



The RemoteCam4™ includes an IR repeater feature that sends IR control signals from the RC4-CE™ (Camera End) to the RC4-HE™ (Head End) when using certain cameras. This feature only works if the camera has the ability to demodulate the signal and send it out its control port. Poly and Sony have both been tested to work successfully. For Sony, DIP Switch 4 on the bottom of the camera must be switched ON to enable this feature.

A 3.5mm plug IR emitter cable (not provided by SCT) is also needed; for example:

<https://www.newark.com/mcm-custom-audio/50-14870/3-5mm-plug-single-ir-emitter/dp/93T9091>

This feature is useful when other third-party devices are used near the RC4-HE™ that require IR control, especially if they are behind closed rack doors, or otherwise not in direct line of site of the user. Examples may include Blu-ray players, cable boxes, DTV receivers, or codecs that are different brands than the camera being used.

When configured correctly, the user can point another manufacturer's remote at the camera which is typically at the front of the room near the display. The signal will travel from the camera to the RC4-CE™, then to the RC4-HE™, and finally out the Modulated IR Output jack to the IR emitter.

The carrier frequency of the IR emitted signal can be changed by the DIP Switches on the front of the RC4-HE™ as defined below:

IR Carrier Frequency	SW1 (No Connect)	SW2	SW3	SW4
40 kHz	n/a	ON (Down)	ON (Down)	ON (Down)
38 kHz	n/a	ON (Down)	ON (Down)	OFF (Up)
36 kHz	n/a	OFF (Up)	ON (Down)	OFF (Up)
34 kHz	n/a	ON (Down)	OFF (Up)	OFF (Up)

The most commonly used protocol for devices is the NEC protocol, which specifies a carrier frequency of 38 kHz. The NEC protocol is used by the vast majority of Japanese-manufactured consumer electronics. The Philips RC-5 and RC-6 protocols are also widely used, which both specify a carrier frequency of 36 kHz.

If you have any questions, contact SCT Tech Support at support@soundcontrol.net or call us at 203-854-5701.