



RX35X RS485 Telemetry Receiver



Application Notes

The RX35X is a serial telemetry receiver with ac pan and tilt outputs. It supports multiple protocols (please see technical specification for details) and it allows entry level serial control of ac pan/tilt and zoom/focus with an auxiliary output. The compact dimensions of the PCB allow it to be fitted within a camera housing 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 ability of the system to resolve reflective surfaces such as car number plates.

The unit is suitable for 230V mains operation. As a factory fitted option, the receiver can be supplied to operate from 24V ac or 110V ac. This option must be specified at the time of order.

Features

- Simply set up from the control unit
- Supports multiple telemetry protocols
- Built in launch amplifier provides cable loss compensation for optimum picture quality
- Various supply options, 24V ac/110V ac/230V ac (230V ac as standard)
- 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 wipe function
- Receiver compatible with multiple video transmission standards



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RX35X RS485 Telemetry Receiver



Technical specification

Power supply	230V 50Hz options for 110V ac or 24V ac		
Max load	5A at 230V		
Standby current	6VA		
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 wiper output		
	6. Zoom drive		
	7. Focus drive		
Features/options	8. Iris override		
	LED readout for continual system status		
	Diagnostic test switch (SW8) activates each function for 2 seconds in turn		
	Video launch amplifier with gain and lift controls		
	Camera power outlet provided		
Telemetry signals	Colour coded outlets – live, neutral and earth, low voltage		
	24V output option available from factory, plugs into J4 + J5 (pre wired)		
	BBV RS422	Sensormatic RS422 4800*	VCL 9600
	Pelco P 4800	Molynx 9600 E	Vicon 4800*
	Pelco P 9600	Vista 9600	Vicon 9600*
	Pelco D 2400	Vista 19200	Vicon 19200*
	Pelco D 9600		
Auto iris output	*NOTE this is a 2 wire receiver. This means it will not give responses back to the control system.		
	Returns to original setting 15 seconds after key release. Level programmable from keyboard		
Video input	1V p-p 75Ω terminated via BNC socket		
Video output	1V p-p to 4V p-p 75Ω impedance via BNC socket		
Temperature range	-10°C to 40°C		
Installation	Supplied in a molded polycarbonate box rated to IP67. The box has mounting holes allowing easy installation		
Dimensions	Boxed	PCB	
	Width	380mm	203mm
Depth	190mm	108mm	
Height	130mm	38mm	
Weight	2.4kg	0.4kg	

RX35X Product range

RX35X	RS485 Telemetry receiver 230V ac input 230V ac output
RX35X/PCB	RS485 Telemetry receiver 230V ac input 230V ac output PCB only
RX35X/24	RS485 Telemetry receiver 230V ac input 24V ac output
RX35X/24/24	RS485 Telemetry receiver 24V ac input 24V ac output
RX35X/24/24/PCB	RS485 Telemetry receiver 24V ac input 24V ac output PCB only
RX35X/110/110	RS485 Telemetry receiver 110V ac input 110V ac output
RX35X/110/110/PCB	RS485 Telemetry receiver 110V ac input 110V ac output PCB only
RX35X/110/24	RS485 Telemetry receiver 110V ac input 24V ac output



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