

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-sets 1-4.
- Will operate on 20mA current loop as standard for situations where coax control is impractical (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.
- Simple to install. No specialised knowledge required.
- Optional 24Vac 100VA on board supply.

Technical Specification

Power Requirements	9-12V ac/dc (Rx100/24 requires 230Vac)	
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 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 Length: 190mm Height: 130mm	Boxed weight 0.6Kg Temperature range -10°C to +40°C

Capable of driving the following domes

Dome Model	Speed	Presets	Alarms	Preset Patrols	Lens Control	Additional Features
Alltec Apollo	Variable	16	4 → Preset	2	Z/F	Camera Menu
Bischke webcam (RS232)	Variable	16	4 → Preset	2	Z/F	
Daiwa DMP16H3	Variable	16	4 → Preset	2	Z/F	
Dennard 2050	Variable	16	4 → Preset	2	Z/F/I	Dome Menu
Diamond SmartScan	Variable	16	4 → Preset	2	Z/F	Slow Patrol
Dynacolor	Variable	16	4 → Preset	2	Z/F	
Forward MIC 1300	Variable	16	4 → Preset	2	Z/F	
* JVC TK-C675/675B	Variable	16	4 → Preset	2	Z/F/I	Shutter/Backlight
Mark Mercer D250MPT & equiv.	Variable	16	4 → Preset	2	Z/F	
Merit Li-Lin PIH 717X	Variable	16	4 → Preset	2	Z/F	
Mitsubishi CCD400 (camera module)	-	-	-	-	Z/F	Backlight, Shutter, White Balance
Panasonic CSR400, CSR600, CSR650	Variable	16	4 → Preset	2	Z/F/I	Dome Menu
Panasonic CS850	Variable	16	4 → Preset	2	Z/F/I	Dome Menu
Pelco SD5 Series Spectra	Variable	16	4 → Preset	2	Z/F/I	Dome Menu
Philips AutoDome (RS232)	Variable	16	4 → Preset	2	Z/F/I	AutoPlay, AGC, Backlight
Sensormatic Speeddome (RS422)	Variable	7	4 → Preset	2	Z/F/I	Dome Menu
Star MD-100 Chugai/Computer: SMD-08	18°/Sec	16 @ 90°/Sec	4 → Preset	2	Z/F	Shutter
Star MD-800, MD-1200S, MD-1200H MD-2000, Chugai / Computer: SMD-08II, SMD-12, SMD-12II, SMD-20 Sanyo VCC-9200P	Variable	16	4 → Preset	2	Z/F/I	Remote camera reset
Sony EVI-31D webcam (RS232)	Variable	16	4 → Preset	2	Z/F	Backlight, White Balance
Ultrak KD6	Variable	16	4 → Preset	2	Z/F	Slow Patrol
VCL - TP protocol	Variable	16	4 → Preset	2	Z/F	Tour, Autoflip,
VICON Surveyor 2000	Variable	16	4 → Preset	2	Z/F/I	Dome Menu

* 24Vac dome model has been tested and works with the Rx100/24 interface.

Options 24Vac 100VA supply capable of powering dome and external housing heater. (Part code: Rx100/24-dome model)

* **CO = Coax control only**, call **BBV** for info

The library of domes supported is being enhanced continually. Please contact our technical support department with your specific requirements.
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