



PL6  
Adpro to TX1000 Interface



# Installation Guide



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## **PRE-INSTALLATION CHECKS AND SAFETY PROCEDURES**

**Unpacking** - Inspect the packaging for signs of damage. If damage has occurred, advise the carrier and/or the suppliers immediately. Unpack the unit carefully and check that all the items are present and correct (see checklist on box). If any item is missing contact the supplier.

**Retain Packaging** - The shipping carton is the safest container in which to transport the unit. Retain undamaged packaging for possible future use.

### **IMPORTANT SAFETY PRECAUTIONS**

**Read & Retain Instructions** - All relevant safety, installation and operating instructions should be read & retained before attempting to install, connect or operate the unit.

**Water and Moisture** - Do not expose the internal electronics of this unit to water or dampness.

**Power Sources** - This unit should be operated only from the supplied power supply.

**Servicing** - Servicing of the unit should only be undertaken by qualified service personnel.

**Damage Requiring Service** - Servicing by qualified personnel should be carried out under the following conditions:

- (a) When the power-supply cord or plug is damaged;
- (b) If liquid has been spilled, or objects have fallen into, the unit;
- (c) If the internal electronics of the unit have been exposed to rain or water;
- (d) If the unit does not operate normally by following the operating instructions.
- (e) If the unit has been dropped or the enclosure is damaged;

**Replacement Parts** - If replacement parts are required, ensure that only replacement parts recommended by the product manufacturer are used.

**Safety Check** - Upon completion of any service or repairs to the unit, safety checks should be performed to ensure that the unit is in proper operating condition.

**Pre-installation Checks** - It is recommended that the unit be bench-tested prior to installation on the site.

**Adhere to Safety Standards** - All normal safety precautions as laid down by British Standards and the Health and Safety at Work Act should be observed.

### **WARNING**

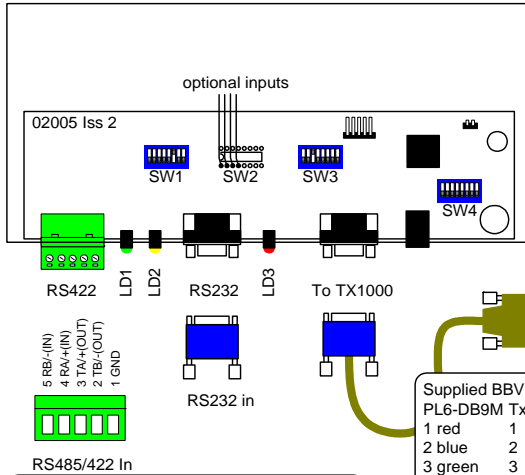
TO PREVENT DANGER OF FIRE OR SHOCK, DO NOT EXPOSE THE INTERNAL COMPONENTS OF THIS EQUIPMENT TO RAIN OR MOISTURE.

# PL6 Mk2 Adpro-TX1000 interface Preliminary Installation Sheet

Software Version 02005V7.MOT 10Oct03

The PL6 is designed to allow control of a BBV Tx1000 matrix from 3rd part equipment that outputs BBV Tx1000 control protocol but where to character pacing is too short to reliably control the matrix, eg Adpro VST10, FastScan and Fast Trace. It can also be used if the matrix commands are sent over say a computer network which compromises the character pacing.

Each PL6 is supplied with the following:  
 1 x PL6 in plastic enclosure  
 1 x Moulded DB9F to DB9M for Tx1000 (SA-PL64-3)  
 1 x DB9F connector  
 1 x DB9 blue hood  
 1 x This installation sheet



## LED guide

- RED LD3 Heartbeat flashes approx. 1 per second. Indicates power and processor is OK.
- YELLOW LD2 Flashes when data received from Adpro.
- GREEN LD1 Flashes command sent to the Tx1000. ON when PTZ is moving.

Supplied BBV Cable: SA-PL64-3  
 PL6-DB9M Tx1000-DB9F

1 red	1	+12 from Tx1000
2 blue	2	RS232 from Tx1000
3 green	3	RS232 to Tx1000
5 white	5	0V

## Input into PL6 from Adpro.

The PL6 will accept either RS232 via the DB9M or RS485/422 via the green connector and SW1/5 and SW1/6 are used for the selection. All other switches must be OFF.

Input	SW1/5	SW1/6
RS232 (default)	OFF	ON
RS485/422	ON	OFF

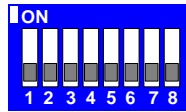
## RS232 mode connections. (default)

PL6	Adpro
2-RS232 into PL6	3-RS232 out
5-GND	5-Ground
	7-8 (enable RS232)

## RS485/422 mode connections

PL6	Fast Trace PTZ port
Pin 5/RB	3 (Data-)
Pin 4/RA	2 (Data+)

## SW4 Settings



- 1 Monitor selection
- 2 Datum time
- 3 Filter HASH
- 4 Fixed/Variable speed
- 5 Speed 4 or 8 when fixed

Switch	ON	OFF
1	MONITOR 1	MONITOR 2
2	5 MIN	2 MIN
3	HASH OK	FILTERED
4	VARIABLE	FIXED SPEED
5	SPEED 4	SPEED 8

Switch 1 selects which monitor output the PL6 is controlling, generally monitor 2 as the local monitor is monitor 1.

Switch 2 is used with contact inputs 1 & 2. To define the interval between repeating these functions. When input 1 is shorted each camera is put into patrol 1 and lights are turned OFF. When input 2 is shorted each camera is sent to preset 1 and the lights are turned ON.

Switch 3 is used to filter out HASH commands which could be generated with Central Station Software and cause intermittent control.

Switch 4 is used to select either fixed or variable pan/tilt speed. If in fixed speed mode then switch 5 gives a choice of two speeds.

Several contact inputs are provided that are used to improve site automation. These connections are made by soldering wires to the pads marked SW2 as shown in the small diagram. Shorting each input to ground will carry out the following:

Pad	Function
1	Makes all cameras run preset patrol 1 and turn receiver lights OFF
2	Makes all cameras goto preset 1 and turn receiver lights ON.
3	Makes the Tx1000 select MAXCAM camera. This is used if the a Tx1000/TP is used for offsite control via 20mA TP and local control is provided by another unit with coax telemetry.

For further assistance please call the BBV tech support line +44(0)1323 444600 or email support@bbvcctv.com www.bbvcctv.com

## Other BBV products.

Product	Description
<b>TX300</b>	Single camera desktop telemetry transmitter with BBV up-the-coax & 20mA telemetry, Pan/Tilt/Lens & Lights
<b>TX400</b>	As TX300 inc Wash, Wipe, Autopan, 8 presets, preset patrol.
<b>TX400DC</b>	As TX400 including joystick for proportional Pan/Tilt control.
<b>TX1000 MK2</b>	8 or 16 camera, 2 monitor telemetry transmitter. Up to 2 keyboards. BBV up-the-coax and RS422 standard with options for alarm inputs and 20mA telemetry.
<b>TX1500</b>	Mid size matrix 16 – 96 camera, 8 monitor. Up to 4 control positions (keyboard & remote control) options for alarms, remote control, BBV up-the-coax and RS485 telemetry.
<b>FBM range</b>	Large size matrix. Configurable up to 4096 cameras and 64 monitor outputs. Up to 16 control positions (keyboard & remote control) options for alarms, remote control RS485/RS422 telemetry with various options. Please call to discuss requirements.
<b>RX100</b>	Dome Interface with options to drive a large library of dome cameras. BBV up-the-coax and 20mA telemetry.
<b>RX100/BAX</b>	Dome Interface with options to drive a large library of dome cameras. BAXALL up-the-coax telemetry.
<b>RX200</b>	AC receiver for Pan only heads or static cameras, Wash/Wipe/Lights. BBV up-the-coax and 20mA telemetry.
<b>RX300</b>	AC receiver for Pan/Tilt/Zoom/Focus/Iris Override and 1 Auxiliary output. BBV up-the-coax and 20mA telemetry.
<b>RX400P</b>	AC full function receiver. PTZFI 4 Auxiliary outputs, 16 presets. BBV up-the-coax and 20mA telemetry.
<b>RX45X (AC) RX55X (DC)</b>  Multi RS485 protocol and BBV up-the-coax telemetry receivers	Multiple RS485/422 and BBV up-the-coax controllable AC and DC receivers. These receivers are controlled from an expanding range of serial protocols as listed below. 110/230Vac supply. PTZFI, 64 presets, preset patrol, 8 local alarm inputs, 12V 500mA supply output. OSD for remote diagnostics. 3 Aux. outputs RX55X or 4 Aux. outputs RX45X. Optional Privacy board. BBV RS485, COAX & 20mA, BAXALL COAX, DENNARD RS485, MOLYNX, PELCO P/D RS485, VCL/HONEYWELL RS485, PHILIPS/BOSCH RS485 (OPTIONAL BI-PHASE INPUT), SENSORMATIC/AD RS422 VICON RS422 & CIRBUS AUDIO MONITORING
<b>CTI16</b>	Multi-protocol serial converter that gives up-the-coax control to 16 cameras. BBV RS422, Dennard RS485, Pelco P, Pelco D, Philips/Bosch RS485/232, VCL RS485, Sensormatic RS422, Molyx, Vicon
<b>STARCARD</b> STARCARD/CONVERTER	8 * RS485 output, 2 wire simplex RS422, 4 wire full-duplex RS422, 2 wire half-duplex RS485. Optional STARCARD/CONVERTER offering protocol conversion to drive an increasing range of 3 <sup>rd</sup> party protocols.
<b>ACCESSORIES</b>	CTI/16 16 camera, RS422 to up-the-coax converter TxLD (bidirectional RS422-RS232 converter) 98005 (bidirectional 20mA-RS232 converter) AD RS422 (American Dynamics) protocol converters