

Connecting the SVS-1 Camera Junction Box For The SmarTek Systems/Pelco Camera And Camera Zoom and Focus Adjustment

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SVS-1 Camera Junction Box Connection

The SVS-1 Camera Junction Box (SVS-JB) is organized with the surge (homerun) side on the left and the protected (camera) side on the right. Power supply and control conductors are connected via the blue terminal block connectors, while the video coax cable is connected via standard BNC connectors. The SVS-JB comes from the factory with the camera pigtail attached as shown. The home run cable may be standard coax (video) plus two (24 VAC power) or five (24 VAC, zoom and focus control) conductors. The home run cable must be inserted thru the SVS-JB strain relief (at the left/bottom) before installing a crimp/compression BNC connector. The SVS-JB includes both gas tube surge protection (top side) and solid state surge protection (bottom side) for maximum protection.



Zoom **Red** Conductor
Lens Common **Blue** Conductor
Focus **Green** Conductor

24 VAC **White** Conductor (Coax + 5 Cond Cable)
24 VAC **Black** Conductor (Coax + 5 Cond Cable)



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SmarTek Systems/Pelco Camera Lens Control Signals

During Camera install and setup, applying DC voltage to the control lines of the camera will adjust the zoom or focus according to the polarity of the DC voltage applied to the control lines. Since these adjustments are made only during install and setup, it is recommended that a 9 VDC battery be used to make the settings. After setting the zoom and focus use tape or a wire nut to insulate the cable conductors corresponding to Zoom (**Red**), Common (**Blue**), and Focus (**Green**). Note that home run cable conductor colors may be different.

Zoom – (Red)

Lens Common – (Blue)

-VDC

+VDC

+VDC

-VDC

Focus – (Green)

Lens Common – (Blue)

-VDC

+VDC

+VDC

-VDC

Note: The color codes shown is for the Camera (Protected) Side of the Junction Box Surge Protector Card.



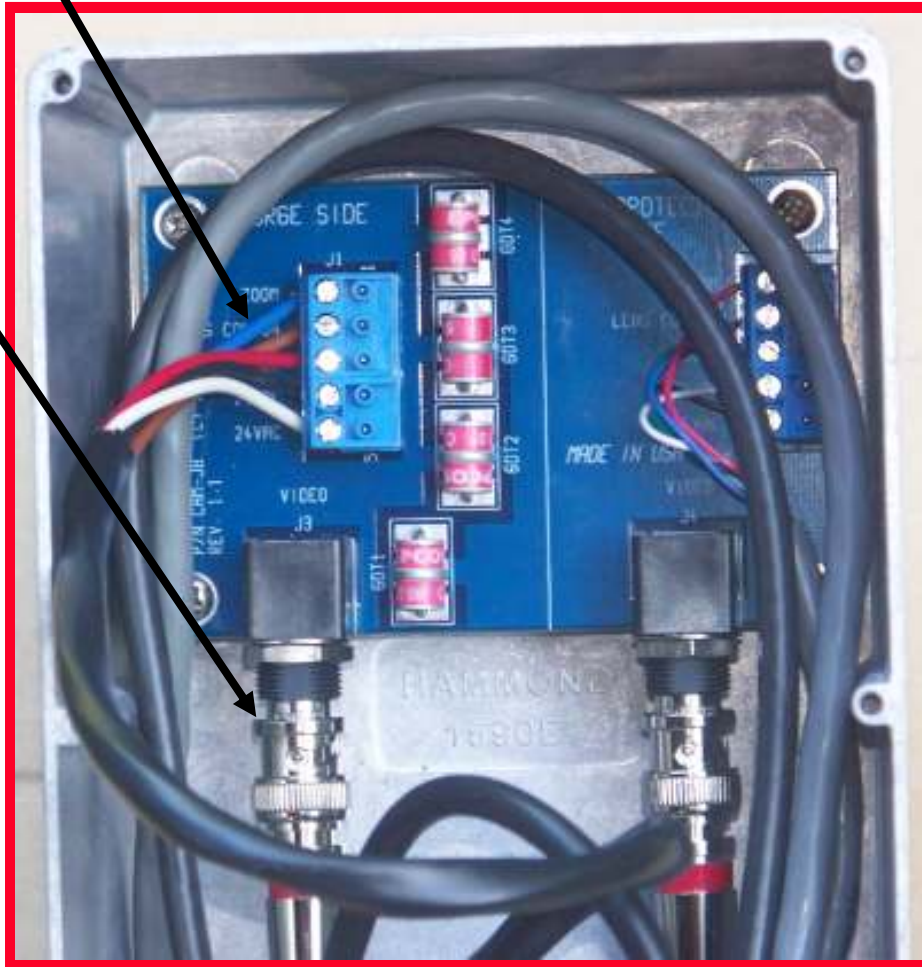
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Connecting a Five Conductor Home Run to the SVS Junction Box

Home Run
Power and Control

Home Run
Video BNC



Five Conductor Home Run

24 VAC (White)

24 VAC (Black)

Focus Control (**Red**)

Lens Common (**Brown**)

Zoom Control (**Blue**)



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Camera Lens Control Signals

During Camera install and setup, applying DC voltage to the control lines of the camera will adjust the zoom or focus according to the polarity of the DC voltage applied to the control lines. Since these adjustments are made only during install and setup, it is recommended that a 9 VDC battery be used to make the settings. After setting the zoom and focus use tape or a wire nut to insulate the cable conductors corresponding to the Zoom (**Blue**), Common (**Brown**), and Focus (**Red**) conductors of the home run cable.

Zoom – P (Blue)	Lens Common – R (Brown)
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-VDC	+VDC
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+VDC	-VDC
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Focus – D (Red)	Lens Common – R (Brown)
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-VDC	+VDC
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+VDC	-VDC
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