

# PXB:WIRELESS

## CONTROL PANEL + REMOTE HANDSET

PORTABLE X-RAY BETATRON



### JME WIRELESS BETATRON SYSTEM

PIPELINE CRAWLERS • PORTABLE X-RAY BETATRON • DIGITAL RADIOGRAPHY

JME's New wireless Betatron system is available in both 6 and 7.5MeV versions. These systems have been designed to function with both the conventional wired control panel and the innovative new wireless handset. Coupled with a JME Radio Repeater the user can now operate the system from a range of up to 1,7KM. This has improved safety and allows the Betatron to be used in a greater range of inspection applications.

#### JME BETATRON REMOTE HANDSET

The handset allows the user to wirelessly configure the system prior operation. It also provides the user with real time feedback on the status/operation of the system whilst in use. The operator can review and adjust parameters which are key to operation, including the output of the system, exposure time, and both real time and accumulated dose rates. With safety at the forefront of design, the user has continuous access to an emergency stop feature, and in the unlikely event communication is lost, the system will stop any exposure being carried out. The handset provides a simple and intuitive graphical interface along with a LED notification of the X-Ray status giving the user an easy reference point for the current system activity.

#### JME CONTROL PANEL

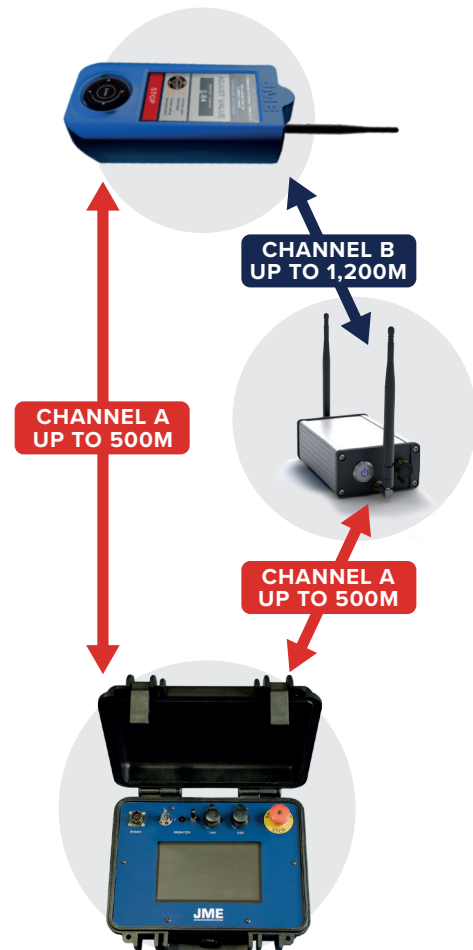
JME's New touchscreen control panel offers numerous improvements over the previous generation. It incorporates a data logging facility, allowing trained service personnel to interpret the historical parameters and usage of the unit. The built-in wireless connectivity allows connection to the handset, secured via 128 bit encryption, ensuring security of the system is maintained at all times. The user interface has been re-designed, making it more intuitive for the operator, there is also an increased amount of parameters which can be adjusted. Software updates are supplied by JME, these can be downloaded and installed via USB stick, ensuring the system remains futureproof.

#### JME RADIO REPEATER

JME's radio repeater increases the operating range of the radio link between the handset and control panel. Maintaining the secure 128 bit encryption, the radio repeater can increase the communication range by up to 1.2KM (To 1,7KM as standard). The Repeater can be attached to any ferromagnetic surface using the built-in magnet, the units are rechargeable and feature a long life lithium-ion battery.

#### DIRECT COMMUNICATION

– typical range up to 500m:



#### COMMUNICATION VIA REPEATER

– typical range up to 1,700m:

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# TECHNICAL SPECIFICATIONS

## JME BETATRON REMOTE CONTROL HANDSET

Dimensions	105mm x 195mm x 60mm
Weight	1 kg
Environmental	Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C
Display Area	4.3"
Display Contrast Ratio	500:1 (typical)
Display Brightness	300cd/m <sup>3</sup>
Touch Type	Projective Capacitive
Battery Type	Lithium-ion
Battery Capacity	10,500mAh, 38.9Wh
Current Consumption	500 mA full operation, 170mA sleep mode
Typical Battery Life	12 hours (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	500m direct to Control Panel, 1200m to Radio Repeater
Radio Module Agency Approvals	FCC Part 15.247 Industry Canada (IC) CE certified
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.

## JME CONTROL PANEL

Dimensions	305mm x 275mm x 150mm
Weight	4.2 kg

## JME RADIO REPEATER

Dimensions	165mm x 87mm x 48mm (Excluding antennas)
Weight	1.5 kg

## PXB:WIRELESS CONTROL PANEL + REMOTE HANDSET



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VIEW THE JME BETATRON RANGE at [www.jme.co.uk](http://www.jme.co.uk)

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