# SG-1T Media Collaboration System User Manual | English



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# SG-1T User Manual

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### SG-1T User Manual

### **Spaces**Gate

### Introduction

Based on the new concept of Team Communication and Collaborative Spaces, SpacesGate SG-1T, a new and innovative Media Collaboration System, changes the way we engage in a project meeting or remote training. SG-1T 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-1T
Dimension	354mm(L) x 188.2mm(W) x 91.35mm(H)
Weight	2708g
Power Requirement	12V/3A
Power Consumption (Max.)	36W (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 HDMI port.

### **Package Contents**



www.spacesgate.com

### **Product Appearance**



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

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### Connection



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### **Front Panel Buttons and Indicators**

Button	Display method of indicator	Product status
	Record button glows red continuously.	Recording in progress.
	Record button flashes red rapidly.	Recording is paused.
Record / Pause / Stop	Record button flashes red slowly.	Recording is being finalized.
	Solid red.	Device is powered, yet not booted up.
d.	Green and red light flash alternately.	Device is booting up.
Ċ	Solid green.	Boot up completed.
Power	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-1T with standard network cable. Open up the browser, and input 192.168.11.254 in the browser page.

Connect mobile device to SG-1T, your device is added the segment and the segment is consistent with the IP address of the SG-1T. 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.



### **Overview of the Web Interface**

SG-1T web interface has three user types, which are described in detail in the following chapters :

Mini Controller	For mobile device quick start recording, log in Mini Controller from the initial login page with default username admin and password admin.
Administrator	To setup the device, log in Administrator with default username admin and password admin, then entering System Administrator webpages. The admin account provides the user all three type of privileges.
Video Manager	If you only need to access to the recordings, log in Video Manager with default username video and password video. Log in with Administrator account, can switch to Administrator page.

Mini Controller Username Password Log in	Administrator Username admin Password Save the username and password	Video Manager Username 
Log in <b>Spaces</b> Gate	Save the username and password	Save the username and password

### **Chapter 1 Administrator**

The Administrator web pages provide a system administration interface of the SG-1T: it can perform Media I/O, Video, Storage, Upload, Conference, System, Account settings and confirm operations. The Media I/O settings make sure each input source are properly connected, and adjust the audio volume. The Video setting pages configure the recording, streaming, and other functions which define the content being recorded. Systems are pages contain basic settings and information of this device.Click 📦 icon can switch to Video Manager page.

S	o <b>aces</b> Gate						SG-1_020406_Londo Administrato	n 🗈	
•••	Media I/O	~ v	ideo inputs						
	Video inputs		•					•	1.
	Network device manager		0						¢Τ
			Name :				Video Sou	ce: 10.2.50.	.106
			Cam I		×				
	Display		Video Source :						
	Video	>	Network Camera	 	$\sim$				
_	Storage		IP address :						
±	Upload		10.2.50.106(CI-200)		$\sim$				
ς.	Conference		PTZ control :						
×	System	>	Over IP		$\sim$				
•	Account	I.	Apply						

#### 1.1 Media I/O

The pages within Media I/O include the following :

S	<b>paces</b> Gate		SG-1_020406_London 💿 🧿
•••	Media I/O 🗸 🗸 🗸	Video inputs	
	Video inputs	0	îîț
	Network device manager PTZ control port	Name :	Video Source : 10.2.50.106
		Cam 1 X	
	Display	Video Source :	
	Video >	Network Camera	
	Storage	IP address :	
±	Upload	10.2.50.106(CI-200)	
٩,	Conference	PTZ control :	
×	System >	Over IP	
•	Account	A999	

Video inputs	Select the signal type, video source and PTZ control method for each input.
Network device manager	List out all the connected network cameras and Auto-Tracking Mount.
PTZ control port	Set SG-1T USB to-RS-232 serial port to drive PTZ cameras.
Audio	Adjust the volume and select the audio input source.
Display	Set the SG-1T on screen display language and color adjustment.

#### 1.1.1 Video inputs

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

Name :	
Cam1	
Signal type :	
Network Camera	$\sim$
P address :	
10.2.50.120(CAMERA-1)Connected	$\sim$
PTZ control :	
Over IP	$\sim$

#### 1.1.1.1 Cam 1

Signal type can be selected from Network Camera, Encoder or Video port.

Video port	Select Video source: The SG-1T 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, Network device manager for more details.
Encoder	Select Protocol: The available options are RTP, RTMP, or RTSP. Enter the primary and secondary URL/port number.

PTZ control : The SG-1T is highly integrated with PTZ cameras and provides three 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.

#### 1.1.1.2 Advanced configuration

A preview use and further configuration of the video input is provided. After the video input setting is successfully applied, click of to enter the advanced configuration page. In the case of a PTZ camera, the direction control panel, zoom in/out control bar, and up to 8 preset positions are enabled.



- 1. The video input preview.
- 2. Direction control panel: Click the arrow buttons to move the camera.
- 3. Movement speed: Move leftward or rightward to set slower or faster the camera is moving.
- 4. Zoom in/out: Click the buttons or drag on the control bar.
- 5. Preset positions: Click the buttons to command that the camera go to the preset position.
- 6. Change preset: Click the button to modify the preset positions. Select any of the P00~P07, move the camera to the desired position by using the direction control panel or using the zoom in/out control. Click Save button to complete the change or click Cancel button to give it up.
  - Note: If you use AREC CI-xxx network camera with TP-100, you can change preset of TP-100's Home.
- 7. Brightness, sharpness, and contrast: Slide the adjustment bar left or right to change the camera image settings.
- 8. Visit the camera website: Click this (Visit the camera website) button to enter the webcam management web site, input the verification code as prompted.
- 9. Click ← button at upper left corner to return to the last page.

#### 1.1.2 Network device manager

The system automatically scans and lists the network cameras and Auto-Tracking Mount connected to the SG-1T 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.

**	Media I/O 🗸	Ne	twork device	manager					
	Video inputs								
	Network device manager		Network Camera	9					
	PTZ control port		👌 Refresh	LAN	WAN				
	Audio								
	Display		Host name	IP address	MAC	Brand	Status	Connected	
	Video	>	CAMERA-1	10.2.50.120	E4:77:D4:03:8E:74	CIPNC	ОК	ОК	
	Storage								
±	Upload								
٩.	Conference		Auto-Tracking N	lount					28
×	System >	>	👌 Refresh	LAN	WAN				
	Account				2.22				
			Host name	IP address	MAC	Brand	Status	Connected	
			-		No Auto-Tracki	ng Mount(s).			

	Login authentication X	
	User name :	itatus
►	Password :	
►		
	Authentication	

#### 1.1.3 PTZ control port

The SG-1T facilitate the web-based users control PTZ cameras using RS-232 protocol. Connect an USB-to-RS-232 adapter to the SG-1T USB port in advance. Before making any changes to this page, please get to know about the RS-232 settings of the desired PTZ camera. The following configurations must be identical to the external device settings.

- Protocol : Available options are VISCA, PELCO-D, and PELCO-P;
- Address : Set according to the camera address for RS-232 communication. VISCA: 1-7, PELCO D/P. 1-255;
- Baud rate : 2400, 4800, 9600, and 115200

Note: Support USB to RS-232 serial port adapter with chip PL2303 or FT4232H.

**	Media I/O	~	PTZ control port	
	Video inputs		Port 1	
	Network device manager		8-11 8-	_
	PTZ control port		Protocol :	
	Audio		VISCA	
	Display		Address :	
	Video	>	1	
	Storage		Baud rate :	
•	Unload		9600	

#### 1.1.4 Audio

Adjust volume and select the audio input source.

**	Media I/O	~ /	Audio	
	Video inputs			
	Network device manager		Input volume control	Default
	PTZ control port		Audio input 1	
	Audio		Line in and HDMI 1	
	Display		III) 100	
	Video	>	Audio input 2	
-	Storage		Mic in and HDMI 2	
±	Upload		100	
\$	Conference			
×	System	>		
-	Account	14		
			Output volume control	Default
			- Line output	
			u(1) 100	
			HDMI output	
			I(1) 100	
			Audio output loop through : 📎	
			Apply	

Input volume control-Users can select the sound source from the drop-down menu of Audio input 1 or Audio input 2. 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 Line output or HDMI output volume.

Set Audio output loop through on/ off.

#### 1.1.5 Display

Set the SG-1T on screen display language and color adjustment.

**	Media I/O 🗸 🗸	Display
	Video inputs Network device manager	Display settings
	PTZ control port	On-screen language :
	Audio	English
	Display	
	Video >	Apply
	Storage	Sarran calar adjustment
±	Upload	
\$	Conference	нрмі
×	System >	Brightness 34
-	Account	Contrast 54
		Saturation 50
		Hue 52

#### 1.2 Video

The pages within Video construct a collection of settings that defines the operating characteristics for a streaming/ recording, include:

<b>*</b> ⇒ N	/ledia I/O	>	Recording
v	/ideo	$\sim$	
	Recording		Encoder settings
	Streaming		Recording mode :
	Content		MP4 Mixed video
	Theme		Video compression :
🚐 s	Storage		Full HD
<b>•</b> 1	Inland		Front LICD recording .
Reco	ording	Cor	figure Encoder settings and Bookmark settings for recording.
Strea	aming	Cor	figure Encoder settings for streaming.
Cont	tent	Edit	t the information of the content that will be recorded.
Ther	ne	Set	the overlay and background.

#### 1.2.1 Recording

Set up the Encoder settings, Bookmark settings, Recording file name setting and Audio settings for recording.

**	Media I/O >	Re	ecording		
	Video 🗸				
	Recording		Encoder settings		
			Recording mode :	Resolution :	Full HD 1920x1080
			MP4 Mixed video	Average bitrate : FPS :	4 Mbps 30
			Video compression :	GOP : H 264 profile :	30 hidh profile
	Storage		Full HD	Audio bitrate : Audio sample rate :	256 Kbps 44,1 KHz
±	Upload		Front USB recording :		
٩,	Conference		an		
Х	System >		Loop recording :		
2	Account		en		
		L	app)		

Encoder settings

- Recording mode: Available options are MP4 Mixed video and OFF.
- Video compression: There are 7 preset recording video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option.
- Front USB recording: Set ON/OFF to enable/disable SG-1T front USB recording function. Make sure the front USB drive connected can be normally read and written and have enough space for the recorded files.
- Loop recording: Set ON/OFF to enable/disable SG-1T local storage recording rule.

Profile name	Video Resolution/ Bitrate	Application description		
Full HD	1080p/ 4Mbps	Dynamic scene and large local hard disk recording.		
Internet Full HD	1080p/ 3Mbps	General scene and medium local hard disk recording.		
HD	720p/ 2Mbps	Static scene and small local hard disk recording.		
Internet HD	720p/ 1.5Mbps	Live broadcasting through the Internet.		
SD	480p/ 800kbps	Static scene for live broadcasting through the Internet.		
Mobile SD	480p/ 500kbps	Live broadcasting for portable mobile devices watching.		
User defined	Click button to open cus shown below, and click Save option changed.	tomization window as a button to make the set of the se		

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Bookmark settings : Set ON/OFF to enable to add

bookmark automatically. Click Apply button at the bottom

corner when finished to apply the settings.

Add automatically :

off

Prefix setting : Use this description is added to the Video

filename as a prefix string for Download and Upload.

Prefix setting :

Audio shift : Adjust the delay of sound after video
transmission. Synchronize the video and audio with
consistency.

Audio shift :

Audio shift :

Audio shift :

Image: Consistency in the intervideo of the video of the vid

#### 1.2.2 Streaming

The page provides user to change streaming settings. It is essential that the configurations follow the streaming protocol and recommended settings your server system supports.

Encoder settings	
Video compression : Internet HD	Internet HI Resolution : 1280x724 Average bitrate : 1.5 Mbp H.264 profile : high profil
Apply	
Streaming settings	
Live streaming :	
Live streaming :	
Live streaming :	

Video compression profile — There are 7 streaming video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option. Click ... button to open customization window as shown

below, and click Save button to make the option changed.

Click Apply button at the bottom corner when finished to apply the settings.

Note: The resolution for streaming cannot be larger than that for recording.

Note: Streaming resolution can equal to or less than the resolution of the record

Live streaming : Select OFF/ Together with recording/ Streaming always/ Independent streaming control to setting live streaming ability.

Together with recording : Streaming and recording simultaneously Streaming always : SG-1T always streaming

Independent streaming control : Enable streaming On/Off button on Mini Controller

Click ... button to open customization window as shown below, RTMP username/password and test for Wowza. Click Save button to make the option change.

Protocol - The available protocol on the SG-1T are RTP and RTMP, the URL format is as follows :

RTMP	In the protocol setting field, copy and paste the Server or Stream URL and Stream name provided by you CDN or server administrator in the format rtmp://serverurl/streamname.
RTP	Enter the destination IP address and the port number where the streaming is played in the format rtp://@ip:port. For example, rtp://@226.10.24.32:7000

Followings are some popular examples for streaming settings.

Streaming to Facebook Live

Copy the contents of the Single Field, Server or Stream URL, and paste in the SG-1T streaming URL setting field.

Sreate Live Video	×				
This will create a live video, streamed directly from your professional video equipment or encoding software. This is or creating live videos from your computer's webcam.	not				
Secure connection (SSL) A secure connection is better, but it may not work with all encoders.					
Depending on your streaming software, you will use either the Single Field or Separate Fields option below. Copy the contents of these text fields into your video streaming software's set-up fields. Learn more about live video					
Single Field					
Server or Stream URL () rtmp://rtmp-api.facebook.com:80/rtmp/1226317077418250?ds=1&s_l=1&a=AaZZ8P5Au7L8KN5F					



dvanc	ced settings	×
	Username :	
	Password :	
	Commention (set Source	

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#### Streaming to Ustream

Combine the contents of both fields: RTMP URL and Stream Key, insert a slash between them. Paste this string into the SG-1T streaming URL setting field. For example: rtmp:1.15059865.fme.stream.tv/ustreamVideo/15059865/5gmbz4RCa2 Hgt9SwtCYuCct6qS137Nar

USTREAM Categories	You Upcoming Pro Bro	adcasting				
probroadcastingdemo	Remote					
OVERVIEW PREMIUM SERVICES	Manual Entry Enter these values into the appro-	opriate fields in your en	Stream	Кеу:		
CHAINELS Pro Broadcasting Demo	RTMP URL: rmp://1.15059865.fme.ustre Stream Key: 5gmbz4RCa2Hgt9SwtCYuC	Undo Cut Copy Paste	5gmbz	4RCa2Hgt9SwtCY	Undo Cut	
ProBroadcasting7 🗗	P	Delete Select All	Flash M	Media Encoder	Copy Paste Delete	Jer
			Downloa	d the Flash Media	Select All	IS (

Streaming to YouTube Live

Combine the contents of both fields: Primary Server URL and Stream Name, insert a slash between them. Paste this string into the SG-1T streaming URL setting field.

Streaming to a media player on a PC in the same LAN with the SG-1T

Enter the destination IP address and the port number where the streaming is played in the format rtp://@ip:port.

Unicast: For a single point connection, the destination IP must be set to the location where the stream is played.

Multicast: The destination IP must be multicast IP address where it can be shared with multiple viewers.

The SG-1T use IP address: 239.0.0.1 and port number: 5004 as the stream default. The available range of port number is 1024 to 65535.

To view the stream from a media player, open the URL in a media player, such as:

🗀 File	💮 Disc	Network	🍯 Capture I	Device	
Network	Protocol				
Please en	nter a network	URL:			
rtp://22	7.241.154.12:	1234			
rtp://@ mms:/ rtsp:/b http://w	:1234 fmms.examples. erver.example.or rww.yourtube.or	cométrean.asx g: 8080Nest.sdp andratch?v=gg64x			
Show me	ore options			Play V	Cance

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### **Spaces**Gate

#### 1.2.3 Content

The SG-1T contains up to 13 user-configurable elements for describing content. These elements and texts will be saved in the recording data of the newly created content. Enter text in the content settings fields if desired. Click Apply button at the bottom corner when finished to apply the settings.

Note: These updates do not apply to the existing recordings. To edit the existing recording information, see Video Manager.

**	Media I/O >	Content
	Video 🗸	Content settings
	Recording	
	Streaming	Title :
	Content	
	Theme	Organization :
	Storage	Department :
<u> </u>	Upload	
۰.	Conference	Event_date :
×	System >	
2	Account	Semester :

#### 1.2.4 Theme

SG-1T by factory default provides three overlays and three backgrounds.

Overlay : Select and delete the overlay. Select and apply the overlay to default. Click [ ↔] 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.

Note: The overlay file must be in PNG format, maximum size 1920px\*1080px.

() many	line in	(a)	$(\bullet)$
			() man; ()

Background : Select and delete the background. Select and apply the background to default. Click [ () ] 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. Note: The background file must be in PNG format, maximum size 1920px+1080px.

Background 📎				
OFF	V	2	254	$(\mathbf{\bullet})$
<			>	1.000

Note: The user can use the mouse to drag the order of the display.

#### 1.3 Storage

The recording files produced by the SG-1T are stored on its own internal hard drive. This page provides user to set local storage drive and reveals the disk information in the lower section.

🐜 Media I/O 🛛 🗧	Sto	rage									
Video >		Record disk settings									
🚔 Storage											
1 Upload		Local storage :									
Conference		USB									
X System >		Apply									
Account											
		Disk information									
		Interface	Disk name	Brand	Capacity	Free Space	Format				
		USB1	USB	JetFlash Transcend 64GB	57.92 GB	57.18 GB	Format				
	_										

Record disk settings :

Disk information- Displays disk information, available storage space and total capacity. Click "Format" to clean up the local storage drive. A dialog box opens asking you to confirm the disk formatting. Click Confirm to permanently delete all recording packages.

#### 1.4 Upload

The SG-1T is able to automatically upload recordings from its internal drive to a network server. In this page, user can configure the upload destination and tests the connection.

**	Media I/O	>	Upload	
	Video	>		
	Storage		Upload settings	
±	Upload		Auto upload :	
\$	Conference		OFF	
×	System	>	Mode :	
	Account		FTP	
			IP address :	
			Port : Incorrect address format.	
			Folder :	
				Connection test
			Authentication :	
			Normal	
			Username :	
			I.	
			Password :	
			Apply	

Auto upload- Select from the drop-down list. Start uploading "after recording is completed", or turn "OFF" the function. Followings to be configured according to the upload destination.

- Mode: Select network server type (FTP \ SFTP \ Kaltura \ Panopto \ Opencast HTTP \ Opencast HTTPS).
- IP address, port, or User ID: Configure these fields according to the upload destination.
- Folder: Enter the folder name of the upload destination.
- Authentication: Configure this section according to the upload destination authentication method.

Connection test- Click the Connection test button to validate upload settings.

Click Apply after setup is completed. New setting is effective from next recording being created.

The upload status/result of the corresponding recordings is denoted in the Video Manager web pages.

Note : If the web server is Opencast, the video title and the creator description are automatically filled with the title and presenter of the video content settings.

C - Ladmin	- 🔊 OPENC	AST	Content	Bookmark
			Title : Tears of Steel(NO.1)	×
			Organization :	
			Department :	
© () () () (0:12:14			Europhie Bate -	
୍	100% - 0 100% - 0	×	Audience :	
Tears of Steel (No. 1) Blender Foundation, October 19 2017, 8:05:00 am			Room :	
Title Recording date Tears of Steel (No. 1) October 19 2017, 1	3:05:00 am		Category :	
Creator			Blender Foundation	×

#### 1.5 Conference

The conference service can set SG-1T as a video conferencing device which allows you to see and communicate with your client. With SG-1T, you can create a 2-party distance learning from different countries or locations. The conference service has two mode Internal and external.

**	Media I/O >	Conferen	nference							
	Video >									
	Storage	Confer	ence settings							
<u>+</u> 1	Upload	Confere	nce service :							
	Conference	Internal								
*	System >	Port :								
•	Account	5070								
		Ap	ply							
		Contact list								
		Clea	Clar al							
			Device description	MAC	Conference version	Firmware				
			SG-1_AREC#804	BC:BAE1:02:0E:98	1100.2	v7.2.3.11				
		Encode	r settings							
		Video co	impression :			Con Revolution :	nference Full HD			
		Confere	nce Full HD			Average bitrate :	1.5 Mbps			
						FPS :	30			
						H264 profile :	high profile			
						Audio bitrate :	256 Kbps			
						Audio sample rate :	44.1 KHz			

Select to internal : Set the SG-1T as conference server and port.

Contact list : List other SG-1Ts connected to this SG-1T. Click "Clear All" to disconnect all SG-1Ts in the list.

nference			
Conference settings			
Conference service :			
Internal	$\sim$		
Port :			
5070			
Apply			
Contact list			
Clear all			
Device description	MAC	Conference version	Firmware
SG-1_AREC#804	BC:BA:E1:02:0E:98	1.100.2	v72.3.11
16 11			

Select to external : Set the SG-1T as conference client, enter the conference server IP address and the port number. If the conference server is another SG-1T, the port number is 5070.

Con	Conference								
	Conference settings								
	Conference service :								
	External								
	IP address :								
	support_arec.com								
	Port:								
	5070								
	and the second se								

Service information : Display a description of the local device and the version of the Conference.

Service information	
Device description :	
SG-1_020406_London	
Conference version :	
1001	

Encoder settings

• Video compression : There are 7 preset recording video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option.

Profile name	Video Resolution/ Bitrate	Application description	
Internet Full HD	1080p/ 3Mbps	Dynamic scene and large local hard disk recording.	
Conference Full HD	1080p/ 1.5Mbps	General scene and medium local hard disk recording.	
Internet HD	720p/ 1.5Mbps	Static scene and small local hard disk recording.	
Conference HD	720p/ 1.2Mbps	Live broadcasting through the Internet.	
SD	480p/ 800kbps	Static scene for live broadcasting through the Internet.	
Mobile SD	480p/ 500kbps	Live broadcasting for portable mobile devices watching.	
User defined	Click button to open custom the option changed. User defined Resolution : 1920/080 Average bitrate : 15 Maps FPS : 30 GOP : 90 H264 profile : high profile Audio bitrate : 256 Kaps Audio sample rate : 441 KH2	ization window as shown below, and click Save button to make	

#### 1.6 System

The pages within System include the following:

🗶 System 🛛 🔻	System settings	Contains device identification, date and time configuration, and booting settings	
System settings	octango	and booting bettings.	
o jotani o otanigo	N		
Mabuark	Network	The device IP assignment in the networking.	
Network			
Firmware	Firmware	Displays the current firmware version, and provides web- based user a way to update firmware for the device.	
Configuration	Configuration	Export / Import the configuration.	

#### 1.6.1 System settings

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

k	Media I/O	> System settings	
	Video	>	
I.	Storage	Device identification	
	+ Upload	Hostname :	Hostname follows RFC-852 internet host table specification.
	Conference	99-1	
	6 00000000	Device description :	
٩	A system	30-1_ARECARD4	
	System setti ngs	Brand :	
		Spacostate	
		Madel	
	Account	56-1	
		Serial number :	
		TERFORCEDA	
		MACI	
		80841020698	
		Apply	
		Date and time	
		Device current date and time :	
		2019 02:22 18:14:19	
		Time zone :	
		Asia/Teipei	
		Tablind mode .	
		Million and an and a second se	
		NTP server unt :	
		poolrtp.org	
		Apply	
		Boot image	
		Restored and the second s	Elle france
			Pile format : PNG
		Spacesucie	Resolution(Max.): 1880x4060
		(7)	
		and the second se	
1			
1			
		Power	
		Drugg mode :	
		Booton with mean botton	
1		Total Annu Bank Factor	
1		Apply .	

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 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.

#### 1.6.2 Network

By default SG-1T uses DHCP to obtain an IP Address via a router or any DHCP server. To use a static IP address for your device, configure the network settings in this webpage.

🦡 Media I/O	/ledia I/O > Network				
🗰 Video	> Network settings				
<ul> <li>▲ Upload</li> <li>▲ Conference</li> </ul>	The system will reboot after changing the network settings. Please re-login.				
X System	DHCP     V				
System settings Network	IP address : 10.2.50.146				
Firmware Configuration	Subnet mask : 2552552550				
👤 Account	Default gateway :				
	Primary DNS Server :				
	10.00.0.1 Secondary DNS Server :				
	Apply				

IP assignment – Select DHCP to have IP address be allocated by a router or any DHCP server being connected; or Select Static IP and enter the required network settings including IP address / subnet mask / default gateway/ DNS server.

Click Apply at lower right corner, click Confirm in popup dialog box.

Note: The system will automatically reboot to complete the network settings. Login the updated IP address after the system restarts.

#### 1.6.3 Firmware

This page displays the device firmware version. To update the firmware, click "Update" and a dialog box opens asking you to select the file. Select the desired file and click "Open", the dialog box closes and the file name appears underneath. Click "Apply" to start firmware update. Click "Cancel" if the uploaded file is no longer wanted.

Note: System will reboot automatically when the firmware update is completed. It might takes a few minutes. Do not shutdown/ power off the system during firmware updating.

**	Media I/O	Firmware			
	Video				
	Storage	Firmware			
<u>+</u>	Upload	MCU version :			
٩.	Conference	v6.7			
×	System	Firmware :			
	System settings	v7.2.3.11			
	Network				
	Firmware	Update.			
	Configuration				
	Account	Service data			
		Export the log file to your computer			
		Description : 📎			
		Export			
		Reset			
		Reset to factory default			
		Except the network settings			
		Rest			

Service data : Export the log file to your computer. Input the file name, and then click"Export".

Note : The length of the string is 0~16 characters, allowing letters, numbers, symbols 11(~!@\$%^&\*-+\_). Reset : Reset to factory default. Check if you want to keep your network settings, and click "Reset". The dialog pop out and ask you "System will reboot after updating, continue? " Click "Confirm" to start reset.

#### 1.6.4 Configuration

You can export or import the configuration in this page:

🖘 Media I/O	>	Configuration
🔛 Video	>	
🚐 Storage		Export
🛨 Upload		All configuration
📞 Conference		Audio and Display
🔀 System	~	Recording, Streaming, Content, Storage, and Upload
System settings		Layout
Network		
Firmware		Export
Configuration		
Account		Import
		Load a configuration.
		Import

**Export :** Select the configuration to export and click "Export". **Import :** Click "Import" to load a configuration.

#### 1.7 Account

Users can set the system account password etc.

••	Media I/O	Ac	ccount management	
	Video 2	>	Administrator 🔖	
1 1	Storage Upload		Username :	
~	Conference		admin	
×	System 2	>	New password :	
*	Account		Confirm password :	
			Apply	
			Video Manager 📎	
			Username :	
			video	
			New password :	
			Confirm password :	
			Apply	
		_		

Changing username and password with Administration / Video Manager :

(1) Username: Enter a user login name that you want.

(2) New Password: Enter the user login password that you want.

(3) Confirm Password: Requires you to enter your password again for confirmation.

(4) Click Apply.

### **Chapter 2 Intuitive Graphical User Interface**

In this chapter, we will introduce how the SG-1T operates on the screen after the USB port is connected to the mouse or projector.

#### 2.1 Preview

This section briefly introduces the names of the various function buttons, and the functions will be introduced in the next section.



<b>4</b>	Group Change	PPT	Next Page		Settings
	Minimum		Video Switch	°O ■◀	Status
	Maximum	۲ŧ	Conference	(00:00:00)	Time Bar
	Pen On	۲×	Hang Up		
$\Diamond$	Eraser	R	Collaboration		
C	Undo	$\bigcirc$	Record		
面	Clear		Pause		
Ű	Pen Settings		Stop		
	Snapshot		Playback		
PPT	Previous Page		Playback Snapshot		
	Previous Page	9	Playback Shapshot		

#### 2.2 Toolbar

Here will introduce the function of all buttons. We divide the function into many small parts to introduce it for easy reading.

#### 2.2.1 Group Change and Annotation

This section contains Group Change and Annotation.

Name	Function	Description	
Group Change	Change order of function button	Order see 2.1 Preview	
- Minimum	Minimize	-	
Maximum	Maximize toolbar		
Pen On	Annotation on	show all existing annotations	
Eraser	Erase the part where Eraser move over	-	
Ondo Undo	Restore cleared annotations	-	
Clear all	Clear annotation on display	-	
Pen Settings	Change color of Pen and change size of Pen & Eraser	(The dialog will be introduced below.)	

#### Pen Settings



- a. Preview the color and width of the pen.
- b. Change the color of the pen.
- c. Change the width of the pen(eraser).

#### 2.2.2 Video Switch and Conference

This section contains Video Switch and Conference.

Name	Function	Description
Video Switch	Switch the SG-1T display sources	(The dialog will be introduced below.)
Conference	Connect to other device	(The dialog will be introduced below.)
K Hang Up	Disconnect the conferencing	(The dialog will be introduced below.)
Collaboration	Collaboration enable/disable	While Collaboration is enable, the icon become yellow.

#### 2.2.2.1 Video switch

Switch the SG-1T display sources.



Item	Name	Function	Description
а	Content	Select one of the assigned local content sources on display	Select assigned input (HDMI 1 , VGA1,HDMI 2 , VGA2)
b	Conference	Select one layout of the remote sources on display	<ul> <li>Totally 4 layouts for selection</li> <li>Full screen: Remote Content/Remote Camera</li> <li>Picture-in-picture:Remote Content big + Remote Camera small</li> <li>Side-by-side: Local Camera + Remote Camera</li> </ul>
С	Whiteboard	Select whiteboard type on display	Six types and six colors

#### 2.2.2.2 Conference

#### Conference contact list

	SG-1_020406_London a	×
•	SG-1_020E98_Taipei	<b>N</b>
•	SG-1_R301	<b>%</b>
	SG-1_021054	d
0	SG-1_demo	
0	SG-1_0217E2_FNTSi2	
$\sim$	CC 4 FNTC:	$\sim$
b		

- Show Contact list:
- a. Show local device description.
- b. Green: ready for call Black: device not available
  - Red: Busy
  - Yellow : calling out & waiting for acceptance
- c. Show each contact device description, click here to call.
- d. The device can be connected.
- Call out:Stop button(red) in call out dialog.
- Call in:Accept(green) or Refuse(red) buttons in call in dialog.



### SG-1\_021054\_Tokyo



When the connection is successful, the above picture will appear at the top of the screen. This picture contains the description of the connection device and the hang out button.

The button will appear when switch to local content, and when the button is clicked, the remote camera appears in the upper right corner of the screen.



#### 2.2.3 Playback and Record and Setting

This section contains Playback and Record and Setting.

Name	Function	Description
Record	Record video	Click to start recording
Pause	Video pause	Click to keep recording
Stop	Stop recording	-
Playback	Play video	(The dialog will be introduced below.)
Playback Snapshot	Playback snapshot	(The dialog will be introduced below.)
Settings	Device Information/Camera/Layout	(The dialog will be introduced below.)
Status	Representing the current state	Status change to red while recording
00:00:00 Time bar	Show current recording time	Time bar change to red while recording

#### 2.2.3.1 Playback Video

Video list Dialog



Show all videos saved in hard drive, three videos in one page.

- a.Date of video
- b.Start-End time of video
- c.Total time of video
- d.File list page up
- e.File list page down
- f.Video list pages, click to jump to different video list page.

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#### Playback mode functions

🛓 🕅 🗘 🛅 🖉 🎍	E ◎   ►	00:00:00 00:00:02
Name	Function	Description
Group Change	Change order of function button	-
Minimum	Minimize	-
Maximum	Maximize toolbar	-
Pen On	Annotation on	show all existing annotations
Eraser	Erase the part where Eraser move over	-
O Undo	Restore cleared annotations	-
Clear all	Clear all the annotation on playback mode	-
Pen Settings	Pen color/width	Refer to Pen settings of 2.2.1
Exit	Exit the playback mode	•
Bookmark	Bookmark of video	(The dialog will be introduced below.)
Play/Pause	Play/Pause video	Playback video While the video is playing, click to pause • and click again to resume •
Time bar	Show playback progress in bar	Click any point on the bar will jump to correspondent time
00:00:00 Time 00:00:02 Information	Total recording time & current playback time	-
Audio On/Off	Mute or resume playback audio	-
Volume bar	Show playback volume level	Click any point on the bar will adjust to correspondent volume level

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#### Bookmark



Show all Bookmark list attached with this playback video, three Bookmark item in one page.

- a. Bookmark Title
- b. Time Point
- c. Bookmark list page up
- d. Bookmark list page down
- e. Bookmark list pages,click to jump to different video list page.

#### 2.2.3.2 Playback Snapshot

Snapshot list Dialog



C.

Show all snapshots saved in hard drive, three folder in one page.

- a. Date of snapshots
- b. snapshot quantity
- c. Page up
- d. Page down
- e. Page number, click to jump to different page.

Playback mode functions

	<u>2019_02_19</u> Z 1/2	
Name	Function	Description
Group Change	Change order of function button	-
Minimum	Minimize	-
Maximum	Maximize toolbar	-
Pen On	Annotation on	show all existing annotations
Eraser	Erase the part where Eraser move over	-
O Undo	Restore cleared annotations	-
Clear all	Clear all the annotation on playback mode	-

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Pen Settings	Pen color/width	Refer to Pen settings of 2.2.1
Date	Snapshot list dialog	-
First	First snapshot	-
Previous	Previous snapshot	-
Next	Next snapshot	-
Last	Last snapshot	-
Exit	Exit the playback mode	-

#### 2.2.3.3 Settings

- 1. Information
- a. Show device information:Hostname/ Device description/ IP address/ Model/ Version/ Brand
- b. If Projector calibration: Some of the iFPD need to be calibrated before use. Using mouse control to click icon to start calibration. First appears the Touch Module list, select one and the calibration page will show. Using pen or finger to click on the center of the dot one by one. Totally 5 dots and each dot remain 30 seconds for time out.



#### 2. Layout

Click to select recording layout, totally 4 types for selection.



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Туре	Source	Conference On	Conference Off
Single	Display*	Content/ Conference/ Whiteboard	Content/ Whiteboard
	Display*	Content/ Conference/ Whiteboard	Content/ Whiteboard
PBP 01 PIP	Camera	Local Camera	Local Camera
	Display*	Content/ Conference/ Whiteboard	Content/ Whiteboard
Triple	Camera	Local Camera	Local Camera
	Remote	Remote Camera	Remote Camera

\* Display Source : reference to 2.2.2.1 Video switch

#### 3. Camera



- Camera Control:
- a. Up/ Down/ Left/ Right
- b. Zoom In
- c. Zoom Out
- d. Home
- e. Preset : P0~P7

4. Audio In / Out



- Audio Input Volume Control
- a. Line/ HDMI 1/ Line + HDMI 1 : Mute/ Down/ Up
- b. Mic/ HDMI 2/ Mic + HDMI 2 : Mute/ Down/ Up
- c. Camera : Mute/ Down/ Up
- d. Default (Volume only)
- Audio Output Volume Control
- a. Line : Up/Down/Mute
- b. HDMI : Up/Down/Mute
- c. Audio output loop through : On/Off
- d. Conference ringtone : On/Off
- e. Default (Volume only)

#### 2.2.3.4 Record

#### Limitation

- 1. Video length(Max.) : 8hr
- 2. If Front USB is FAT32, USB record size only 4 GB space time.

#### Rule



#### 2.2.4 Others

Name	Function
Snapshot	Screen shot of the display. When not recording, the picture will be placed in the snapshot folder of the internal hard drive or front USB, and will appear in the Video Manger. When recording, the picture will be placed in the data set of the video(see 3.4 NO.6), and when the snapshot is taken, the bookmark will be automatically added.
PPT PPt page up	Control PPT slide page up. Snapshot clear annotation and insert bookmark.
PPT PPt page down	Control PPT slide page down. Snapshot clear annotation and insert bookmark.

(PPT Bookmark app connected, please reference 4.1 PPT Bookmark application)

#### 2.3 Mini Controller (mobile phone)

Mini Controller
Username
Password
Log in
<b>Spaces</b> Gate

Connect mobile device to SG-1T, user can make it easier to control the SG-1T with the mobile device. User can quickly record or switch screens by using the mobile device.

Login : First open the browser, and input IP address in the browser page, log in Mini Controller from the initial login page with default username admin and password admin.

#### 2.3.1 Page1

On the top ,show the page1, page2 and exit button. In page1, show the device description, storage space and recording button.

	Name	Function
	Page 1	Click to jump to page 1
SG-1_#804	2 Page 2	Click to jump to page 2
Ca Ca	Exit	Exit the Mini Controller
	Device description	Show the device description
🛍 01h 52m	🖳 Storage space	Show the storage space
00:00:38 @ LIVE	Loop recording	Loop recording on
	Front USB	Show the storage space
Title	<sup>00:00:00</sup> Record time	User can know from here how long they have been recording
	CC Streaming setting	When administrator srteaming setting : Together with recording
—	LIVE Live streaming	SG-1T live broadcast
	(Live) Streaming	Streaming on/off ( When administrator srteaming setting : Independent streaming control )
	• Record	Click to start recording( In Playback mode : can not record )
	(II) Pause	Click to pause recording
	Stop	Click to stop recording
	Title	Enter title of video
	🐼 Snapshot	Screenshot of the display
	- Minimum	Minimize toolbar

#### 2.3.2 Page2

Switch the SG-1T display sources.



Name	Function	Description
Content	Select one of the assigned local content sources on display	Select assigned input (HDMI 1 ,HDMI 2,VGA 1,VGA 2)
Conference	Select one layout of the remote sources on display	<ul> <li>Totally 4 layouts for selection</li> <li>Full screen: Remote Content/Remote Camera</li> <li>Picture-in-picture:Remote Content big + Remote Camera small</li> <li>Side-by-side: Local Camera + Remote Camera</li> </ul>
GFF Switch	Remote Cam ON/OFF	When video switch to local content, the button can on/off Remote Cam image.

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### **Chapter 3 Video Manager**

The SG-1T embedded Video Manager provides access to recordings produced by SG-1T itself and stored in the internal -storage drive. The video and Snapshot lists are in descending order by the time of occurrence.

Entering the Video Manager webpage via [Administrator] by clicking the **(D)** button and opening a new tab; or log in Video Manager from the initial login page with default username video and password video.



#### 3.1 Video Management

The Video Manager includes the following features:upload, download, delete, playback the recording and edit the recording information.



#### 3.1.1 Upload the recording

Select the desired recording and click **(**) to add it in the upload queue. The upload destination is pre-configured by system administrator. See Administrator\ Upload for more details. The SG-1T arranges the upload sequence automatically and indicates the upload status/result on the corresponding recordings. The following indicators are used:



lcon	Upload Status
	The recording package are uploaded successfully.
	The recording upload is failed.
	The recording is in the upload queue.
	The recording is uploading at this moment.

#### 3.1.2 Download the recording

Select the desired recording and click 🔽 . Select Save if offered the choice to Open or to Save the package. The recording packages are downloaded to your computer included mp4 file and dataset file. These are typically saved to the default download location used by your browser.

To separately download the files in the recording packages, click on the recording thumbnail and access those in the Content information page.

#### 3.1.3 Delete the recording

Recording packages can be deleted manually to make room for new recordings.

Select the recording and click in . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the recording packages. The list may not update immediately. Refresh the list by reloading this webpage.

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#### 3.1.4 Playback the recording

Click on the desired recording and you will be directed to the content information page. Use the player controls at the bottom of the window to watch the video.

The title used for Mixed video is "Movie". To download MP4 Mixed video file. select the desired file and click Download. The file size being download is shown within the button.



- 1. Title of the video file being played
- 5. Plavback controls
- 2. Recording date and time
- 3 Edit the content fields
- 4. Playback window

- 6. Video file and data set (files containing metadata, thumbnail images, and bookmarks.)
- 7. Download button

#### 3.1.5 Edit the recording information

If you require to edit the information of a recording, click on the desired recording and you will be directed to the content information page. Replace the existing text or enter new information in the content fields. Click APPLY to save the changes.

#### 3.1.6 Edit the bookmark information

If you require to edit the bookmark of a recording, click on the desired recording and you will be directed to the Bookmark page.

	1. Edit the bookmark title.
Content Bookmark	Edit bookmark X
Slide 1 00:00:43	Time : 00:00:43
Embedded Direct Recording System Features 00.00.48	Title : Sildo1 x Cancel Apply
Wireless, portable multi- source broadcast video equipment 00:00:53	2. Delete the bookmark
	3. Add new bookmark with title.
KL-3W suitcase kit 00:00:58	Add bookmark X
Ť,	
+ Add bookmark	Time : 00:01:39
	Title :
	Cancal Apply

#### 3.2 Snapshot Management

The Snapshot Manager includes the following features:upload, download, delete, preview.



#### 3.2.1 Upload the photo

Select the desired photo folder and click to add it in the upload queue. The upload destination is pre-configured by system administrator. See Administrator\ Upload for more details. The SG-1T arranges the upload sequence automatically and indicates the upload status/result on the corresponding folders. The following indicators are used:



lcon	Upload Status
	The file package are uploaded successfully.
	The file upload is failed.
	The file is in the upload queue.
	The file is uploading at this moment.

#### 3.2.2 Download the photo

Select the desired photo folder and click 👱 . Select Save if offered the choice to Open or to Save the package. The photo packages are downloaded to your computer. These are typically saved to the default download location used by your browser.

To separately download the photo in the folder, click on the folder thumbnail.

#### 3.2.3 Delete the photo

Photo packages can be deleted manually to make room for new photos.

Select the folder and click 🔽 . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the photo packages. The list may not update immediately. Refresh the list by reloading this webpage.

#### 3.2.4 Preview the photo

Click on the desired photo folder and you will be directed to the photo list page.



Click on the desired photo to preview the photo.



### **Chapter 4 Applications**

This chapter is mainly about introducing some additional applications.

#### 4.1 PPT Bookmark application

This section will explain how to use PPT Bookmark application, when the program is connected to SG-1T, the PPt page up button  $\begin{bmatrix} m_{1}^{2} \\ m_{2}^{2} \end{bmatrix}$  and PPt page down button  $\begin{bmatrix} m_{1}^{2} \\ m_{2}^{2} \end{bmatrix}$  of SG-1T can be used.

E PPT Bookmark

PPT Bookmarking software Installation and use at the PC end: Installation steps:

- 1. Click the execution file "PPT\_Bookmarker\_Setup.exe"
- 2. Select installation language.

After the installation is complete, user can see the following main buttons.

- 🔅 : Click Green button 🔅 to setup.
- 🕑 : Click Red button 🕑 to exit the software.
- Click blue button D to use the software.

Execution steps:

- 1. Click PPT Bookmark, Click Search button in blue.
- 2. Click Cancel in Searching... dialog box to abort installation.



 Click on the device to be connected Note: Keep your PC and the SG-1T in the same domain.

Media Static	on 🔎 🕸 😃	
Device Description	IP Address	^
SG-1_demo room	10.2.0.122	
LS-300	10.2.0.115	
SG-1_02054C_Podium	10.2.0.147	
SG-1_R301_EPSON	10.2.0.167	
KS-506_ED136A	10.2.50.111	

Х

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4. Open the PPT file to be presented,	, name of it o	displays in PP	Т
status page of your software.			
Note: This software supports	Microsoft	PowerPoint	2007,

2010,2013, and 2016.

퉲 PPT Bookmark		-		$\times$
/ice Description: SG-1_020406_London				
IP Address: 10.2.50.140				
PPT Status: a.pptx				
Warning:				
St	top			

Setting	
English •	v 2.2.0.7
The interval to add a	Bookmark after ppt slide changed 3 - Sec
The interval to add a	Bookmark after ppt slide changed 3 • Sec

Setup page:

- 1. Language: You may select language
- 2. Page change interval time, dropdown list: 1/2/3/4/5 seconds for selection.
- 3. Auto Connection:Click Auto Connection and the next time press the search button when you open it, it will connect directly to the device.
- 4. Default:Restore to initial settings.
- 5. OK:Click OK to change the settings and close the dialog directly.
- 6. Apply: Click Apply to change the settings
- 7. Cancel: Click Cancel to cancel the settings and close the dialog directly.

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### **Table of On Screen Display Icons**

The SG-1T provides a 10.1" LCD Display output. On screen display there are event icons and sometimes the error operation warnings.



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Updating.Please wait. System will reboot after setting updating.	Shutdown? <b>U</b> Yes: Press () again No: Press any other buttons
Firmware updating	Shutdown confirmation
Update failed!	Fan error
Press any button to resume the preview. 12 seconds	System will shut down in 60 seconds Please press 🕐 to shut down immediately
Firmware update failure	Fan failure



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