

DC Telemetry Receiver with Privacy Zones

ernitec

The BDR-580

The Ernitec BDR-580 is an advanced pre-position telemetry receiver with variable speed operation of pan/tilt functions. The BDR580 enables dc variable-speed, pre-set pan & tilt, camera heads to be optimally controlled to high precision in terms of dynamic speed range and positional accuracy.

The BDR-580 can be used with the Ernitec MPT-5P pan/tilt head and controlled by all the Ernitec keyboards, matrix systems, network systems and Digital Video Recorders.

To meet the increasing demand for 'privacy zones' in public area CCTV systems, Ernitec BDR580 incorporates dynamic electronic zone masking that enables the privacy of those in adjacent areas, not under surveillance, to be maintained. The size and shape of the zone masks are automatically adjusted to compensate for camera and zoom angle in order to maintain privacy, whilst maximising the view of the rest of the scene. The privacy zones can be quickly programmed via an easy-to-follow, on-screen menu. Not only can you create a zone as big or a small as you like but you can also choose the degree of opacity of that zone, varying it where necessary to maintain security.

User Benefits

Wide dynamic pan and tilt speed range gives high degree of positional controllability, even when using large zoom lenses.

On-screen, menu-driven, set up means that final configuration and fault diagnosis can be carried out from the control room, making installation and maintenance work quicker and more convenient.

Intelligent telemetry processing means that twisted-pair telemetry inputs work independently of which way round the pair is connected, minimising installation problems.

Receiver layout makes cabling straightforward, reducing installation time and improving reliability.



Features

- 99 pre-set positions
- Continuous rotation with single or dual wiper, pan pot feedback
- Programmable pre-set tour sequence
- 62 dynamic privacy zones
- Pan, tilt, drive and brakes 24Vdc
- Zoom, focus, iris 12Vdc
- Latched relays (24Vac or mains): Wipe, camera, lamps, auxiliary 1
- Momentary relays (24Vac or mains): Wash, auxiliary 2
- RS485 / type Ernitec telemetry
- Camera telemetry port
- Video gain / HF lift 0-6dB
- Video gain and HF programmable from control room allowing cabling distances and picture quality to be maximised.
- 12Vdc / 24Vac Camera power supply output.
- Mains power output socket for installer use.
- Self-test and configuration facilities.
- On-screen diagnostics including receiver address display.
- Option for alarm inputs to be wired directly into the receiver.
- Inputs and outputs protected against over-voltage and wiring faults.

Accessories

- Tamper alarm switch kit
- Alarm board kit -5 pairs of voltage-free contact inputs configurable as N/O or N/C
- Solid state relay kit, 230V, 15A suitable for switching IR lamps

Environment

- Weatherproofed to IP67

Mechanical Specifications

Type			
Material	Box – IP67 polycarbonate enclosure (including lid and fixings). Colour – Grey RAL 7035.	Mounting Details	Box – 4 x 6.5mm PCB – 5 x 3.4mm
Dimensions	Enclosure – 300mm x 300mm x 130mm (L x W x H)	Shock	30G Max (packed product)
Weight	Receiver (packed for shipment) – 6.5kg Receiver (unpacked) – 5kg PCB – 0.35kg		
Electrical Specification			
Power Requirements	PCB – 24V DC (8 Amps total max.) Boxed – 230-240 or, 110-120V AC 50/60Hz (5A)	Mains Cable	Recommended minimum size: 0.75mm ² (fused at 6A)
Pan and Tilt load	24V @ 2A (continuous 3A if < 1 minute)	Camera Supply (ext)	12V DC @ 500mA Fused 24V AC @ 2A Fused
3 wire Lens drive	12V @ 100mA	Fuse Ratings	Main Assembly : 8 Amps F1 = 8Amps, F3 = 8Amps, F5 = 5 Amps
Video	PAL	Video Gain HF Lift	0 – 6dB
Camera Power Supply Output	12V dc (500mA) or 24 Vac (2A).	Relays	250VAC @ 1A each (5A Total).
Operational Specification			
Operating Temperature	-20C to +40C (ambient temperature = +25C).	Relative Humidity	95% non-condensing
Weatherproof Standard	IP67, BS EN 60 529 (1992)	MTTR (mean time to repair)	30 Minutes
MTBF	30,000 hours at (T) ambient	Safety	BS EN 60950-1 (1992)
EMC	Emissions (conducted and radiated) to BS EN55022 Class B (1998).	EMC	Immunity to BS EN 50082-1.(1998)
Functional Specification			
Camera Head Control	Pan Left/right, tilt up/down = 24Vdc (+/- 12/0V) variable voltage drive to pan / tilt motor brake drive outputs, 2A per axis. 24Vdc (+/- 12/0V) pan / tilt brake drive outputs, 500mA per axis.	Latched Relay Functions	Wipe, Camera, Lamps 24Vac or mains voltage, 1A each. Auxiliary 1 NO/NC/COM general purpose contacts, 1A each.
Lens Control	Zoom in/out, Focus far/near, Iris close/open, Auto Iris manual override, Lens slow, 0-12Vdc (variable, full speed), 0-6Vdc (variable, lens slow). Three wire drive 100mA total.	Momentary Relay Functions	Wash 24Vac or mains voltage, 1A each. Auxiliary 2 NO/NC/COM general purpose contacts, 1A each.
Telemetry	RS485, ERNA Protocol	Camera Telemetry Port	RS232 or RS422 (JVC TK-C1360 and TK-C1460/1480).
Privacy Zones	On screen menu driven configuration of system settings, privacy zones and diagnostics Dynamic Privacy Zone Masking – 62 Zones	Video	Video Output with programmable gain / HF lift (0dB, 2dB, 4dB, 6dB).
Presets	99 preset positions. Positional feedback via potentiometer for Pan / Tilt / Zoom and Focus. Continuous rotation Pan feedback via single or dual wiper pots. 16 Position preset tour	Servicing	Self Test facility for all functions Power and Status indication LEDs Mains power service socket for use by installation / service engineers
Product Options			
Options	BDR580-A – Alarm board kit – 5 pairs of voltage free contact inputs configurable as NC or NO. BDR580-T – Tamper switch kit. BDR580 IR – Solid state relay kit 230V, 25A switching. Suitable for switching IR lamps.		



THE ONE TO WATCH

Denmark Head Office

Ernitec A/S
Hørkær 24
2730 Herlev
Denmark
Phone: +45 44 50 33 00
Fax: +45 44 50 33 33
ernitec@ernitec.dk
www.ernitec.com

French Branch Office

Ernitec France
N° 29 Parc Club du
Millenaire
1025 Rue Henri Becquerel
34036 Montpellier cedex 1
France
Phone: 04 67 15 10 15
Fax: 04 67 64 01 81
ernitec@ernitec.fr
www.ernitec.com

German Branch Office

Ernitec GmbH
Stormarnring 28
22145 Stapelfeld
Germany
Phone: 040 67 56 25 0
Fax: 040 67 56 25 25
ernitec@aol.com
www.ernitec.com

UK Branch Office

Ernitec UK
Columbia House
Columbia Drive
Worthing
West Sussex BN13 3HD
England
Phone: 01903 26 31 25
Fax: 01903 26 31 26
sally@ernitec.co.uk
www.ernitec.com

Middle East Office

Ernitec ME
Hamra - Makdesi Street
Younis Center - 5th floor
Office no. 503
P.O.Box: 113/5721
Beirut
Lebanon
Phone: +961 1 751 796
Fax: +961 1 751 795
malek_kabrit@ernitecme.com
www.ernitecme.com