BBV RX100 Dome Interface

Application Notes

The RX 100 is designed to offer a simple solution for applications where there is a need to control a variety of pan and tilt mechanisms. The receiver offers considerable opportunities for upgrading existing BBV telemetry systems as it is now possible to add a wide range of integrated domes into the system.

Features

- Compatible with both fixed speed and proportionally controlled variable speed domes.
- No additional cabling required. Designed to operate over 500m using standard CT125 coaxial cable.
- Video launch amplifier provides loss compensation for optimum picture quality.
- 4 local alarm inputs are available. When activated these will call up pre-sets1-4.
- Will operate on 20mA current loop as standard for situations where coax control is impractical (Some domes are coax telemetry only - check with BBV first)
- Common alarm out contact (momentarily opens on alarm)
- On board lights relay operated from the transmitter keyboard for switching loads of up to 1Kw
- Low voltage supply.
- Compatible with all BBV telemetry transmitters and equipment using BBV up-the-coax telemetry, eg: DM DS2/BX2, Adpro AMUX, Sanyo DVR, Tecton Darlex
- Simple to install. No specialised knowledge required.
- Rx100/24 powered from 230Vac with 24Vac 100VA dome supply output. The Rx100/24 can also be powered from 24VAc

Technical Specification

Power Requirements	9-12V ac/dc (Rx100/24 requires 230Vac or 24Vac)
Max Load	100mA at 12V
Outputs	RS232, RS422, RS485 serial data (dome specific)
Facilities	Unit auto tunes to the coaxial signal. LED readout for continual system status. Video launch amplifier provided with Gain and Lift adjustment Colour coded outlets - live, neutral, earth, low voltage.
Telemetry signals	Up-the-coax telemetry signals designed to operate over 250M of RG59 or 500m of CT125 coaxial cable or via twisted pair 20mA current loop.
Lights Output	Able to switch up to 1Kw of lighting.
Video Input	1v p-p 75R terminated input via BNC socket.
Video Output	1v to 4v p-p 75R impedance via BNC socket.

Boxed dimensions

Width:	**280mm**	Boxed weight	**0.6Kg**
Length:	**190mm**	Temperature range	**-10°C to +40°C**
Height:	**130mm**	Protection	**IP67**

(RX100/24 Box   Width:**380mm** Length:**190mm** Height:**130mm** Weight:**2Kg)**

Capable of driving the following domes

Dome Model	Speed	Presets	Preset Patrols	Alarms	Lens Control	Additional Features
[1] 360 Vision Dome	Variable	16	2 + slow tour	4 ➜Preset	Z/F/I	Privacy
Borsatec BT270FF/271FF	Variable	16	2	4 ➜Preset	Z/F	Autopan, dome reset
Bischke Webcam (RS232)	Variable	16	2	4 ➜Preset	Z/F	
Chugai/Computar: SMD-08	18°/Sec	16 @ 90°/Sec	2	4 ➜Preset	Z/F	Shutter
Chugai/Computar: SMD-08II, SMD-12,SMD-12II, SMD-20	Variable	16	2	4 ➜Preset	Z/F/I	Remote camera reset
[1] Chugai/Ganz: ZC-S122/123	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
Daiwa DMP16H3	Variable	16	2	4 ➜Preset	Z/F	Autopan, dome reset
Dennard 2050	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
[CO] Diamond SmartScan	Variable	16	2	4 ➜Preset	Z/F	Slow Patrol
[CO] Dynacolor 7720	Variable	16	2	4 ➜Preset	Z/F	Dome Menu
Forward MIC 1300	Variable	16	2	4 ➜Preset	Z/F	
[1] JVC TK-C675/675B	Variable	16	2	4 ➜Preset	Z/F/I	Shutter/Backlight
[1] JVC TK-C676	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu, slow patrol
Kalatel Cyberdome (1/1/02 or later)	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu, Shadow Tour
Mark Mercer D250MPT & equiv.	Variable	16	2	4 ➜Preset	Z/F	
Merit Li-Lin PIH 717X	Variable	16	2	4 ➜Preset	Z/F	
Mitsubishi CCD400(camera module)	-	-	-	-	Z/F	Backlight, Shutter, White Bal
[1] Panasonic CSR400 CSR600 CSR650	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
[1] Panasonic CS850	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
[1] Pelco SD5 Series Spectra	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
[1] Philips G3 AutoDome (RS232)	Variable	16	2	4 ➜Preset	Z/F/I	AutoPlay, AGC, Backlight
[1] Samsung SCC-641P	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu, Pattern playback
Sanyo VCC-9200P	Variable	16	2	4 ➜Preset	Z/F/I	Remote camera reset
[CO] [1] Sensormatic Speeddome RS422	Variable	7	2	4 ➜Preset	Z/F/I	Dome Menu
Silent Witness/Gyyr VORTEX (PelcoP)	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
Star MD100	18°/Sec	16 @ 90°/Sec	2	4 ➜Preset	Z/F	Shutter
Star MD800 MD1200S MD1200H MD2000	Variable	16	2	4 ➜Preset	Z/F/I	Remote camera reset
[CO] Sony EVI-31D webcam (RS232)	Variable	16	2	4 ➜Preset	Z/F	Backlight, White Balance
[CO][1] Ulltrak KD6	Variable	16	2	4 ➜Preset	Z/F	Slow Patrol
VCL - TP protocol	Variable	16	2	4 ➜Preset	Z/F	Tour, Autoflip, Privacy Zones
[CO][1] VICON Surveyor 2000	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu
[1] Videon BV830/850/860/880SDB	Variable	16	2	4 ➜Preset	Z/F/I	Menu, Privacy, Pattern Tour 1
Vista Powerdome	Variable	16	2	4 ➜Preset	Z/F/I	Dome Menu, Learn Tour

Key

[1]   24Vac dome model has been tested and works with the Rx100/24 interface.
        Part code: Rx100/24-dome model

[CO]   Coax control only, will not work with 20mA TP telemetry.

The library of domes supported is being enhanced continually. Please contact our technical support department if the dome required is not shown.

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