

SAFEGUARDS AND WARNINGS

⚠ WARNING

Installation and servicing is only to be carried out by suitably qualified and experienced personnel.

This product is designed for use in general purpose CCTV applications and has no other purpose.

This product is designed to operate in a class 2 indoor general environment and must not be installed where exposed to rain or moisture.

This product 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

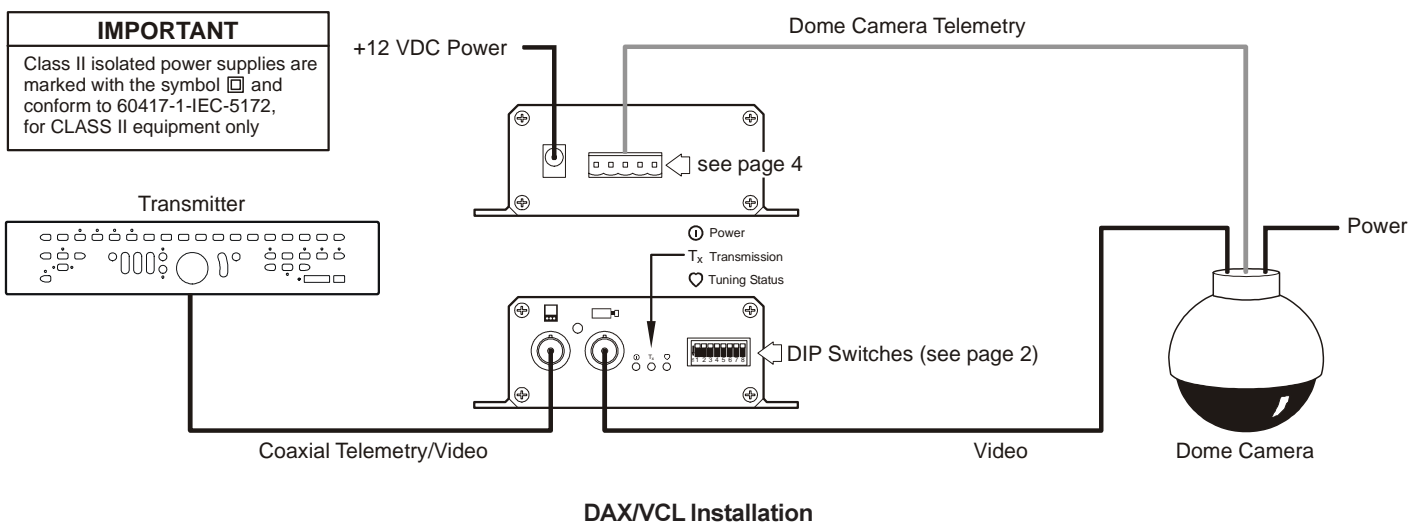
The manufacturer declares that the DAX unit supplied with this manual is compliant with the EMC directive 89/336 EEC and the low voltage directive 73/23/EEC and 93/68/EEC.

DESCRIPTION

The DAX/VCL converts Baxall coaxial telemetry into Dome telemetry. It connects between your transmitter and dome camera in the coaxial line as shown below. The DAX/VCL requires a +12 VDC or 24 VAC 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.

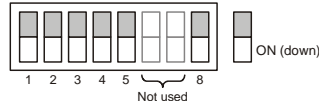
Note: Baxall Limited have tested and validated correct operation with cable lengths between the DAX unit and dome of 10 metres. For distances greater than 10 metres, the installer is advised to undertake a site trial to ensure satisfactory operation.



SWITCH SETTINGS

The DAX/VCL is compatible with the VCL manufactured Orbiter, Orbiter Lite and Jupiter models of dome camera. One DAX/VCL is required for each VCL dome camera installed—this product does not support daisy chain networks.

The DAX/VCL supports the programming and recall of up to 16 presets and 4 tours. It also supports auto-iris, auto-focus and colour to monochrome switching functions, where available (Orbiter model only). These functions are enabled or disabled using a bank of DIP switches on the end panel of the DAX/VCL, as described below:



Switch 1 ON:	Disable the auto-focus timer	Switch 1 OFF:	Enable the auto-focus timer
Switch 2 ON:	Disable the auto-iris timer	Switch 2 OFF:	Enable the auto-iris timer
Switch 3 ON:	Disable auto colour/mono switching	Switch 3 OFF:	Enable auto colour/mono switching
Switch 4 ON:	Tour seek speed of 100° per second	Switch 4 OFF:	Tour seek speed of 50° per second
Switch 5 ON:	20 second dwell time at each tour position	Switch 5 OFF:	4 second dwell time at each tour position
Switch 8 ON:	Autopan (↔) key starts the autopan function	Switch 8 OFF:	Autopan (↔) key recalls the last-used tour

STORING AND RECALLING PRESETS**Storing a Preset****ZTX6 (via Remote Keyboard)**

1. Press the Function (F) key.
2. Enter the preset number*.
3. Press the Preset (X) key.

ZMX+ (Front Panel)

1. Press the Telemetry (⊕) key.
2. Press the Function (F) key.
3. Press the Preset (X) key.
4. Enter the preset number*.

Recalling a Preset**ZTX6 (via Remote Keyboard)**

1. Enter the preset number to be recalled*.
2. Press the Preset (X) key.

ZMX+ (Front Panel)

1. Press the Telemetry (⊕) key.
2. Press the Preset (X) key.
3. Enter the preset number to be recalled*.

* Preset numbers can be between 1 and 16. To enter the number for a preset that is between 1 and 8, make sure the Wipe (∇) key is set to OFF and use the numbers 1 to 8 on the keyboard. To enter the number for a preset that is between 9 and 16, make sure the Wipe (∇) key is set to ON and use the numbers 1 to 8 on the keyboard.

STORING AND RECALLING TOURS**Storing a Tour**

Before programming and storing a tour, set the tour seek speed and tour dwell time using switches 4 and 5. For example to store a tour with 100° per second seek and a 4 second dwell time, the switches must be set in the following positions prior to programming:

- Set switch 4 to the ON position = Tour seek speed of 100° per second.
- Set switch 5 to the OFF position = 4 second dwell time at each tour position.

A tour can then be programmed and stored by following the procedure below:

ZTX6 (via Remote Keyboard)

1. Turn the Camera Power (⏻) key ON.
2. Press the Function (F) key.
3. Enter the tour number (1-4).
4. Press the Preset (X) key.
5. Enter the number of the first preset to be recalled. Turn the Wipe (∇) key ON to enter numbers 9-16.
6. Press the Preset (X) key.
7. Repeat steps 5 and 6 to add further presets to the tour, up to a maximum of 16 presets.
8. Turn the Camera Power (⏻) key OFF to store the tour.

ZMX+ (Front Panel)

1. Turn the Camera Power (⏻) key ON.
2. Press the Telemetry (⊕) key.
3. Press the Function (F) key.
4. Press the Preset (X) key.
5. Enter the tour number (1-4).
6. Press the Preset (X) key.
7. Enter the number of the first preset to be recalled. Turn the Wipe (∇) key ON to enter numbers 9-16.
8. Repeat steps 6 and 7 to add further presets to the tour, up to a maximum of 16 presets.
9. Turn the Camera Power (⏻) key OFF to store the tour.

Please note that changing the seek speed or dwell switches after programming a tour will have no effect. The switches are read during programming and then stored in the dome as part of the tour.

STORING AND RECALLING TOURS

Recalling a Tour**ZTX6 (via Remote Keyboard)**

1. Turn the Camera Power (⏻) key ON.
2. Enter the tour number to be recalled (1-4).
3. Press the Preset (ⓧ) key.

ZMX+ (Front Panel)

1. Press the Telemetry (Ⓢ) key.
 2. Turn the Camera Power (⏻) key ON.
 3. Press the Preset (ⓧ) key.
 4. Enter the tour number to be recalled (1-4).
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EXTENDED FEATURES**Auto-Focus Timer**

When the auto-focus timer is enabled, the operator can still focus the dome camera manually using the Focus Near (Ⓢ) and Focus Far (Ⓠ) keys on a transmitter. However, 20 seconds after the last focus key press, the dome camera will perform an auto-focus operation. When the auto-focus timer is disabled, all focus adjustments have to be made manually using the Focus Near (Ⓢ) and Focus Far (Ⓠ) keys on a transmitter.

Auto-Iris Timer

When the auto-iris timer is enabled, the operator can still adjust the iris on the dome camera manually using the Open Iris (Ⓢ) and Close Iris (Ⓠ) keys on a transmitter. However, 20 seconds after the last iris key press, the dome camera will perform an auto-iris operation. When the auto-iris timer is disabled, all iris adjustments have to be made manually using the Open Iris (Ⓢ) and Close Iris (Ⓠ) keys on a transmitter.

Automatic Colour/Mono Switching

When automatic colour/mono switching is enabled, the dome camera will switch between colour and monochrome operation at a default threshold. If automatic colour/mono switching is disabled, the Lamps (Ⓢ) key is used to manually toggle between colour and monochrome operation.

Autopan Mode

If switch 8 is turned ON, the effect of pressing the Autopan (↔) key is that the dome enters autopan mode. In autopan mode, the dome pans left for 20 seconds and then right for 20 seconds. This left/right movement will repeat until autopan mode is deactivated. To do this, press the Autopan (↔) key again or enter a telemetry command (i.e., move the joystick).

If switch 8 is turned OFF, the effect of pressing the Autopan (↔) key is that the last-used tour is recalled.

180° Pan Flip

To make the dome camera perform a 180° horizontal pan rotation (or 'pan flip'), press the Wash (Ⓢ) key.

INSTALLATION

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

- Connect the +12 VDC power supply and the Dome Cameras' RS485 extension lead to the connectors on the DAX/VCL according to the schematic diagram on page 1.
 - Connect the DAX/VCL to your transmitter and to your dome camera according to the schematic.
 - Since the DAX/VCL has internal termination, ensure that the dome camera is terminated i.e. termination ON.
 - Set the camera address to 1 (see your dome camera instructions for more details).
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SPECIFICATION

Inputs: Baxall-coaxial-telemetry as defined by the Baxall coaxial telemetry specification, +12 VDC.

Output: RS485 supporting VCL dome protocol telemetry (version CIMICRO8.E011 26.05.99 reformatted 22.07.99).

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

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

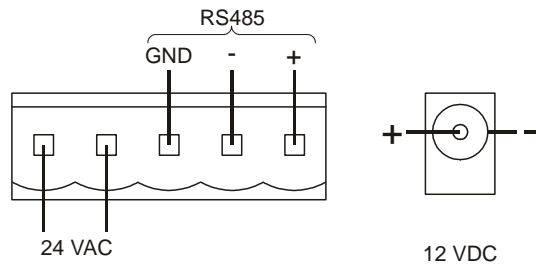
Dimensions: 115 x 107 x 37 mm. (WxDxH)

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

CABLE DISTANCES

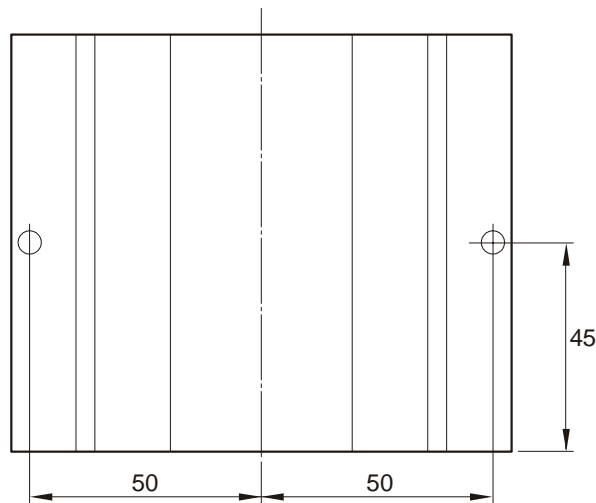
Type	Name	Maximum Distance (m)	Medium
Coaxial	RG59/URM70	250	Video
Coaxial	RG11/CT125	500	Video
Twisted-pair	Belden 8723	1000	RS485

CONNECTOR PIN-OUT



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

MOUNTING



Baxall Limited, Stockport, England. Visit our Web site: <http://www.baxall.com>

Baxall Limited reserve the right to make changes to the product and specification of the product without prior notice to the customer.