KALATEL & PHILIPS PTZ INSTALLATION ON DS

May 23, 2011

Introduction

The procedure for installing PTZ cameras on an Pelco Digital Sentry system varies depending on the camera manufacturer. This document covers the installation of two camera types: Kalatel CyberDome and Philips G3 AutoDome. The following sections cover the specific installation instructions for each camera. Following is a brief summary of these instructions:

- **Kalatel CyberDome:** Installation involves connecting a KTD-312 RS-422 converter from Kalatel to the male DB-9 COM1 port on the DVMS, and then wiring the camera to the converter.

- **Philips G3 AutoDome:** Installation involves connecting an LTC 8784/60 RS-232 to Biphase Converter to the male DB-9 COM1 port on the DVMS, and then wiring the camera to the converter. In each case, multiple cameras can be connected in a star or daisy chain pattern (or a combination of the two). The final camera in any chain must be terminated, and each camera must have a unique address.

NOTE: Only one camera manufacturer and one COM port are supported at a time on the DVX series of products. DS XPress and DS Enterprise systems allow you to use multiple COM ports and PTZ camera types.

Connecting Multiple Cameras

Additional cameras are connected to the DVMS in a daisy chain, star, or combination configuration; the final camera in each chain must be terminated. Each camera must have a unique address; on DVX series systems, the address must match the video input number the camera is connected to on the DVMS (see the recorder's user manual). The address is set on each camera using dip switches or dials (see "Selecting Addresses" in each installation procedure). Sample configurations are shown in Figure 1.

See the camera manufacturer's installation manual for more information.

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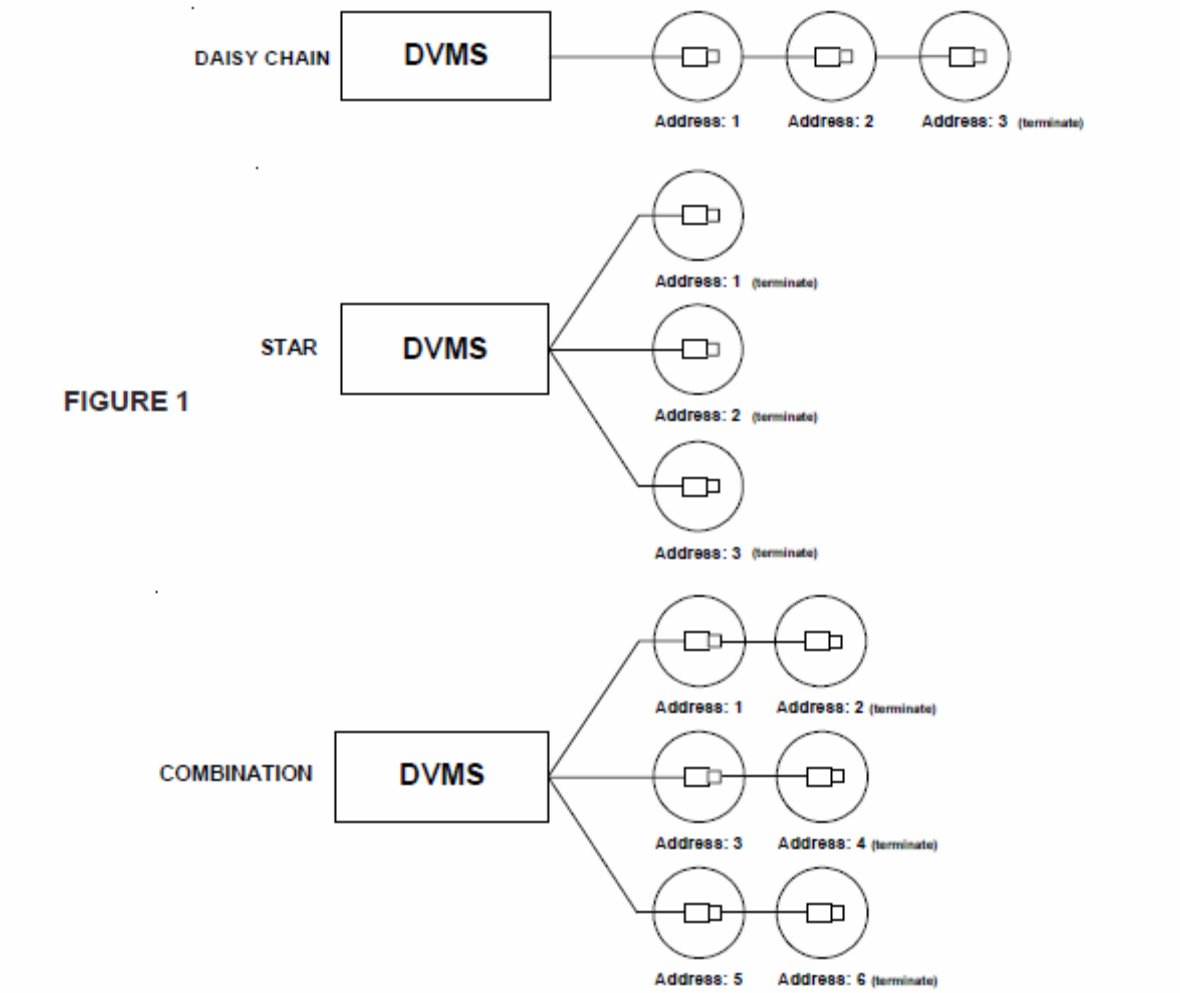


FIGURE 1

Installing Kalatel CyberDome on an Pelco Digital Sentry System

To use a Kalatel CyberDome PTZ camera with an Pelco Digital Sentry System, you must connect a KTD-312 RS-422 converter from Kalatel to the com port on the DVMS, and then wire the camera to the converter. This procedure is described in the following sections.

Kalatel CyberDome: Configuring the KTD-312 RS-422 converter

You must configure the KTD-312 converter for use with the DVMS. To do this, remove the cover to reveal the internal components of the converter (see Figure 7).

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Kalatel KTD-312 converter

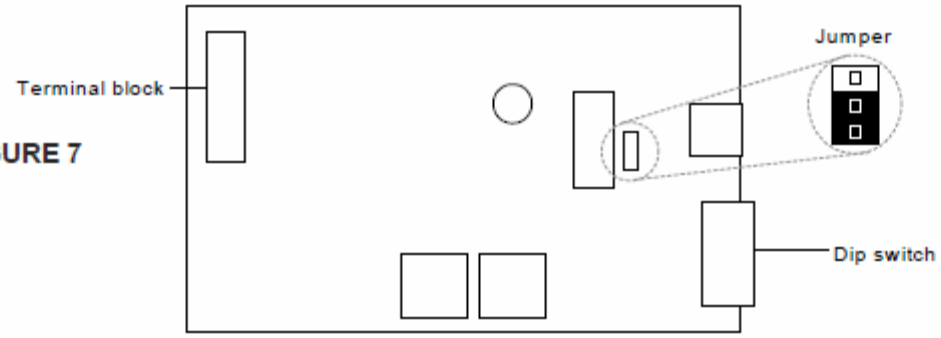


FIGURE 7

Set the orange jumper to Interface, as shown in Figure 7. Set the dip switches as shown in Table 5. The switches can be set while the cover is on the converter.

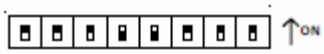


TABLE 5

Switch	Setting
1	OFF
2	OFF
3	OFF
4	*
5	ON**
6	UNUSED
7	UNUSED
8	UNUSED

*Depends on baud rate of the RS-422 network: 4800=OFF; 2400=ON
**The DVR and the KTD-312 converter communicate at 2400 baud (5 must be on)

Kalatel CyberDome: Connecting the converter to the camera

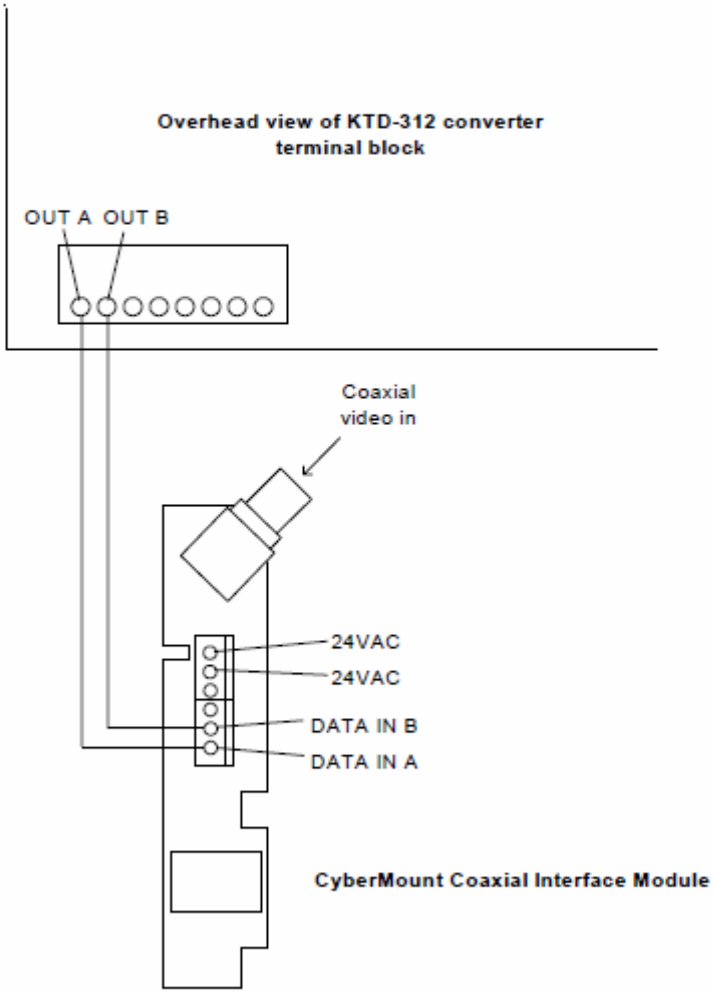
To connect the KTD-312 converter to the CyberDome camera, connect the OUT A and OUT B pins on the converter's terminal block to the DATA IN A and DATA IN B pins in the CyberMount Coaxial Interface Module in the camera (see Table 6 and Figure 8). Drawing not to scale.

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TABLE 6

KTD-312 converter pin	CyberMount Coaxial Interface Module pin
OUT A	DATA IN A
OUT B	DATA IN B

FIGURE 8



Kalatel CyberDome: Connecting to the DVMS

Figure 9 illustrates the connection points between the DVMS and the camera. The cable connecting the KTD-312 converter to the DVMS is provided by Kalatel. (Drawing not to scale; DVMS drawing may not match your particular DVMS model.)

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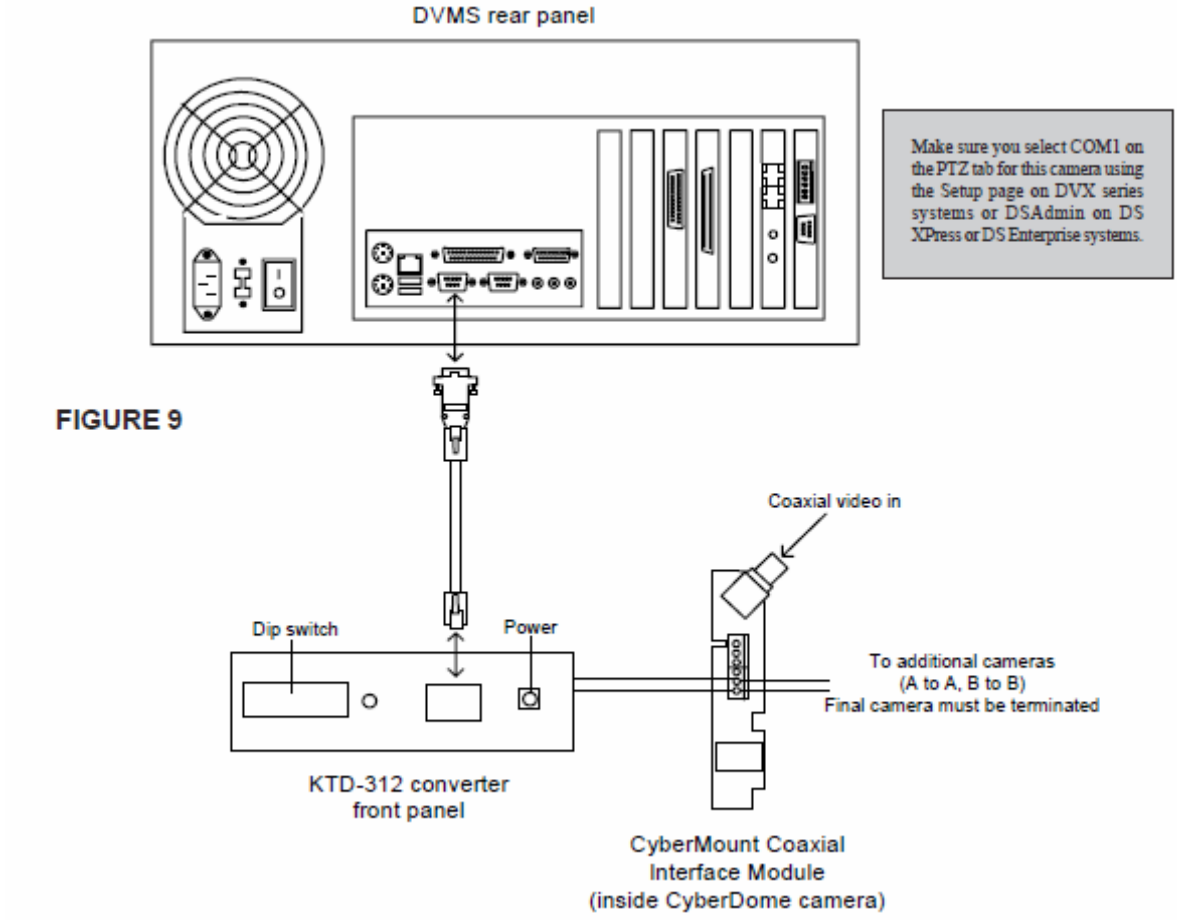


FIGURE 9

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Kalatel CyberDome: Selecting Addresses

Each CyberDome camera connected to a DVMS must have a unique physical address from 1 to 32; on DVX series systems, the address must match the video input number the camera is connected to on the DVMS. To select an address, use the dip switch on the CyberDome pan/tilt assembly (see Figure 10). Available addresses are shown in Table 7. Remember to terminate the final camera in each chain by sliding the red termination switch on the PC card at the top of the housing to the ON position (far left).

FIGURE 10

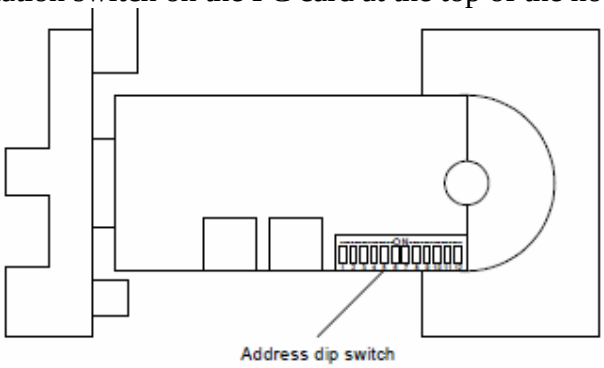
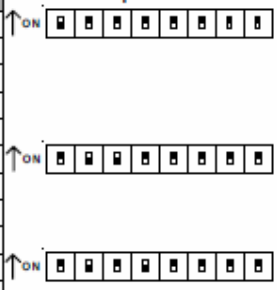


TABLE 7

Address	1	2	3	4	5	6	7	8
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
17	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
18	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
19	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
20	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
21	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
22	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
23	ON	ON	ON	OFF	ON	OFF	OFF	OFF
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
25	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	OFF	ON	ON	OFF	OFF	OFF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF
31	ON	ON	ON	ON	ON	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF

Examples



See the Kalatel CyberDome installation manual for more information.

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Installing Philips G3 AutoDome on an Integral DVMS

To use a Philips G3 AutoDome camera with an Integral DVMS, you must connect a RS-232 to Biphase Converter from Philips (model LTC 8784/60) to the com port on the DVMS, and then wire the camera to the converter. This procedure is described in the following sections.

Philips G3 AutoDome: Connecting the RS-232 to Biphase Converter to the camera

To connect the RS-232 to Biphase Converter to the AutoDome camera, connect the S, +, and – pins on the converter's terminal block to the Signal Ground, Code+, and Code– pins on P102 of the camera mount (see Table 8 and Figure 11). Drawing not to scale.

TABLE 8

RS-232 Biphase Converter pin	AutoDome P102 pin
S	SIGNAL GROUND
+	CODE+
–	CODE–

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Philips G3 AutoDome: Connecting to the DVMS

Figure 11 illustrates the connection points between the DVMS and the camera. The cable connecting the RS-232 Biphase Converter to the DVMS is provided by Philips. (Drawing not to scale; DVMS drawing may not match your particular DVMS model.)

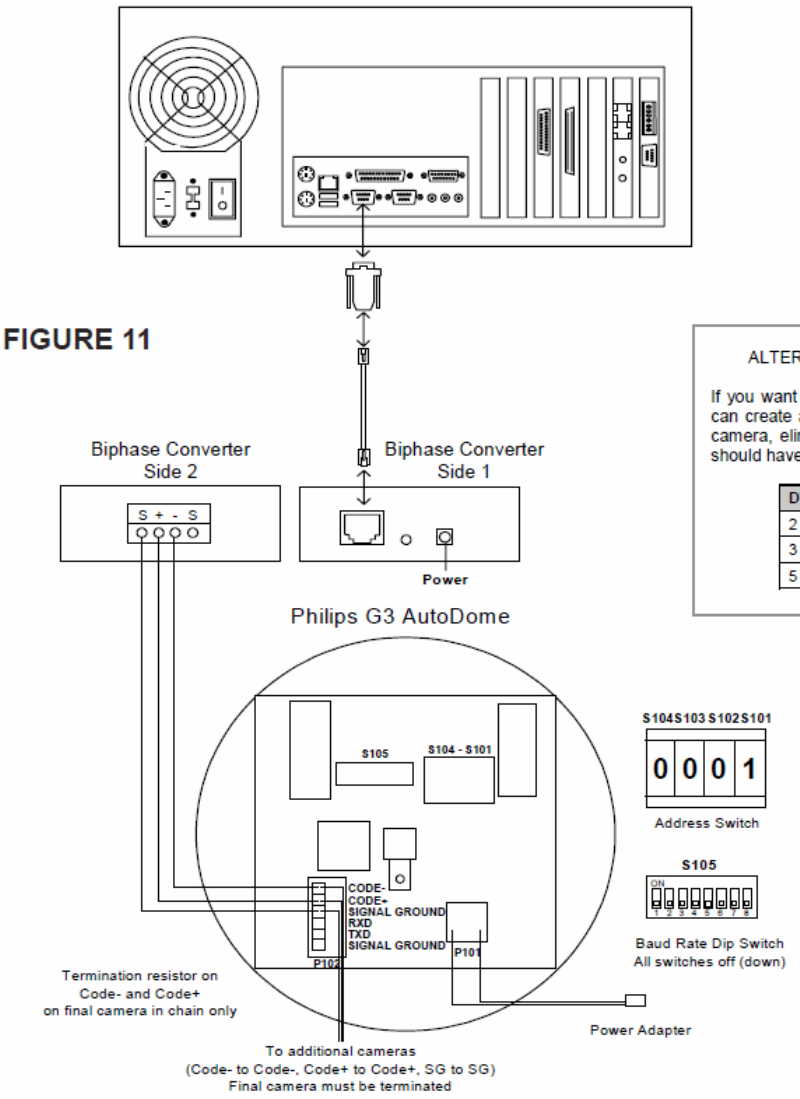


FIGURE 11

ALTERNATIVE SINGLE-CAMERA RS-232 SOLUTION

If you want to control a single Philips G3 AutoDome camera, you can create a cable to connect the DVMS COM port directly to the camera, eliminating the need for a Biphase Converter. The cable should have the following connections:

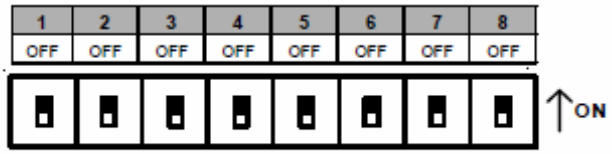
DVMS COM port pin	AutoDome P102 pin
2 (RXD)	TXD
3 (TXD)	RXD
5 (GND)	SIGNAL GROUND

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Philips G3 AutoDome: Selecting a Baud Rate

On the camera mount, you must set S105 to a 9600 baud rate. To do this, set the S105 switches on the bottom of the dome drive or camera to the settings shown in Figure 12 (ON=switch up; OFF=switch down).

FIGURE 12

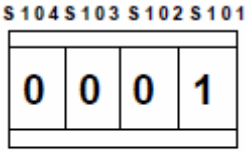


All switches off

Philips G3 AutoDome: Selecting Addresses

Each AutoDome camera connected to a DVMS must have a unique physical address from 1 to 32; on DVX series systems, the address must match the video input number the camera is connected to on the DVMS. To select an address, use the S101 to S104 thumbwheel on the camera (see Figure 13). Remember to terminate the final camera in each chain by applying the termination resistor to the Code+ and Code– pins on P102 of the camera mount.

FIGURE 13



See the Philips G3 AutoDome installation manual for more information.

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