

SCT Programming Guide

History

V1.0	Initial Release
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SCT RS232 Protocol

Supported SCT devices include an SCT RS232 protocol that is independent of VISCA/Poly commands. This section describes how to issue these commands, and the expected results.

RS232 3-Pin Terminal Block Pinout:

TX: Sends data out from SCT

RX: Receives data to SCT

GND: Ground



Parameters (DIP switch 2 selectable): 9600 baud, No parity, 8 data bits, 1 stop bit **or**
9600 baud, Even parity, 8 data bits, 1 stop bit

Every command must start with ASCII ## and must end with a carriage return and line feed (hex 0D 0A).

Basic Format

#	#	set <or> get	:	Command	Space	Parameter	Carriage Return	Line Feed
(23h)	(23h)	3 bytes	(3Ah)	Varies	(20h)	Optional	(0Dh)	(0Ah)
Start bytes			1 byte		1 byte		End bytes	

Minimum firmware versions required – For details on determining firmware version, refer to the Support -> Tech Tips section of www.soundcontrol.net and select your device.

RC-SDA (2021 or newer hardware)¹: v6.0

RC-SDA+: v3.0

SCT Command List:

Command	Parameter	Direction	Function	Supported Devices
mfc_pwr	on/off/reset	set	Off: Disables power to the 60-pin Multi-Function Connector (MFC) ² On: Enables power to the 60-pin MFC connector Reset: Disables power to the 60-pin MFC connector for 2 seconds, then re-enables power	RC-SDA+
mfc_pwr	n/a	get	Replies with current state	RC-SDA+
img_flip	on/off	set	Off: Video image will be in standard upright mode On: Video image will be inverted vertically, for ceiling mounting (upside-down)	RC-SDA (2021) RC-SDA+
img_flip	n/a	get	Replies with current state	RC-SDA (2021) RC-SDA+

All commands without return values will reply:

(Without quotes. ACK followed by a carriage return and line feed. Characters between quotes are ASCII):

- If command is recognized: "ACK" 0D 0A
- If command is not recognized: "NACK" 0D 0A

All commands with return values will return the following pattern:

(Without quotes. A space character, 20h, is between <value> and ACK. Characters between quotes are

ASCII. End of reply is a carriage return and line feed):

- If command is recognized: "<value> ACK" 0D 0A
- If command is not recognized: "NACK" 0D 0A

¹ See appendix 1 for identifying RC-SDA hardware versions.

² This will cut power only to a camera that is directly connected to the MFC connector, not through an extension kit.

VISCA to Poly Translation

Supported SCT devices have the ability to translate VISCA to Poly commands in real-time. This simplifies systems with Poly cameras that integrate VISCA joystick controllers or third-party control systems.

Supported SCT Devices – For details on determining firmware version, refer to the Support -> Tech Tips section of www.soundcontrol.net and select your device.

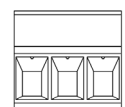
Device	Minimum Firmware Version
RC-SDA (2021 or newer hardware) ¹	v5.0
RC-SDA+	v1.0

RS232 3-Pin Terminal Block Pinout:

TX: Sends data out from SCT

RX: Receives data to SCT

GND: Ground



G RX TX

Parameters (DIP Switch 2 OFF): 9600 baud, No parity, 8 data bits, 1 stop bit

Refer to the Sony VISCA specification for details on the full command structure.

Download PDF: [Sony VISCA](#)

The following table identifies which commands are translated to Poly:

Command Set	Command	VISCA Packet	Notes
Pan/Tilt	Left	81 01 06 01 vv ww 01 03 FF	vv: Pan Speed 01 (Slow) to 18 (Fast) ww: Tilt Speed 01 (Slow) to 14 (Fast)
	Right	81 01 06 01 vv ww 02 03 FF	
	Up	81 01 06 01 vv ww 03 01 FF	
	Down	81 01 06 01 vv ww 03 02 FF	
	Stop	81 01 06 01 vv ww 03 03 FF	
Zoom	Tele	81 01 04 07 2p FF	p: Zoom Speed. 0=Low, 7=High
	Wide	81 01 04 07 3p FF	
	Stop	81 01 04 07 00 FF	

¹ See appendix 1 for identifying RC-SDA hardware versions.

Appendix 1 – Identifying RC-SDA Hardware Versions

The RC-SDA has had two major hardware versions since initially released in 2018. Version 2018-2020 is identified by a 4 position DIP switch and lack of microSD card slot. Version 2021-Present is identified by an 8 position DIP switch and includes a microSD card slot.



RC-SDA 2018-2020



RC-SDA 2021-Present