RC-SDA5+ Configuration File Formatting Guide

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This document describes the formatting requirements for the RC-SDA5+ configuration file. The configuration file defines settings of the RC-SDA5+.

File naming: Configuration files are simple text files that must start with CONFIG_SCT and have a standard ".txt" extension. The characters following CONFIG_SCT are not relevant to functionality but help identify files as defined by the installer. Example configuration file: CONFIG_SCT_default.txt

The files must be located in the root folder of a microSD card formatted as a FAT, FAT32, or exFAT.

File Contents: The text file contains three main sections identified as the "setting" section, "camera" section and the message "msg" section. The end of this document includes a complete example file. Comments may be added as long as they are placed between /* and */. Anything between /* and */ will be ignored by the RC-SDA5+. The file contents are not case sensitive.

(1) Setting: The "setting" section will configure communication settings of the RC-SDA5+.

a. CEC Path

Example: {"cecpath":[1,2]}

Command	<Param>	Function
"cecpath":[<Param>]	0	Disables CEC path between HDMI input and both outputs.
	1	Enables CEC path between HDMI input and Output 1.
	2	Enables CEC path between HDMI input and Output 2.
	1,2	Enables CEC path between HDMI input and Output 1 and 2.

b. DHCP/Static IP (of RC-SDA5+)

Example: {"dhcp":"disable","ip":"192.168.20.45","mask":"255.255.255.0","gateway":"192.168.20.1"}

Command	<Param>	Function
"dhcp":"<Param>"	enable	Enable DHCP
	disable	Disable DHCP
"ip":"<Param>"	xxx.xxx.xxx.xxx	Defines IP address of RC-SDA5+ (only valid if DHCP is disabled)
"mask":"<Param>"	xxx.xxx.xxx.xxx	Defines subnet mask (only valid if DHCP is disabled)
"gateway":"<Param>"	xxx.xxx.xxx.xxx	Defines gateway (only valid if DHCP is disabled)

(2) Camera: The "camera" section defines the settings of the camera or codec system attached to the RC-SDA5+.

a. Device make

Example: {"vendor":"Sony"}

Command	<Param>	Function
"vendor":"<Param>"	Sony	Sets the camera make to Sony
	Panasonic	Sets the camera make to Panasonic
	AVer	Sets the camera make to AVer
	Cisco	Sets control mode to Cisco Codec

b. Device model

Example: {"model":"SRG_120DH"}

Command	<Param>	Valid for Device Make
"model":"<Param>"	SRG_120DH, SRG_300H, BRC_X400, BRC_X401, SRG_X400, SRG_201M2, SRG_X120, SRG_HD1M2	Sony
	AW_HE40HWP, AW_UE150	Panasonic
	PTC310UV2, PTC310HWV2, PTC320UNV2, PTC330UV2, TR333V2, TR323NV2, TR313V2, TR323V2, PTC310, PTC310H, PTC310N, PTC310U, PTC330U, PTZ310, PTZ330, PTZ310N, PTZ330N, TR310, TR311HN, TR311, TR313, TR333, TR331	AVer
	Codec	Cisco

c. Device protocol

Example: {"protocol":"VISCA"}

Command	<Param>	Function
"protocol":"<Param>"	VISCA	Sets the camera protocol to Sony or AVer
	Panasonic	Sets the camera protocol to Panasonic
	Cisco	Sets the codec protocol to Cisco

d. Target network settings

Example: {"ip":"192.168.10.100","remote_port":"52381","local_port":"52381"}

Command	<Param>	Notes
"ip":"<Param>"	xxx.xxx.xxx.xxx	Set to 169.254.1.1 for Cisco codec
"remote_port":"<Param>"	0 - 65535	Set to 80 for Panasonic camera and Cisco codec Set to 52381 for Sony and AVer cameras
"local_port":"<param>"	0 - 65535	Set to 52381 for Sony and AVer cameras

e. Target credentials

This section is required for Cisco codec mode. This section will be ignored for other modes.

An account must be created in the Cisco Web interface that includes roles of "User" and "Integrator" and HTTP mode set to "HTTPS + HTTP".

Example: {"username":"SCT"}, {"passphrase":"password"}

Command	<Param>	Notes
"username":"<Param>"	<open field>	16 characters maximum
"passphrase":"<Param>"	<open field>	16 characters maximum

f. Target video port

This section is required for Cisco codec mode. This section will be ignored for other modes.

Example: {"video_input":"1"}

Command	<Param>	Notes
"video_input":"<Param>"	1,2,3,4,5,6,7	The Cisco codec HDMI video port number that the RC-SDA5+ output is connected to

g. USB Descriptors (Requires Firmware v2.0 or higher)

Example: {"port":"unified_video","prod_str":"Custom USB Video Descriptor"}

Command	<Param>	Function
"port":"<Param>","prod_str"::<Custom_String>")	unified_video	Sets the USB descriptor of the USB Unified Video port (string length from 2 to 31 characters)
	unified_audio	Sets the USB descriptor of the USB Unified Audio port (string length from 2 to 31 characters)
	usb20_audio	Sets the USB descriptor of the USB2.0 Audio port (string length from 2 to 31 characters)

(3) MSG: The "msg" section will is used to configure messages from the 3-pin Terminal Block (TB) RS232 port.

a. 3-Pin RS232 Terminal Block Unsolicited Messaging Mode

Example: {"mic_mute_msg":"enable"}

Command	<Param>	Function
"mic_mute_msg":"<Param>"	enable	Enables unsolicited USB mic mute/unmute messages to 3-pin Terminal Block RS232 port
	disable	Disables unsolicited USB mic mute/unmute messages to 3-pin Terminal Block RS232 port

Sample Config File on following page

```
/* RC-SDA5+ Configuration file */

{
"setting":[
{"cecpath":[1,2]}, /* Selects CEC path between HDMI CEC input and HDMI output 0:disable, 1:HDMI1, 2:HDMI2 (0/1/2)*/
/* The following sets the IP parameters of the RC-SDA5+. Change as appropriate for your network. IP, Mask, and */
/* Gateway are not required for DHCP "enable" mode */
{"dhcp":"disable","ip":"192.168.10.123","mask":"255.255.255.0","gateway":"192.168.10.1"}],

/* Defines the settings of the camera or codec system */
"camera":[
/* Camera vendor name*/
/* SONY/PANASONIC/AVER/CISCO */
{"vendor":"SONY"},
/* Camera model name */
/* SRG_120DH/SRG_300H/BRC_X400/BRC_X401/SRG_X400/SRG_201M2/SRG_X120/SRG_HD1M2 */
/* AW_HE40HWP/AW_UE150 */
/*
PTC310UV2/PTC310HWV2/PTC320UNV2/PTC330UV2/TR333V2/TR323NV2/TR313V2/TR323V2/PTC310/PTC310H/PTC310N/PTC310U/PTC3
30U/PTZ310/PTZ330/PTZ310N/PTZ330N/TR310/TR311HN/TR311/TR313/TR333/TR331 */
/* CODEC */
{"model":"SRG_120DH"},
/* Camera protocol */
/* VISCA/PANASONIC/CISCO */
{"protocol":"VISCA"},

/* For Sony and Aver use remote port:52381, local port:52381 */
/* For Panasonic use remote port:80 */
/* Cisco codec IP is always 169.254.1.1, and remote port:80 */
{"ip":"192.168.10.100","remote_port":"52381","local_port":"52381"},

/* Login credentials and video input are required for Cisco codec mode. This section will be ignored for other modes. */
/* Enter the same login and passphrase used in the codec web interface. */
/* Maximum length of username and passphrase is 16 */
{"username":"SCT"},
{"passphrase":"password"},
/* Enter the codec HDMI video port number the RC-SDA5+ output is connected to */
{"video_input":"1"}], /* 1,2,3,4,5,6,7 */

/*Defines the USB descriptors*/
/*The product string length must be from 2 to 31 */
"usb":[
{"port":"unified_video","prod_str":"SCT USB Unified Video"}, /*Sets the product string of the USB Unified Video port */
{"port":"unified_audio","prod_str":"SCT USB Unified Audio"}, /*Sets the product string of USB Unified Audio port */
{"port":"usb20_audio","prod_str":"SCT USB2.0 Audio"}], /*Sets the product string of USB2.0 Audio port */

"msg":[
{"mic_mute_msg":"enable"}] /* Enables/disables unsolicited USB mic mute/unmute messages to 3-pin Terminal Block RS232 port
(enable/disable) */
}
```