

RX400DC TELEMETRY RECEIVER

BBV



Application Notes

The RX400DC is designed to meet the operational requirements for high and variable speed control of pan and tilt mechanisms. Smooth and accurate proportional control of DC heads makes it an ideal receiver for applications such as urban surveillance, shopping centres and larger industrial sites. The RX400DC may be used with the TX400/DC, TX1000/DC and TX1500 range of telemetry transmitters with proportional control joysticks.

Features

- Simply set up from the control unit, 16 full scenes are programmable.
- Positioning control of up, down, zoom and focus are available for each scene
- No additional cabling required. Operates up to 500M of RG59 or up to 500M of CT125 standard coaxial cable
- Built in launch amplifier provides cable loss compensation for optimum picture quality
- Self tuning facility ensures reliable operation even when operating up to 500M of CT125 coax cable
- 230Vac operation with options for 24Vac or 110Vac.
- Will operate on 20mA current loop as standard for situations where coax control is impractical
- Supports local diagnostics and test facility
- Auto iris override provides manual control of the lens iris from the keyboard - a safety feature, to protect the imaging device returns the lens to automatic operation 15 seconds after the manual control button is released
- 2 patrol modes for varying operational requirements.
- 8 local alarm inputs and 1 alarm output minimises cabling requirements.
- 12Vdc available to power low voltage cameras.
- Serial port for direct connection to certain cameras (JVC TK-C1360 as standard).

RX 400DC



Technical Specification

Power requirements	230 volts 50Hz, options for 110Vac or 24Vac
Max load	5Amp at 230 volts
Receiver current draw	100VA max
Fuses	Auxiliary fuse (F2) slow blow (rating dependent on supply and output voltage)
Outputs	Variable pulse width modulated 24Vdc output for pan & tilt 24Vdc output for pan & tilt motor brakes Lens output for zoom, focus and auto iris override adjustable between 3-12Vdc 150mA max 240-volt outputs for wash, wipe and lights (1KW max) A single volt free , normally closed , alarm output contact Video output 1V p-p to 4 V p-p adjustable with H. F. lift Camera power supply 12Vdc 500mA and 230Vac
Facilities/Options	Unit auto tunes to the coaxial telemetry signal LED readout for continual system status Diagnostic test switch (SW8) activates each function for two seconds in turn Video launch amplifier with Gain and Lift controls Camera power outlet provided Colour coded outlets- live, neutral and earth, low voltage 24 volt option available from factory, plugs into J5 (pre wired)
Telemetry signals	Up-the-coax FSK telemetry designed to operate up to 250M of RG59 or 500M of CT125 coaxial cable or via 20mA current loop twisted pair (star wired).
Auto - iris output	Allows iris override feature when used with supported lens. Returns to original setting 15 seconds after key release. Level programmable from keypad.
Video input	1v p-p 75R terminated input via BNC socket
Video output	1v p-p to 4v p-p 75R impedance via BNC socket
Lens drive	Lens drive voltage is adjustable on board between 3 - 12Vdc. A 1 second slow, inching, feature is also adjustable on board between 0 & 100% speed. Each lens output carries a bi-colour LED indicating lens drive direction and speed.
Presets	Up to 16 full-scene preset can be stored within the receiver with 10 bit resolution. Each preset consisting of pan, tilt, zoom and focus position. (requires preset head & lens).
Boxed size	Width 190mm Length 380mm Height 130mm
Boxed weight	2.8Kg
Temperature range	- 10 c +40 c
Protection Rating	IP67

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