



RHP-CT Installation Manual (Pelco)

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1 Integration into Pelco systems

1.1 Pelco system before integration of **RHP-CT**

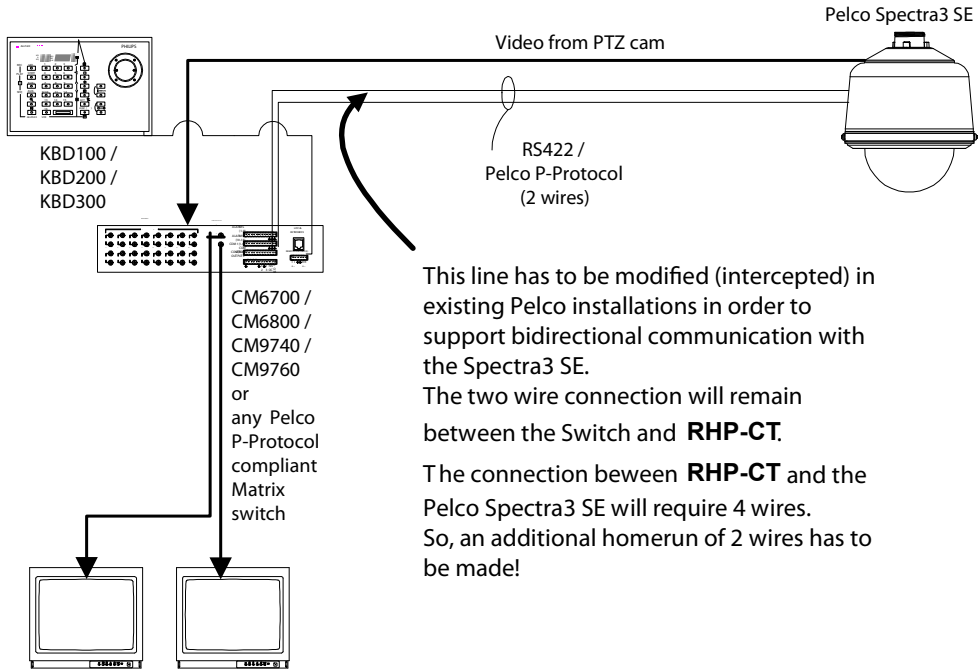


Figure 1: Pelco system before integration of **RHP-CT**

1.2 Pelco system after integration of **RHP-CT**

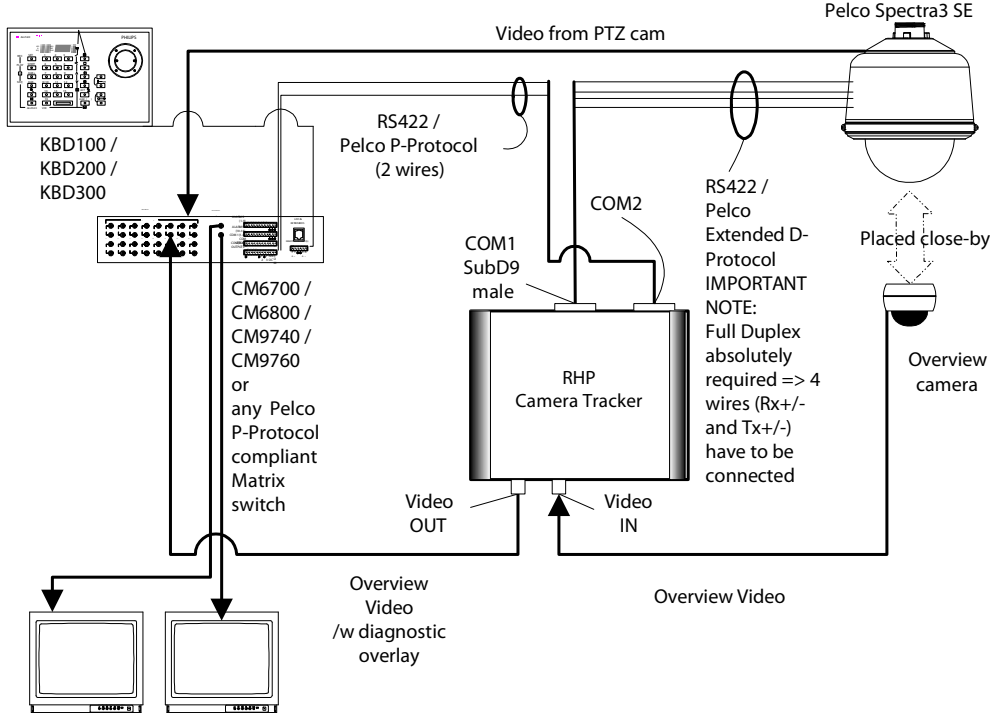


Figure 2: Pelco system after integration of **RHP-CT**

2 Installation

2.1 Mounting of the 2 cameras

The PTZ camera has to be mounted close (less than 50 cm / 20in) to the overview camera.

Be sure not to occlude the relevant field of view of any camera.

2.2 Connect video sources

The RHP-CT system depends on 2 cameras:

1 overview camera

1 PTZ camera

2.2.1 Connect the fixed camera

The video signal of the overview camera is fed into the Video IN BNC plug on the RHP-CT appliance.

2.2.2 Connect the PTZ camera

The video signal of the PTZ camera is **not** connected to the RHP-CT appliance.

The video signal is used as in common existing systems. It is fed into e.g. a Matrix switch.

The connection of the PTZ control lines is described in chapter 2.3: *Connect camera control lines*

2.3 Connect camera control lines to RHP-CT male COM1 port

RHP-CT depends on bi-directional communication to the PTZ camera.

Therefore a suitable cable has to be used! 2 Wires are not enough!

Common installations use normally only unidirectional communication for sending control data to the camera.

Usually this means that **additional wires have to be connected** in existing installations.

Camera Control lines have to be connected at the (**male**) RHP-CT COM1 Port.

2.3.1 Using Pelco Spectra 3 SE

The Pelco Spectra3SE has to be run over RS422 connection.

Coaxitron is **NOT** supported!

A 4 wire shielded twisted pair cable to connect the camera with RHP-CT is required.

Also a **SUBD9 female** plug will be needed!

IMPORTANT NOTE:

Connect all 4 wires to the terminal block connector used for RS422 connection!

The wiring instructions are depicted in *Figure 3: connecting RHP-CT with Spectra3SE*.

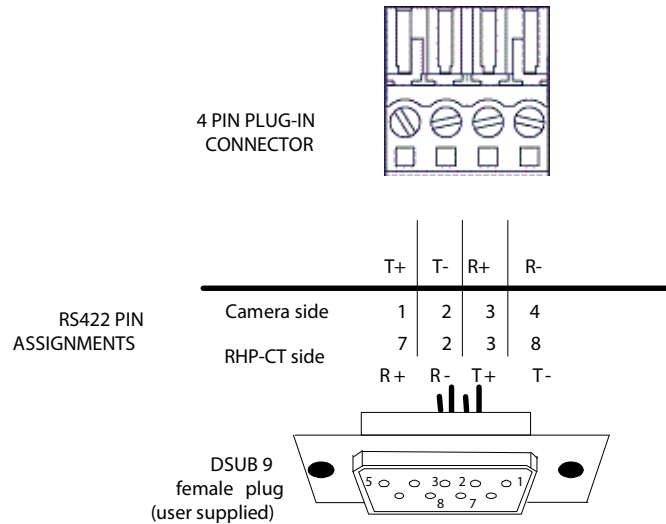


Figure 3: connecting **RHP-CT** with Spectra3SE

2.3.1.1 Spectra3SE settings:

- Baudrate: 9600 Baud
(please do not use the Pelco-default 4800 baud)
- Camera P address: Any address is allowed
(For test purposes select P-Address #1, this is default in RHP-CT)
- RS422

2.4 Connect Monitors

A Monitor may be connected directly to the RHP-CT Video OUT BNC Plug.

Most probably a matrix switch would be used instead. (see Chapter 2.6 Integration into Pelco systems)

Another Monitor (or the matrix switch) may be connected to the video line of the PTZ camera.

2.5 Connect controls to **RHP-CT's** female COM2 port

Any device running Pelco P-protocol may be connected directly to RHP-CT. This includes Pelco KBD200 or KBD300A Keyboards and compatible.

T+/- of the device has to be connected to R+/- of RHP-CT's female COM2 port.

In larger systems more probably a matrix switch will be used to transmit control commands to the camera via the RHP-CT appliance. (see Figure 2: Pelco system after integration of **RHP-CT**)

1.1.1 Using Pelco KBD200 / KBD300A

If you are using a matrix switch, please connect through the switch to RHP-CT.
(see Chapter 2.6 Connect a matrix switch)

If you are not using a matrix switch, please connect the T+ pin of the Keyboard with the R+ pin (pin #3) of the female subd9 plug, and T- pin of the Keyboard with the R- pin (pin #8) of the female subd9 plug. (similar to Figure 5: *RHP-CT* with CM6700)

2.6 Connect a matrix switch to *RHP-CT*'s female COM2 port

2.6.1 Matrix switch for control of PTZ cameras

Any matrix switch may be used, which supports the Pelco P-protocol. The Matrix switch must be connected to the female RHP-CT COM2 port. Please refer to Figure 2: Pelco system after integration of RHP-CT and The matrix switch must not be placed in the control line from RHP-CT to the camera. (see Figure 4: Important wiring instruction and Figure 2: Pelco system after integration of RHP-CT)

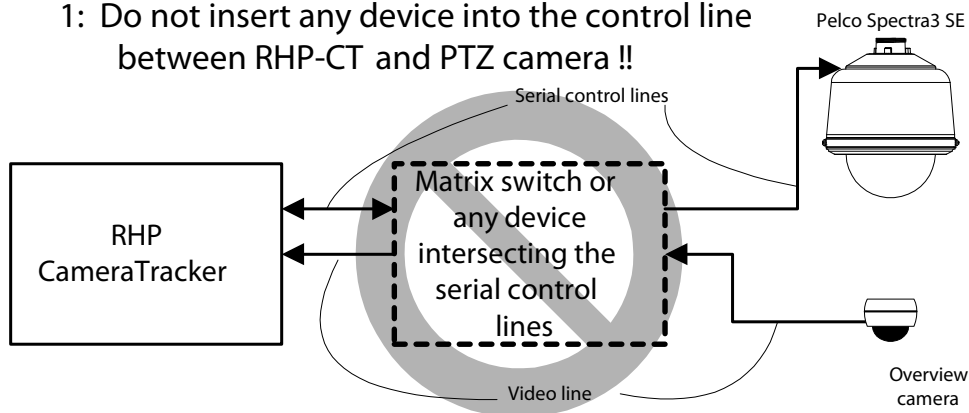
2.6.2 Matrix switch for control of video signals

If you do not need to control the PTZ camera via a keyboard, any matrix switch may be used to switch video signals.

It is not recommended to put the matrix switch into the video line between the RHP-CT and the overview camera. (see Figure 4: Important wiring instruction and Figure 2: Pelco system after integration of RHP-CT)

IMPORTANT NOTE:

1: Do not insert any device into the control line between RHP-CT and PTZ camera !!



2: It is not recommended to insert any device into the Video line coming from the overview camera !!

Figure 4: Important wiring instruction

2.6.3 Using Pelco CM6700

Please see also to the CM6700 matrix switcher installation and operation manual (PDF Document C523M-XY).

2.6.3.1 Connect to the COM 1 port of the CM6700 SCU

Please read the “connect control lines” paragraph in C523M .

You can connect RHP-CT as any other possibly daisy chained receiver or camera running the P-Protocol.

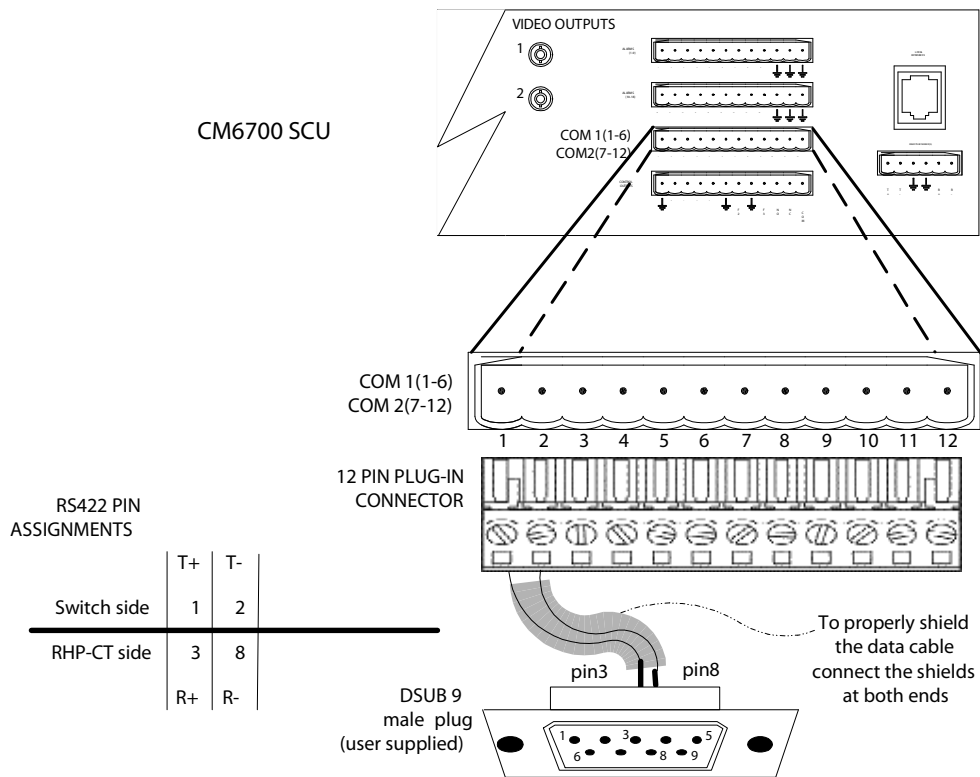


Figure 5: RHP-CT with CM6700

2.6.3.2 Connect to the COM 2 Port of the CM6700 SCU

Connection is similar to the connection to COM 1 port.

Only the wires #7 and #8 have to be connected instead of #1 and #2.

2.6.4 Using Pelco CM6800

Please consult the CM6800 matrix switcher installation and operation manual (PDF Document C1550M).

2.6.4.1 Connect to the PTZ A port of the CM6800

Please read the "connect control lines" paragraph in C1550M.

You can connect RHP-CT as any other possibly daisy chained receiver or camera running the P-Protocol.

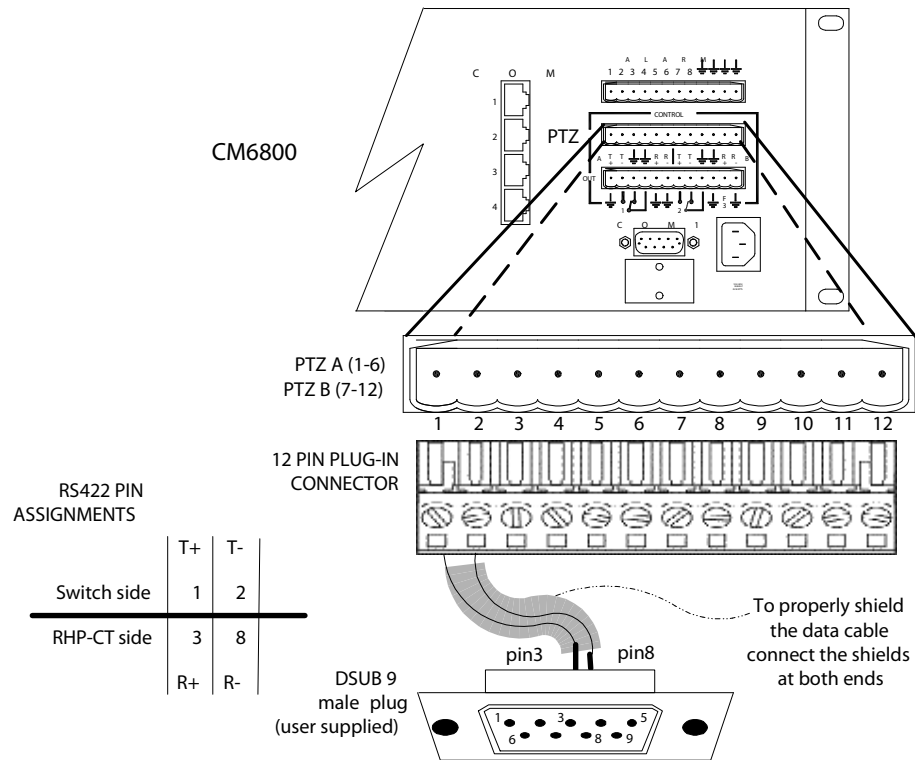


Figure 6: RHP-CT with CM6800

2.6.5 Using Pelco CM9740 / 9760

Please consult the CM9740 / CM9760 matrix switcher installation and operation manual (PDF Document C1503).

2.6.5.1 Connect to the RS422 Port of the CM6800

Please read the "additional hookup information" paragraph in C1503

You can connect RHP-CT as any other possibly daisy chained receiver or camera running the P-Protocol.

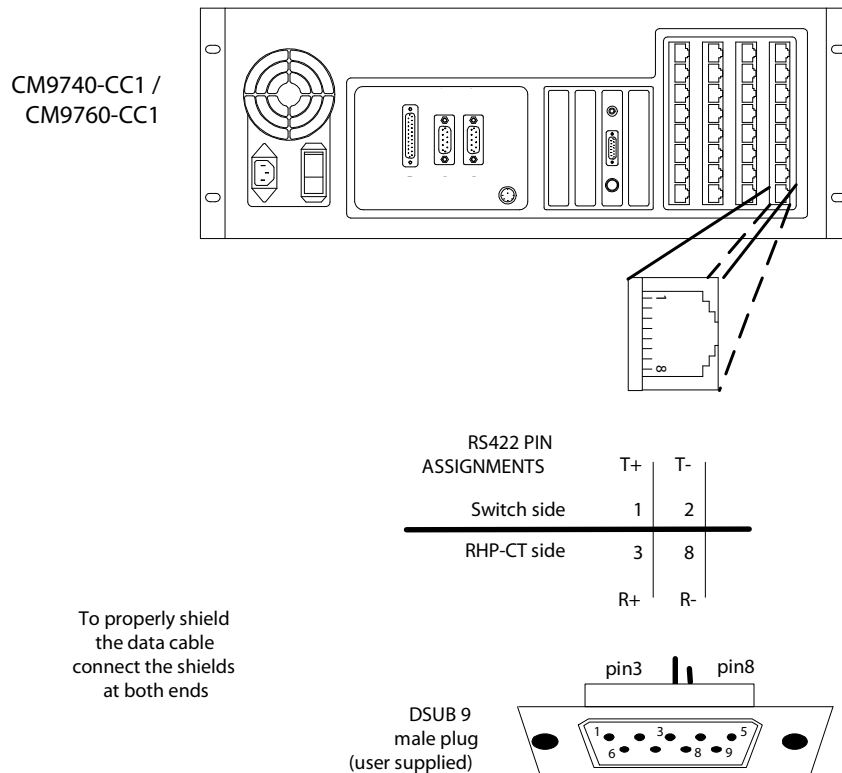


Figure 7: RHP-CT with CM9740 / CM9760

2.7 Connect Power line

Finally connect the RHP-CT appliance 12V DC power supply.

2.8 Setting up the RHP-CT software

- Set up the parameters of the communication lines for the PTZ camera.
- Set up the parameters of the communication lines for the control site equipment

Please see the RHP-CT instruction manual for setting up the RHP-CT Software.