audio, Display, Video, Storage, Upload, Conference, System, and Account. The main content area is titled 'Audio' and contains two sections: 'Input volume control' and 'Output volume control'. Each section has a 'Default' button in the top right corner. The 'Input volume control' section includes 'Audio input 1' (set to 'Line in and HDMI 1') and 'Audio input 2' (set to 'Mic in and HDMI 2'), both with volume sliders at 100. Below these is a 'Current volume' indicator with a speaker icon and a bar graph. The 'Output volume control' section includes 'Line output' and 'HDMI output', both with volume sliders at 100. At the bottom of this section is an 'Audio output loop through' toggle switch, which is currently turned 'on'. An 'Apply' button is located at the bottom left of the configuration area.

Input volume control- Tune the recorded volume from each audio input. Configurable range of sound input is 0-125. The nearby volume meter indicates the encoded audio current volume.

Output volume control - Adjust the audio output volume. Set Audio output loop through on/ off.

System settings

The basic information and initial date/time of this device are configured here.

- Media I/O
- Video
- Storage
- Upload
- Conference
- System
 - System settings
 - Network
 - Firmware
 - Configuration
- Account

System settings

Device identification

Device name : Device name follows RFC-952 internet host table specification.

Device description :

Manufacturer : AREC Inc.

Model : SG-1

Serial number : TBBF09021274

MAC : BC:BA:E1:02:0E:98

Date and time

Device current date and time : 2018-03-16 18:03:59

Time zone : ▼

Setting mode : ▼

Boot image

File format : PNG
 Size (Max.) : 3 MB
 Resolution(Max.) : 1920x1080

Power

Power mode : ▼

Device identification – Set the name (host name) and description for this device.

Date and Time – Set the device date, time, and time zone manually/ be synchronized to PC, or with an external NTP (network time protocol) server.

Boot image – Change the boot screen image. The boot screen is the image you will see when you boot up the device.

Click **Browse** button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click **Apply** button at the bottom corner to apply the settings, or click **Cancel** Cancel to give it up.

Power – Choose how to turn on the device

Note: The boot screen file must be in PNG format, maximum size 1920x1080px.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

Important Security Policy

Precautions

1. Please open the product package carefully; we commend you keep this packaging for future transport, storage or maintenance use.
2. There are no switches or adjustment buttons required for operation inside this product, so for your safety, please do not open the casing on your own, or vigorously rotate, shake or use any other inappropriate ways to operate this product in order to avoid electrical shocks and voiding the warranty. You can contact a local dealer directly if you have any questions.
3. Heat will be generated during the use of this product; therefore there must be sufficient ventilation for the temperature of the unit to remain at a stable status. So please use the product under normal environments to prolong the usage life, and avoid installing it in the following environments.
 - Locations that are unstable or have incomplete planes
 - Locations with powerful magnetic fields
 - Locations where it is damp or may have water leakage
 - Locations that are too hot, close to heaters and air hoses, or be exposed to direct sun light for long periods of time
 - Locations that are dusty
 - Locations where there are possible shocks
 - Locations close to power amplifiers
4. If you notice smoke or odor coming from the product, please quickly remove the power cable and send it to a maintenance center for processing.
5. To avoid electrical shock, the plug of the adapter should be stably and completely inserted into the power outlet and cannot be exposed; it must also have sufficient capacity to withstand the current transmission. Please do not plug the adapter into the power outlet before connecting the cable in order to avoid danger.
6. If not used for long periods of time, please unplug the power plug, and to ensure electrical safety, when unplugging the adapter, please hold the plastic part of the adapter with dry hands and then unplug the adapter. Please properly connect the cables according to the printed instructions on the installation manual and the machine to ensure optimized usage effects.

SpacesGate

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Made in Taiwan

Date : 2018.3.1

Version: 7.1

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