

SAFEGUARDS AND WARNINGS

⚠ WARNING

Installation and servicing is only carried out by suitably qualified and experienced personnel.
 The DAX/UL is designed for use in general purpose CCTV applications and has no other purpose.
 The DAX/UL is designed to operate in class 2 general indoor environments.
 Do not install the DAX/UL where it is exposed to rain or moisture.
 The DAX/UL must be powered from a class 2 isolated power source as supplied.

CERTIFICATIONS

This product meets the requirements of the following standards:

Electromagnetic Compatibility

EN55022:1995 Limits and methods of measurement of radio disturbance characteristics of information technology
 EN50082-1:1992 Electromagnetic compatibility - Generic Immunity standard

Comprising:

- IEC 801-2:1991 Electrostatic discharge
- IEC 801-3:1984 Radiated electromagnetic fields
- IEC 801-4:1988 Fast transient bursts

Safety

EN 60950:1992 Safety of information technology equipment, including electrical business equipment

DECLARATIONS

The manufacturer declares that the DAX unit supplied with this manual is compliant with the EMC directive 89/336 EEC and the low voltage directive 73/23/EEC and 93/68/EEC.

UNPACKING

Keep your packaging. The DAX/UL is a Baxall Coaxial Telemetry-to-Dome Interface module and a power supply. The packaging should contain:

- A Baxall Coaxial Telemetry to Dome Interface Module
- 12 VDC class 2 isolated power supply
- These instructions

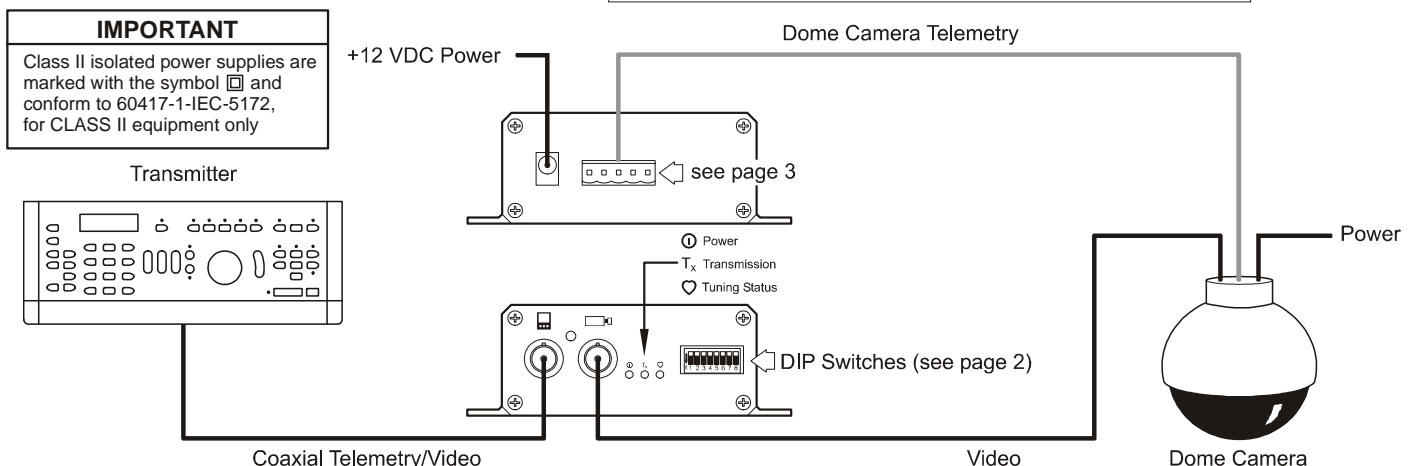
Check the product code on the serial number label. If you have an incorrect item or it is damaged then inform the suppliers and carriers immediately. If this is the case then do not attempt to use your unit.

DESCRIPTION

The DAX/UL converts Baxall coaxial telemetry into Dome telemetry. It connects between your transmitter and dome camera in the coaxial line as shown below. The DAX/UL requires a +12 VDC class 2 isolated power supply.

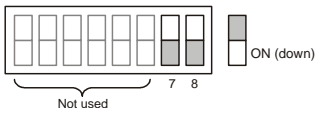
We do not recommend the use of the DAX range with fixed speed telemetry controllers. Best operation is achieved with the Baxall ZKX2/J, ZKX3/J or Vista NPX/RKB/J keyboard used with a ZTX6, ZMXplus, Vista Gen3 or Vista Columbus unit.

Note: Baxall Limited have tested and validated correct operation with cable lengths between the DAX unit and dome of 10 metres. For distances greater than 10 metres, the installer is advised to undertake a site trial to ensure satisfactory operation.



SWITCH SETTINGS

Your DAX/UL is compatible with Ultrak dome cameras that support the Maxpro dome Protocol. DIP switches located on the front of the DAX/UL are used to set various options as shown below:



Switch 7:

Switch 8 ON:




Switch 8 OFF:

Switch 7 should always be set to OFF

Autopan mode














Preset Tour mode with fixed dwell time of 5 seconds

EXTENDED FEATURES**Extended Preset Modes**

- The Baxall telemetry system normally transmits eight presets. The Wipe () key is used to enable access to an additional eight presets. To access the first eight presets, ensure that the Wipe () key is turned OFF and select the preset using keys 1 to 8. To access the second set of eight presets, press the Wipe () key to turn it ON and use the number keys 1 to 8 to access presets 9 to 16. This method gives a total of 16 preset positions.









Menu Mode

Use the following procedure to access the menu mode of the camera:








- Set the Camera Power () key on the transmitter to ON.
- Select from the following preset numbers to activate the desired menu:
 - 1 +  for the Main Setup menu
 - 2 +  for the Preshot menu
 - 3 +  for the Vectorscan menu
- When within a menu, the telemetry keys provide different functions:
 - The preset selection keys now operate as number keys for making menu selections or entering numeric values. The numbers 1 to 8 are entered using the corresponding number key with the Wipe () key set to OFF. The number 9 is entered by setting the Wipe () key to ON then pressing the number key 1. The number 0 is entered by setting the Wipe () key to ON then pressing the number key 2. The letter P is entered with the Wipe () key set to ON and pressing the number 3 key. Similarly, the letters V, T, Y and N can be entered with the Wipe () key set to ON and by using the number keys 4, 5, 6 and 7 respectively.
 - Use either Iris () key as the menu Enter key.
 - Use either Focus () key for entering D for the Delete option.
 - Use either Zoom () key for entering S for the Save option.
 - Use the Wash () key as the menu Exit key.
 - When required, the joystick will operate as a cursor control for cursor up, cursor down, cursor left and cursor right.

Tours and special functions

There are 4 versions of Tours or auto movements that can be accessed.

- Preset tour 1-16 fixed dwell time (5 s) recalled from DAX unit.
To Recall : Press the Autopan () key with DAX dip 8 set to OFF.
- Auto pan mode will pan the camera at a constant speed for 25 seconds in one direction, then 25 seconds in the reverse direction.
To recall: Press the Autopan () key with DAX dip 8 set to ON.
- Preset tour on the dome (called a tour on the dome) This is a pre-programmed macro of camera commands over a 2 minute period.
To recall tour 1, 2 or 3: Press the Lamps () key, select 1, 2 or 3 using the number keys then press the Preset () key.
To program tour 1, 2 or 3: Press the Lamps () key, select 4, 5 or 6 using the number keys then press the Preset () key.
To end tour programming: Press the Lamps () key, select 7 using the number keys then press the Preset () key.

To program a tour using the menu mode:

- Select Menu mode by setting the Camera Power () key to ON, then press 1 + .
- Select menu item 6 (PTZ tours).
- Select menu item 2 (program tour) followed by the Preset () key.
- Enter the tour number, 1,2 or 3, followed by the Preset () key followed by either Iris () key to enter.
- Set the Camera Power () to OFF.
- Move PTZ in tour / walk required (max 120 seconds).
- Press the Wash () key to end the tour.

EXTENDED FEATURES

4. Vector Scan mode. This is a movement between defined presets that can be programmed via the menu of the Dome unit.
- To recall:
- Set the Lamps (☰) key to ON then the press the Wipe (⌫) key.
 - Select the number of the vector scan required (1-8) followed by the Preset (ⓧ) key.
- To program:
- Select Menu mode by setting the Camera Power (Ⓜ) key to ON.
 - Select menu item 3 (Vectorscan menu) followed by the Preset (ⓧ) key.
 - Enter the tour number, 1-3, followed by the Preset (ⓧ) key followed by either Iris (Ⓜ) (Ⓜ) key to enter.
 - Use the menu mode keys to move through the screens to enter relevant numbers in the fields provided. Refer to dome manual for more information.
5. Day / Night mode swap is incorporated to enable colour to mono switching of the camera module.
- To toggle the current mode:
- Set the Lamps (☰) key to ON.
 - Select 8 followed by the Preset (ⓧ) key.

6. Storing presets.

ZTX6: Press the Function (F) key then enter the preset number*, then press the Preset (ⓧ) key.

ZMX: Press the Function (F) key then press the Preset (ⓧ) key and then enter the preset number*.

7. Recalling presets.

ZTX6: Enter the preset number* then press the Preset (ⓧ) key.

ZMX: Press the Preset (ⓧ) key then enter the preset number*.

* Preset number 1-8 corresponds to presets 1-8 with the Wipe (⌫) key OFF, and 9-16 with Wipe (⌫) key ON.

INSTALLATION

All video is 1V pk-pk composite via 75Ω video coaxial cable and BNC connectors. The connections to your DAX/UL are shown on the side label and in the schematic overleaf.

- Connect the +12 VDC and the Ultrak dome camera RS485 extension lead to the connectors on the interface unit according to the side label.
- Connect the interface Module to your transmitter and to your Ultrak dome camera according to the installation diagram.
- In order to access the **Tours and Special Functions** in the manner described above, the dome camera must be set to MAXPRO using switch S4 located on the KD6 receiver board - see the dome camera's instructions for more information.
- The Camera ID should be set to 1.

SPECIFICATION

Inputs: Baxall coaxial telemetry as defined by the Baxall coaxial telemetry specification, +12 VDC or 24 VAC.

Output: Ultrak Camera telemetry

Power: nom. +12 VDC (min. 8.0 VDC max. 24 VDC) class-2 isolated, 50mA max (0.6 Watts) or 24 VAC.

Power Supply: 230 VAC to +12 VDC class 2. Max 200mA.

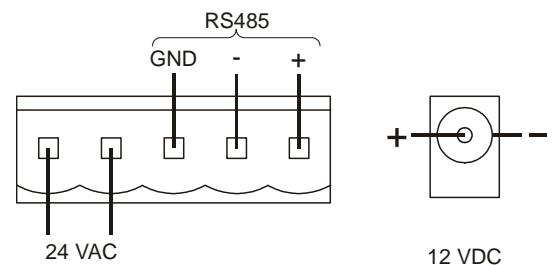
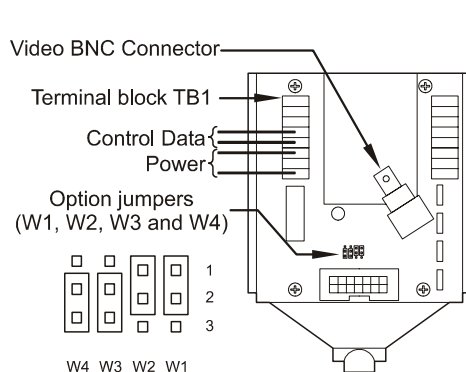
Dimensions: 115 x 107 x 37 mm. (WxDxH)O

Temperature limits: Only use this product between the temperatures of -10° and +40°C.

CONNECTORS

Terminal	Designation
TB1-1	24 VAC
TB1-2	N/C
TB1-3	24 VAC
TB1-4	Rx-
TB1-5	Rx+
TB1-6	Tx+ (not used)
TB1-7	Tx- (not used)
TB1-8	N/C

Jumper	Designation
W1	link 1 and 2 for RS485 terminated
W2	link 1 and 2 for RS485 terminated
W1	link 2 and 3 for RS485 un-terminated
W2	link 2 and 3 for RS485 un-terminated
W3	link 2 and 3 (default, do not change)
W4	link 2 and 3 (default, do not change)



IMPORTANT: The 24 VAC power supply must be a class 2 type. Do not make any connection to ground.

QUICK REFERENCE

Program Preset*	1 to 8: + <n> + (Preset) where <n> is the preset number 1 - 8	9 to 16: Set (Wipe) to ON, then + <n> + where <n> is the preset number 1=9; 2=10; etc.
Recall Preset*	1 to 8: <n> + (Preset) where <n> is the preset number 1 - 8	9 to 16: Set (Wipe) to ON, then <n> + where <n> is the preset number 1=9; 2=10; etc.

Recall a tour of presets 1 to 16	Note ensure DIP switch 8 is OFF
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Recall a Vector scan	Set and to ON, then <n> + Where <n> is the Vector scan to be recalled (1 - 9)
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Recall a Dome tour	Set to ON, then <n> + Where <n> is the Dome tour to be recalled (1 - 3)
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Recall the Auto pan function	Note ensure DIP switch 8 is ON
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Toggle Day to Night mode	Set to ON, then 8 +
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Access Main menu	Set to ON, then 1 +
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Access Preshot programming menu <i>(for programming beyond preset 16)</i>	Set to ON, then 2 +
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Access Vector scan programming menu	Set to ON, then 3 +
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MENU ENTRY COMMANDS

Select a menu item	<n> + Where <n> is the menu item number
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Enter a number	1 to 8: <n> + ; 9: Set to ON, then 1 + ; 0: Set to ON, then 2 +
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Entering letters	Set to ON, then for 'P' press 3 ; 'V' press 4 ; 'T' press 5 ; 'Y' press 6 ; 'N' press 7
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Enter	OR
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Exit menus (Escape)	
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To send a 'D' for Delete	OR
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To send an 'S' for Save	OR
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* For a fuller description of the key symbols used above, see the manual for the telemetry controller you are using.