RC-SDA4+ Configuration File Formatting Guide

11/19/2025

This document describes the formatting requirements for the RC-SDA4+ configuration file. The configuration file defines advanced settings of the RC-SDA4+. DIP switch 8 must be ON (UP) to use the parameters in the configuration file. Note that DIP switches 1-7 are ignored in this mode.

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-SDA4+. The file contents are not case sensitive.

(1) Setting: The "setting" section will configure communication settings of the RC-SDA4+.

a. 3-Pin RS232 Terminal Block Listen Mode

Example: {"listen":"enable"}

Command	<Param>	Function
"listen":"<Param>"	enable	Enables 3-pin Terminal Block (TB) RS232 port responses from the connected RC4-CE RS232 port
	disable	Disables 3-pin Terminal Block (TB) RS232 port responses from the connected RC4-CE RS232 port

b. D2 Mode

Example: {"D2":"disable"}

Command	<Param>	Function
"D2":"<Param>"	enable	Enables D2 mode to keep Poly EagleEye Director 2 awake
	disable	Disables D2 mode

c. Audio Output

Example: {"audio":"output","port":"unified"}

Command	<Param>	Function
{"audio":"output","port":"<Param>"	unified	Audio out is routed to the Unified USB port
	audio	Audio out is routed to the Audio USB port

d. DB9 RS232 Mode

Example: {"rs232":"DB9","mode":"POLY"}

Command	<Param>	Function
"rs232":"DB9","mode":"<Param>"	POLY	Sets the DB9 RS232 mode to Poly
	VISCA	Sets the DB9 RS232 mode to VISCA

e. SCTLink RS232 Mode

Example: {"rs232":"SCTLink","mode":"POLY"}

Command	<Param>	Function
"rs232":"SCTLink","mode":"<Param>"	POLY	Sets the connected RC4-CE RS232 mode to Poly
	VISCA	Sets the connected RC4-CE RS232 mode to VISCA

f. 3-Pin Terminal Block RS232 Mode

Example: {"rs232":"RS232TB","mode":"POLY"}

Command	<Param>	Function
"rs232":"RS232TB","mode":"<Param>"	POLY	Sets the 3-pin 3rd Party Terminal Block RS232 mode to Poly
	VISCA	Sets the 3-pin 3rd Party Terminal Block RS232 mode to VISCA

g. Camera Sleep Mode

Example: {"sleep":"mute"}

Command	<Param>	Function
"sleep":"<Param>"	mute	Sets the camera sleep mode to mute the USB video only
	park	Sets the camera sleep mode to park the camera head

h. Tracking Mode

Example: {"tracking":"enable"}

Command	<Param>	Function
"tracking":"<Param>"	enable	Enables auto tracking mode on bootup if D2 mode is also enabled
	disable	Disables auto tracking mode on bootup if D2 mode is also enabled

i. 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.

j. Auto Tracking Support

Example: {"atsupport":"enable"}

Command	<Param>	Function
"atsupport":"<Param>"	enable	Enables auto tracking button when using Poly codecs. Set to Enable if camera supports auto tracking
	disable	Disables auto tracking button when using Poly codecs. Set to Disable if camera does not support auto tracking

(2) Camera: The “camera” section will set the RC-SDA4+ to control proper PTZ range values of various VISCA cameras. Note: Poly cameras are not affected by this section.

a. VISCA camera make

Example: {"vendor":"Sony"}

Command	<Param>	Function
"vendor":"<Param>"	Sony	Sets the VISCA camera make to Sony
	AVer	Sets the VISCA camera make to AVer
	Lumens	Sets the VISCA camera make to Lumens
	VDO360	Sets the VISCA camera make to VDO360

b. VISCA camera model

Example: {"model":"BRC_X400"}

Command	<Param>	Valid for Camera Make
"model":"<Param>"	EVI_D100, EVI_D100P, EVI_D30, EVI_D31, EVI_HD7V, EVI_HD3V, SRG_300H, BRC_X400, BRC_X401, SRG_X400, SRG_201M2, SRG_X120, SRG_HD1M2, SRG_120DH	Sony
	PTC310, PTC310UV2, PTC310HWV2, PTC310H, PTC310N, PTC310U, PTZ310, PTZ310N, TR310, TR311, TR311HN, TR313V2, PTC320UNV2, PTC330, PTC330UV2, PTZ330, PTZ330N, TR323NV2, TR323V2, TR331, TR333V2, TR333	AVer
	VC_A51P, VC_A51PN	Lumens
	CompassX	VDO360

c. 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-SDA4+ Configuration file */
/* With the exception of USB Descriptors, DIP Switch 8 must be ON for the settings below to be active. DIP switches 1-7 will be ignored in this mode. */

{
"setting":[
{"listen":"enable"}, /*Enables/disables 3-pin Terminal Block(TB) RS232 port responses from the SCTLink RS232 port (enable/disable)*/
{"D2":"disable"}, /*Enables/disables D2 mode to keep Poly EagleEye Director 2 awake (enable/disable)*/
{"audio":"output","port":"unified"}, /*Selects audio out between Unified USB port and Audio-only USB port (unified/audio)*/
{"rs232":"DB9","mode":"POLY"}, /*Sets the DB9 RS232 mode (POLY/VISCA)*/
{"rs232":"SCTLink","mode":"POLY"}, /*Sets the Set SCT-Link RS232 mode (POLY/VISCA)*/
{"rs232":"RS232TB","mode":"VISCA"}, /*Sets the 3-pin Terminal Block RS232 mode (POLY/VISCA)*/
{"sleep":"mute"}, /*Selects sleep mode between video mute and camera park (mute/park) (muted by default)*/
{"tracking":"enable"}, /*Enables/disables auto tracking mode on bootup if D2 mode is enabled (enable/disable) (enabled by default)*/
{"cecpath":[1,2]}, /*Selects CEC path between HDMI CEC input and HDMI output 0:disble, 1:HDMI1, 2:HDMI2 (0/1/2) ([1,2] by default)*/
{"atsupport":"enable"}], /*Camera Auto Tracking Support. Set to enable if camera is capable of auto-tracking (enable/disable)*/

"camera":[
/*VISCA Camera vendor name*/
/*SONY/AVER/LUMENS/VDO360*/
{"vendor":"SONY"},
/*VISCA Camera model name*/
/*EVI_D100/EVI_D100P/EVI_D30/EVI_D31/EVI_HD7V/EVI_HD3V/SRG_300H/BRC_X400/BRC_X401/SRG_X400/SRG_201M2/SRG_X120/SRG_HD1M2/SRG_120DH*/
/*PTC310/PTC310UV2/PTC310HWV2/PTC310H/PTC310N/PTC310U/PTZ310/PTZ310N/TR310/TR311/TR311HN/TR313V2/PTC320UNV2/PTC330/PTC330UV2/PTZ330/PTZ330N/TR323NV2/TR323V2/TR331/TR333V2/TR333*/
/*VC_A51P/VC_A51PN*/
/*CompassX*/
{"model":"BRC_X400"}],

/*Defines the USB descriptors*/
/*The product string length must be from 2 to 31 */
/*The product string information below will ALWAYS be used, regardless of DIP switch 8 setting*/
"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) (enabled by default)*/
}
```