

the future is now - be there with us™

Infra-Red & Radio
Remote Control
Crane Systems

COMMANDER™

Horizontal & Vertical
Collision Avoidance
Crane Systems

Sales Specification for Crane Remote Control System **€3™** Joy Stick Infra-Red Transmitter with **RD-I7™** Teachme™ Receiver Decoder



LEDLamp-II™
Crane Activity Indicators



TruTandem™
Crane Communicators



€3™ Infra-Red Joystick
with RF TalkBak™



€3™/RD-I7™ Infra-Red Joystick System



The **COMMANDER™** **Teachme™** dual channel (CAT 3) dual microprocessor controlled digital **Infra-Red** remote control system with **€3™** joy stick transmitter is a **FAST, POWERFUL & FLEXIBLE** product. Specially designed for the safe and cost effective operation of 3, 4 or 5 motion (or more) electric overhead cranes and other electrically powered equipment requiring multi speed or variable speed joy stick remote control from a ground based operator. The **Teachme™** remote control system uses a receiver decoder that is sized to suit the application and to minimise interface redundancy. One standard **RD-I7™** receiver decoder is expandable with additional relay interface PCB's, Analogue drivers for up to 4 motions and **TruTandem™** multiple crane control. The **RD-I7™** receiver decoder can be reprogrammed at any time (during the **Teachme™** access time window) with a replacement transmitter.

COMMANDER™ **€3™** joy stick transmitters have been designed for maximum flexibility for multiple configurations and feature advanced bi-directional 2 axis (X-Y) mechanisms with gated or free axis option, and with up to 5 stepped or step-less speed steps. Each Joy Stick lever has an inbuilt start up protection and dead man button for additional safety and spring return levers that are biased to the centre off position. The **€3™** joy stick transmitter can be supplied with combinations of auxiliary pushbuttons, rotary switches and supervisory key switch options available as standard feature options. Command legends included to suit the country of destination.

Specialist Designers & Manufacturers of Industrial **Infra-Red** & **Radio** Remote Control; **Infra-Red**, **Ultrasonic** & **Microwave** Crane Detection Systems for Horizontal & Vertical (multi-level) applications; Simplex & Duplex Data Communicators; High Integrity Control Systems, Eddy Current Brakes & Closed Loop Controllers for High Integrity Heavy Lift Cranes & other Material Handling Applications: **U.K. Designed & Manufactured.**

TP TechPoint™

Technical Details for E3™ Joy Stick Infra-Red Transmitter with RD-I7™ Teachme™ Receiver Decoder



RD-I7™ Teachme™ Receiver Decoder

Safety	Cat 3. Two FG MCR's & dual channel μ P's (microprocessors)
Enclosure	Sheet steel with hinged door
Size	338W x 250H x 97D (mm)
Finish	Powder coated in Black
Cable ports provided	Qty 1 @ 25mm, Qty 3 @ 20mm
AC voltage version	42V-230V AC (3 formats) (DC to order)
Environment	-10°C to +55°C IP54
Volt free relays	17 - 33 N.O. volt free contacts (N.C. & Latch available)
Analogue drivers	Qty 4 Analogue drivers for inverters with stepped or step-less interface
Power & Interface	Plug & socket I/O terminal connectors
Signal input	BNC co-axial from Infra-Red sensor network
MLC monitoring	Voltage or optional current monitoring (subject to FD/FVD's).
Diagnostics	Alphanumeric and LED's
Security codes	Teachme™ coding from the transmitter
Expandable with	Up to Qty 2, 8 relay PCB's/Analogue) / TruTandem™

IRRxE™ Infra-Red Receiving Sensors (with cable network)

Type	(extruded frame) 140° (under-crane mount) anodised Red
Operating range	80+ Metres (line of sight)
Environmental	-10°C to +55°C IP55
Connection	Twin BNC co-axial ports

E3™ Joy Stick Infra-Red Transmitter

Safety	CAT 3 EM Stop & dual channel μ P's (microprocessors)
Construction	Fabricated Aluminium (Hard Grade)
Dimensions	240W x 130H x 164D (mm)
Finish	Powder coated in Red
Weight	2 kg (with battery)
Battery Type	Rechargeable NiMH pack
Environmental	-10°C to +55°C IP55
IR Frequency	Fixed @ 940 nanometres
Primary Controls	Qty 2 bi-directional joy sticks
Speed Steps	Up to 5 or variable (step-less)
Auxiliary controls	Push buttons, rotary & key switches
Diagnostics	Battery warning & status LED's
Security Codes	Factory set
Operating Range	80+ Metres line of sight (approx.)
Charge Life	18 hours @ 100% duty

E3™ Transmitter Battery Chargers

Fast/trickle version	40 minutes approximately in fast mode/auto trickle
Trickle only version	Constant current trickle charge
Environmental	-10°C to +55°C IP54
Power	230V AC (115V AC option)



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