

RADIO REPEATER

VERSION 2



JME RADIO REPEATER V2

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME's new Radio Repeater Unit allows an extension of communication between JME's Remote Handset and the CR2 Pipeline Crawler while operating within a pipeline. The unit has two separate antennas – one for communicating with the Crawler (inside the pipe), and one for communicating with the Handset (outside the pipe). Internal circuitry forms a data-link between the two radio channels.

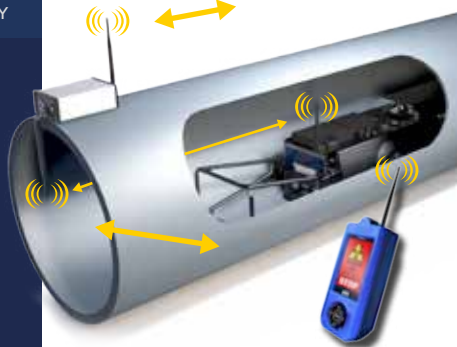
The handset can communicate directly with the Crawler while outside the pipe, or at the open-end of the pipe. The Repeater is used as a 'bridge' when there is no direct line-of-sight between the Handset and Crawler, or when operating the system in adverse weather conditions that can reduce the communication distance.

The typical operating range of the Repeater is approximately 2km outside the pipe, assuming there is a direct line-of-sight between the Handset and the Repeater. The maximum range inside the pipe is considerably greater, with no requirement for line-of-sight, the internal walls, even with curves and undulations, act as a waveguide. In situations where long-range operation is required, additional Repeaters can be installed to extend the operating distance.

THE NEW UPDATED DESIGN INCLUDES:

- Improved aesthetics
- Improved durability
- Suitable for all CR2 Crawler models
- Improved configurability
- Improved battery technology and capacity
- High rate charge
- Can be used as both Radio Extender and Repeater

JME Radio Repeater communicating with Crawler inside the pipeline.



JME Radio Repeater extending communication between Crawler and Remote Handset.



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TECHNICAL SPECIFICATIONS

Dimensions	165mm x 87mm x 48mm (Excluding antennas)
Weight	1.5 kg
Environmental	Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C
Battery Type	Lithium-ion - Watt Hours: 38.9
Battery Capacity	10,500mAh
Current Consumption	100 mA full operation
Typical Battery Life	60 hours between charges (average)
Charging Voltage	4.2V @ 2.7A
RF Operating Frequency	ISM 2.4GHz
Transmit Power Output	Up to +20 dBm
Receiver Sensitivity	-103 dBm
Operating Range	Typical: 1.2km (open air)
Radio Module	FCC Part 15.247 - FCC ID U90-RF220 Industry Canada (IC)
Agency Approvals	- Ref 7084A-RF220 CE certified - to EN300 328 V 1.8.1
FCC Notice	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interferences, and (2) this device must accept any interference received including interference that may cause undesired operation.

NEW CR2 REMOTE HANDSET CONTROLLER

JME's unique handset, with 4.3" touchscreen and multi-language support, allows external control and monitoring of the crawler whilst operating in the pipe.

This device allows the user to set up and configure the entire system, including X-ray tube/Gamma projector prior to placing it in the pipe. It is also capable of providing real time data from the system whilst in operation. It incorporates safety override and recovery features, making the new crawler systems more intuitive than ever.



SALES AND MANUFACTURING

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VIEW THE JME PIPELINE CRAWLER ACCESSORY RANGE at www.jme.co.uk

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