

RX300 TELEMETRY RECEIVER



Application Notes

The RX300 offers control of AC driven pan, tilt and zoom cameras, whether mounted externally or internally.

The compact dimensions of the PCB allows it to be fitted within a camera housing or dome as an alternative to the more usual weather-proof enclosure.

The auto iris override feature (with appropriate lenses) caters for difficult mixed lighting conditions and greatly increases the system's ability to resolve reflective surfaces such as car number plates.

Features

- No additional cabling required. Operates over 1km on standard CT125 coax cable (assuming ideal conditions)
- Built in launch amplifier provides cable loss compensation for optimum picture quality
- Self tuning facility ensures reliable operation even when operating over 1km of CT125 coax cable
- Various supply options, 24Vac/110Vac/230Vac (230Vac as standard)
- 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 automatically returns the lens to automatic operation 15 seconds after the manual control button is released
- Compact design allows various mounting options
- Auxiliary output available for additional functions i.e. Wash, Wipe or Autopan
- Compatible with all BBV telemetry transmitters
- Random pan function
- Optional 24Vac output for low voltage heads

RX 300



Technical Specification

Power requirements	230 volts 50Hz, options for 110Vac or 24Vac
Max load	5Amp at 230 volts
Receiver current draw	6VA max
Fuses	Auxiliary fuse (F2) slow blow (rating dependent on supply and output voltage)
Outputs	5 single pole change over relays (snubbed) 1. Left motor 2. Right motor 3. Up motor 4. Down motor 5. A single auxiliary output. Selectable as either Wash, Wipe, Lights (1Kw max) or Autopan (requires Autopan card in head) 6. Zoom drive 7. Focus drive 8. Iris override

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 output option available from factory, plugs into J5 (pre wired)

Telemetry signals

Up-the-coax FSK telemetry designed to operate over 1km of CT125 coax (assuming ideal conditions) or via twisted pair 20mA loop (1200baud, even parity, 8 data, 1 stop bit)

Auto - iris output

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

Boxed size

Width 190mm
Length 380mm
Height 130mm

PCB size

Width 108mm overall
Length 203mm without IEC inserted
Height 38mm above PCB

Boxed weight

2.4Kg

PCB weight

0.4Kg

Temperature range

- 10 c +40 c

Supply/Output Options

Part Code	Supply	Output
RX300	230Vac	230Vac
RX300/24	230Vac	24Vac
RX300/110/110	110Vac	110Vac
RX300/110/24	110Vac	24Vac
RX300/24/24	24Vac	24Vac

PCB version suffix: /PCB
Boxed version suffix: /WBX

BBV

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