

BBV Rx 100 Interface Receiver



**Addendum to manual for the following dome:
Dynacolor 7720**

COAXIAL TELEMETRY ONLY NOT 20mA

(Software version RX1_D4V4 issue 4 97002 pcb)

Application Notes

Variable speed Pan/Tilt.
Zoom/Focus
16 full scene presets
2 preset patrols
4 alarm inputs driving to preset 1 – 4

Additional Features	Tx400	Tx1000	Tx1500	DM Sprite	DM/DS/DSL/DS2
Dome Menu and ENTER (twice)	'#' 1	'#' WASH	1 '#'	*889 002	*889 10 10 2
Exit Dome Menu	'#' 2	'#' WIPE	2 '#'	*889 003	*889 10 10 3
Dome Reset (3 times)	'#' 4	'#' LIGHTS	4 '#'	*889 005	*889 10 10 5

Menu access – example using the Tx1500 system

Press 1# 1# will display the dome's menu and put the Rx100 in menu mode. In this mode the joystick allows navigation and either IRIS OPEN or IRIS CLOSE or 1# is used when ENTER is required. After exiting the menu, press 2# to set the Rx100 back into normal mode and the joystick will then revert to pan/tilt control.

Dome Reset

This command will cause the dome to carry out a system reset, including erasing any preset positions and programming. This command must be used with extreme caution. To activation the dome reset, the command must entered 3 times, eg for the Tx1500, press 4# 4# 4#.

Cruise

Recording: The dome has a built in cruise facility allowing the operator to record and playback a period of manual dome movement. The exact procedure varies depending upon the control equipment and version of dome firmware. The example shown assumes that the dome is controlled using a Tx1500.

To record the cruise, you must enter the dome menu using 1# 1# and navigate to the RECORD START entry within the CRUISE menu. After pressing the ENTER command using 1# you must exit the dome menu using 2# to allow the joystick to be used to move the dome around the intended area. To complete the cruise, press the Dome Menu command twice using 1# 2# to allow the joystick to be used to navigate to the RECORD END line. Pressing the ENTER command using 1# saves the cruise. Navigate out of the menu and exit the dome menu using 2#.

Playback: The cruise can be started by pressing the AUTOPAN key on the controller.

Return to home: Link J6/pin 4-5 if fitted will cause the dome to return to preset 8 after 5 minutes of inactivity.

Speed select: Two versions of dome protocol are published. The early version has uses speeds 0 – 8 and the later version has speeds 0 – 15. Link J6/1-2 when fitted selects the later version and removed the earlier version. If the dome speed controls are very 'sluggish' then try operation with the link in the other position.

RS485 control of dome. Data rate, 9600 Baud, No parity, 8 Data bits, 1 Stop bits

Connection details:

Dome	Description	Rx100
D-	RS485 Data -	J3/C1
D+	RS485 Data+	J3/C2

Notes:

The alarm output relay opens for approx 5 seconds upon power up. This can be used to signal power loss, etc. Check with the DM multiplexer manual for exact procedure for entering * commands.

Dome switch settings:

Early dome - Set dome address to 1: 8 way switch 1 ON, 2-7 OFF. 4 way switch 1-3 ON, 4 OFF.

Later dome – Dome ID switch: 1 ON, 2-8 OFF. Duplex/Simplex switch: 1-2 OFF. Dynacolor protocol S2: 1-4 OFF, S1: 1-3 ON