Sound Control Technologies

RCU3SL™ USB Camera Extension
Frequently Asked Questions
Tech Support: 203-854-5701

Q: What does the RCU3SL do?

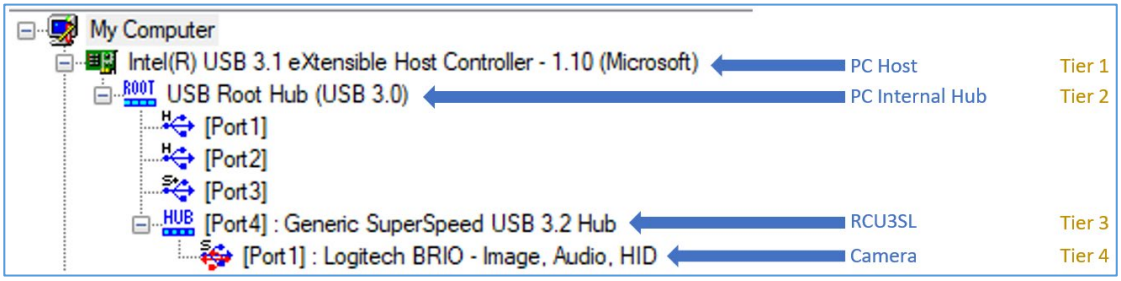
A: The **RCU3SL** powers and extends USB cameras up to 100m on a single category cable. USB-C ports support up to USB 3.2 speeds and the camera end module includes power delivery (PD) up to 36W. 5V and 12V DC are also available to discreetly power cameras up to 36W. UVC and VISCA RS232 control pass-through are also supported.

Q: How do I set baud rate, parity, and stop bits on the RS232 ports?

A: You don't! The Control and VISCA RS232 ports are truly transparent and agnostic to these settings. Whatever settings you use on your source device will be what is seen on the receiving device. This happens automatically and requires no DIP switch settings on the **RCU3SL**.

Q: How many USB tiers does the RCU3SL use?

A: A linked **RCU3SL** kit will use up one tier (hub) in the USB hierarchy. Be aware that many computers will use up two tiers internally, and the camera attached to the **RCU3SL-CE** will use another tier. Seven total tiers is the maximum allowed per the USB specification, so take care to design your systems appropriately. Software programs such as UsbTreeView (freeware by Uwe Sieber) can be a useful tool in verifying tier structure. Below is a typical example of a USB camera connected through the **RCU3SL** into a host PC:



Q: What do the DIP switches do?

A: The 4 position DIP switch is reserved for future use.

Q: Why is my Poly codec is not showing video from a Poly E70 camera?

A: When connecting to a Poly E70 camera, the USB-C connector may need to be rotated 180° (flipped upside down) *at the **camera** side* if no video is present. The RCU3SL-CE must be rebooted after reconnecting.

Q: What do the LEDs indicate?

A: The LEDs on both the **RCU3SL-HE** and **RCU3SL-CE** provide a good way to tell if the system is wired correctly and operating normally. Refer to the chart below for details.

Module	LED LABEL	LED STATUS	INDICATES
RCU3SL-HE	Power	Solid Green	Good Power
	Status	Blinking Green	Good Link Firmware
	FW	Blinking Green*	Good MCU Firmware
	Link	Solid Green	Linked to RCU3SL-CE
	USB3	Solid Green	USB 3.x Host Connected
		Flashing Green/Amber	USB 1.1/2.0 Connected
		Solid Amber	Host Connected, Device not Enumerated
		Off	No USB Host Present
	⟳	Solid Green	USB-C Cable Plugged in 0° Orientation
		Solid Amber	USB-C Cable Plugged in 180° Orientation
		Red	No USB Host Present
RCU3SL-CE	FW	Blinking Green*	Good MCU Firmware
	USB3	Solid Green	USB 3.x Connection
		Flashing Green/Amber	USB 1.1/2.0 Connection
		Solid Amber	Host Connected, Device not Enumerated
		Off	No USB Connection
	VBUS	Solid Green	USB VBUS Active
		Off	USB VBUS Inactive
	Left Control/IR LED	Slow Blinking Green	Good Link Firmware
	Right Control/LED	Solid Amber	Linked to RCU3SL-HE

*FW blink pattern changes when performing firmware update or writing the log file. Refer to the "RCU3SL Firmware/Log Guide" under the Support page at www.soundcontrol.net for details.

Q: What is the microSD slot for?

A: The microSD slot on the **RCU3SL-HE** allows for field upgradable firmware and diagnostics.

Q: I'm installing in a secure environment. Are there any options to be in compliance?

A: Some secure environments don't allow memory card slots on devices. In the Tech Support Downloads section of www.soundcontrol.net there is a special version of Secure firmware that will completely and **permanently** disable the microSD slot. Note: This is not reversible.