

Field Information Notice

FIN #: 007	Rev. A Page 1/3
Date: 10/30/03	
Product: DX-TL2500U	
Subject: Controlling Kalatel PTZ Cyber Dome Cameras with the DX-TL2500U	
Target Audience: Sales/Dealers/User	
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GENERAL INFORMATION:

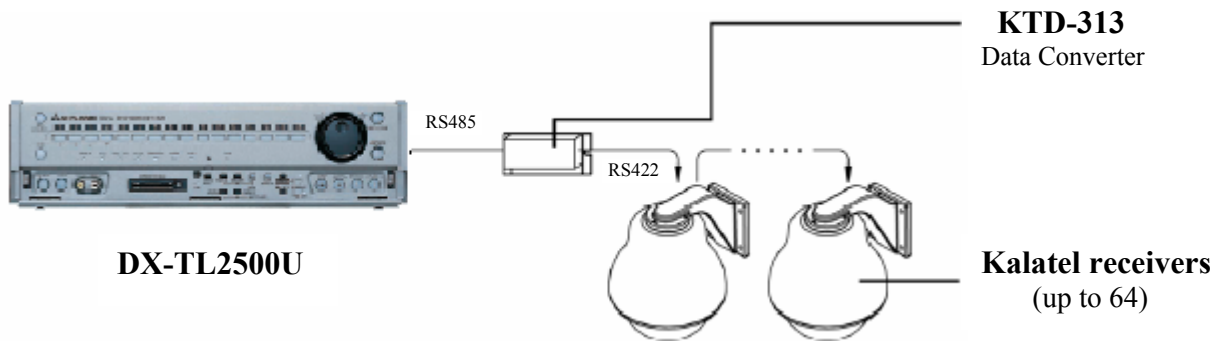
The DX-TL2500U is a 16 Channel Security DVR that records wavelet images on 240GB internal HDD. The DVR supports 3 types of PTZ protocol which include PELCO D, American Dynamics Manchester protocol and AMIKRON. Kalatel CyberDome cameras use Digiplex and ASCII protocol. The DX-TL2500U can control (wired remote and DX-PC25 software) Kalatel CyberDome cameras using the Kalatel DATA CONVERTER box (model KTD-313 that can be purchased at ADI or other distributor) which takes PELCO D/RS-485 (plus other protocols) and converts the data to RS-422 Digiplex output.

Data Converter *KTD-313*



Installation:

- **Setup Pelco-D/P In, Digiplex Out:** Receives commands from Pelco-D/P controllers and converts them to Digiplex RS422. This enables a Pelco-D system to control up to 254 Kalatel PTZ

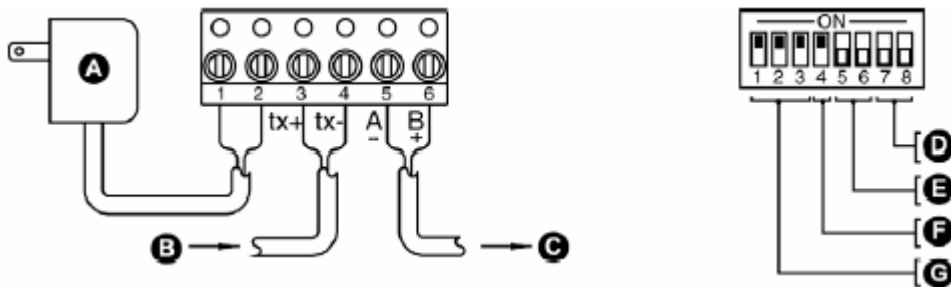


The KTD-313 must be between the DX-TL2500U and the Kalatel PTZ receiver.

Making Connection and Setting DIP Switches:

- The KTD-313 can use either 9V A/C or 12V DC. When DC is used, polarity does not matter on pins 1 and 2.
- Observe polarity when connecting the digital cables at the DVR side (RS-485, T+ to Pin 3 and T- to Pin 4 of the KTD-313) and at the PTZ side (RS-422, Pin 5 (A-) Pin 6 (B+))
- Set dip switches accordingly for Protocol, baud rate (match DVR baud rate settings), and termination of signal.

PELCO – D/P In, DIGIPLEX Out



- A** 9 VAC power supply
- B** Digital In (Pelco-D/P protocol)
- C** Digital out (Digiplex protocol)
- D** Termination:
ON for input termination
OFF for input loop through
- E** Pelco baud:
2400: 5 and 6 ON
4800: 5 OFF and 6 ON
9600: 5 ON (or OFF) and 6 OFF
- F** Pelco-D (4 OFF); Pelco-P (4 ON)
- G** Pelco-D/P in; Digital out (1,2, and 3 ON)

- For the DX-TL2500U to communicate (D protocol) with a Kalatel CyberDome PTZ camera (Digiplex protocol) using the KTD-313, the DIP switch setting on the KTD-313 should be as follows:
1, 2, and 3 ON,
4 OFF
5 and 6: depend on the baud rate you set on the DX-TL2500U
7 and 8 ON (unless the KTD-313 that is not at the end of a digital line.)

PTZ Camera Settings

- The camera receiver has a dip switch for address setting that must also be matched to the DX-TL2500U. Set this switch from 1 to 16, each PTZ must have its own unique address.

Checking and Testing the connection:

- Ensure DVR RS-485 wires T+ goes to KTD-313 pin 3 and DVR T- goes to pin 4 of KTD-313.
- Ensure KTD RS-422 output pin 5 (A goes to – of cameras RS-422) and pin 6 (B goes to + side of RS422).
- Check KTD-313 DIP switches setting match the DVR baud rate and address settings
- Double check PTZ camera receivers RS-422 connections, AC, video and camera address settings
- Apply power to PTZ camera (should go through its power up process).
- Turn DVR ON and SETUP Camera settings to PELCO, Baud Rate and Address number.
- Apply power to KTD-313 (9V A/C or 12V DC)
- With the DX-TL2500U wired remote connected to the DVR select PTZ with the OUTPUT button (PTZ will be displayed on main monitor) and press any of the PTZ control buttons on the remote and the camera should follow the given commands.
- To view, at the DVR, select PTZ camera channel for single screen on monitor.

DX-PC25 Software:

Launch software and once connection has been established, go to DX-PC25 Network pull down menu and select Control/PTZ control. When PTZ screens is displayed, use arrow and other commands to control PTZ camera. If needed, right click on the mouse and improve video quality.

Pelco-D/P in, Digiplex out command translations

For this Digiplex Result	Use this Pelco-D Entry	Use this Pelco-P Entry
Pan Right	Pan Right	Pan Right
Pan Left	Pan Left	Pan Left
Tilt Up	Tilt Up	Tilt Up
Tilt Down	Tilt Down	Tilt Down
Zoom In	Zoom Tele	Zoom In
Zoom Out	Zoom Wide	Zoom Out
Focus Near	Focus Near	Focus Near
Focus Far	Focus Far	Focus Far
Iris Open	Iris Open	Iris Open
Iris Close	Iris Close	Iris Close