# BBV Rx100 & Rx100/24 Philips Interface

## *Addendum to manual for the following dome:*

### *Philips AutoDome including G3A and G3B*
*(RS232 control only, not Bi-Phase compatible)*

### *Software version RX1_P3V10*
*For use with Rx100 PCB 97002 issue 4 only.*

## *Application Notes*

Variable speed Pan/Tilt.. Zoom/Focus, Autofocus. 16 full scene presets. 2 preset patrols. 4 alarm inputs driving to preset 1 – 4. Dome AutoPlay record & playback. Preshot title, Zone title, Menu Access

| Advanced Features | | Tx400DC | Tx1000 | Tx1500 | DM Sprite | DS/DSL/DS2/BX2 |
|---|---|---|---|---|---|---|
| Display Menu | (Aux 46) | '#' 1 | '#' WASH | '#' 1 | *889 002 | *889 10 10 2 |
| Program Zone Title | (Aux 63) | '#' 2 | '#' WIPE | '#' 2 | *889 003 | *889 10 10 3 |
| Record AutoPlay start/stop | (Aux 100) | '#' 3 | '#' AUTOPAN | '#' 3 | *889 004 | *889 10 10 4 |
| RESET DOME! | (Set 899) | '#' 4 | '#' LIGHTS | '#' 4 | *889 005 | *889 10 10 5 |

RS232 control of dome. Data rate, 9600 Baud, No parity, 8 Data bits, 1 Stop bits

Connection details:

| Dome | Description | Rx100 or DMP100/124 |
|---|---|---|
| RxD | RS232 I/P | J3/C1 |
| Gnd | Gnd | J3/GND |

Notes:
***Configuration links***:
**J6/pin 1-2** is used to select the address that the unit outputs. Fitted(Default) = Address 1, Removed = Address 10,000.
*Removing the link allows the receiver to be used as an alarm input unit for domes that are controlled using bi-phase telemetry. This will work with late model domes with post 2002 software.*

**J6/pin 4-5** *Removed – preset title text is programmed following a save preset command by automatically issuing a aux(62) command.*
*Fitted(Default) – the preset text command is not sent and the existing text is retained.*

*The alarm output relay opens for approx 5 seconds upon power up. This can be used to signal power loss, etc.*

*The dome must be RS232 controllable. BI-PHASE domes cannot be controlled.*
*Dome settings: Select dome address #0 or #1. Communications must be 9600, N, 8, 1. The G3 Basic address is software programmable, however as default the dome is addressed as #0. If the dome address is not #0 or #1 then the dome will require reprogramming using a Philips controller or removing link J6/1-2.*

A TEST link is used to confirm correct operation of the Rx100 and dome and also that the RS485 connection is correct. Shorting the link after the Rx100 is powered up will cause the dome to pan left and zoom in. Removing the link cause the dome to zoom out and stop panning left. The green data led should also flash to indicate RS485 sent to the dome.

If the TEST link is shorted when power is applied to the Rx100 will cause a receiver self test function to start. This is an advanced function that BBV support engineers may request during fault diagnosis. To stop the self test, remove the link and power the Rx100 off and on again.

## Using the advanced features when using a BBV Tx1000DC
**Menu Access: Press and HOLD # and tap WASH <u>TWICE</u> will display the dome's menu.**
Use the joystick to navigate the cursor. **FOCUS FAR** or **FOCUS NEAR** can be pressed to enter the next menu item or to return press either **IRIS OPEN** or **IRIS CLOSE**. When completely out of the menu issue a goto preset command to put the interface into normal mode. Press and HOLD **PRESET** whilst taping **1** will move to preshot 1.
**Program Zone Title: Press and HOLD # and tap WIPE will allow the title for the current zone to be programmed.**
Use the joystick as described on screen. Use the following keystrokes to program the text:
**FOCUS NEAR** – Select a current character, **FOCUS FAR** – Clear character, **IRIS CLOSE** – Backspace and **IRIS OPEN** – Return
**Record Autoplay: Press and HOLD # and tap AUTOPAN will allow autoplay 'A' to be recorded.**
Press **FOCUS FAR** or **FOCUS NEAR** to start the recording or **IRIS CLOSE** to abandon recording. Once recording has started, use the joystick and focus keys as required. To end the recording, press and **HOLD #** and tap **AUTOPAN**. The recording can be replayed continuously be pressing the **AUTOPAN** key.
**Reset dome defaults: Press and HOLD # and tap LIGHTS <u>TWICE</u> to display the dome's software version. Repeating the key strokes for a <u>THIRD</u> time will issue a SET 899 to reset the dome including ALL PRESET POSITIONS.**
***<u>USE WITH EXTREME CARE AS ALL THE DOME PROGRAMMING WILL BE LOST.</u>***

**Programming preshot text**. To program a preshot position press **PROGRAM** then **1** followed by number of the preshot. EG to program preshot 1 press **PROGRAM 1 1**. To program preshot 2 press **PROGRAM 1 2**. To program preset 14 press **PROGRAM 1 14**. After the preshot has been programmed the interface issues an AUX 62 to display the preshot text menu. The same keystrokes are used to program preshot text as when programming zone titles.

## Using the advanced features when using a BBV Tx400DC

**Menu Access: Press and HOLD # and tap 1 <u>TWICE</u> will display the dome's menu**
Use the joystick to navigate the cursor. **FOCUS FAR** or **FOCUS NEAR** can be pressed to enter the next menu item or to return press either **IRIS OPEN** or **IRIS CLOSE**. When completely out of the menu issue a goto preset command to put the Rx100 into normal mode. Press **1** will move to preshot 1.

**Program Zone Title: Press and HOLD # and tap 2 will allow the title for the current zone to be programmed.**
Use the joystick as described on screen. Use the following keystrokes to program the text:
**FOCUS NEAR** – Select a current character, **FOCUS FAR** – Clear character, **IRIS CLOSE** – Backspace and **IRIS OPEN** – Return

**Record Autoplay: Press and HOLD # and tap 3 allow autoplay 'A' to be recorded.**
Press **FOCUS FAR** or **FOCUS NEAR** to start the recording or **IRIS CLOSE** to abandon recording. Once recording has started, use the joystick and focus keys as required. To end the recording, press and **HOLD #** and tap **3**. The recording can be replayed continuously be pressing the **AUTOPAN** key.

**Reset dome defaults: Press and HOLD # and tap 4 <u>TWICE</u> to display the dome's software version. Repeating the key strokes for a <u>THIRD</u> time will issue a SET 899 to reset the dome including ALL PRESET POSITIONS.**
*<u>USE WITH EXTREME CARE AS ALL THE DOME PROGRAMMING WILL BE LOST.</u>*


**Programming preshot text**. To program a preshot position press and HOLD **PROGRAM** then tap the preshot require, 1 – 8.
EG to program preshot 1 press and HOLD **PROGRAM** then tap **1**. To program preshot 2 press and HOLD **PROGRAM** and tap **2**. To program preset 8 press and HOLD **PROGRAM** and tap **8**. After the preshot has been programmed the Rx100 issues an AUX 62 to display the preshot text menu. The same keystrokes are used to program preshot text as when programming zone titles.


## Using the advanced features when using a DM Sprite and Digital Sprite keyboard.

The DM units use a series of * commands to access the advanced features. The Digital Sprite or DS does not have a '0' key instead the '10' key is used when ever the '0' key is mentioned. Eg to access the dome menu on a System Sprite you would key *889 002 and on the Digital DS you would key in *889 10 10 2. The examples below assume control from the Digital Sprite keyboard. If a System Sprite is used then please use the '0' key whenever the '10' key is mentioned.

**Menu Access: *889 10 10 2 repeated <u>TWICE</u> will display the dome's menu**
Use the joystick to navigate the cursor. **FOCUS FAR** or **FOCUS NEAR** can be pressed to enter the next menu item or to return use **\*889 10 10 3** which simulates an iris command. When completely out of the menu issue a goto preset command to put the Rx100 into normal mode. Pressing **PRESET** followed by **10 1** will goto preshot 1.

**Program Zone Title: *889 10 10 3 will allow the title for the current zone to be programmed.**
Use the joystick as described on screen. Use the following keystrokes to program the text:
**FOCUS NEAR** – Select a current character, **FOCUS FAR** – Clear character, **\*889 10 10 4** – Backspace and **\*889 10 10 3** – Return

**Record Autoplay: *889 10 10 4 will allow autoplay A to be recorded.**
Press **FOCUS FAR** or **FOCUS NEAR** to start the recording or **\*889 10 10 3** to abandon recording. Once recording has started, use the joystick and focus keys as required. To end the recording, press **\*889 10 10 4**. The recording can be replayed continuously be pressing the **AUTOPAN** key.

**Reset dome defaults: *889 10 10 5 repeated <u>TWICE</u> to display the dome's software version. Repeating the key strokes for a <u>THIRD</u> time will issue a SET 899 to reset the dome including ALL PRESET POSITIONS.**
*<u>USE WITH EXTREME CARE AS ALL THE DOME PROGRAMMING WILL BE LOST.</u>*

**Programming preshot text**. To program a preshot position press and hold the **PRESET** button until the display asks for preset number. Use the camera keys to enter a 2 digit number from 01 – 16. Use the **10** key to represent 0. After the preshot has been programmed the Rx100 issues an AUX 62 to display the preshot text menu. The same keystrokes are used to program preshot text as when programming zone titles. EG to program preshot 2, press and hold **PRESET**, wait for the display, press **10** then **2**.


## Control from DM Digital Sprite 2 systems

The new DM Digital Sprite 2 (DS2) keyboard now supports iris directly again. Therefore navigation through the menus will be easier.


20 May 03 –Version 10 Changed * command from *888 to *889 on Autoplay.
19 Feb 03 – Version 9 modified for 97002 issue 4 PCB.
18 July 02 -  Version 7 introduced to allow telemetry control via BBV 20mA current loop.