



Power Ranger Flyer V3-11.doc

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ePix Ltd. Power-Ranger

The Power-Ranger is a battery free pocket size UHF RFID power indicator.

What can it do:

- Detects which antenna is transmitting.
- Range at 2W ERP (3.28W EIRP) is 4 metres in free space.
- Shows approximate RADIATED POWER. ERP EIRP
- Tests polarisation of antennas. Linear, circular and cross polarised
- Test approximate beam angle of antennas.
- Pulses to show notify time and other transmit interruptions.
- Find antenna sweet spot for Programming and beam angle.
- Detects multiplexing.

Features Benefits.

- Rugged construction.
- No Battery
- Pocket size
- Simple to use
- Wide frequency range
- Works with all known European UHF RFID Transmitters.
- Detect cable Faults and bad connections.



Specification:

- Frequency range 850MHz to 920 MHz
- Tested with Dipole, linear, circular patch and cross polarised antennas
- Tested for use to EN302 208 at 865MHz to 868MHz
- Tested for use to EN300 220 at 869.5 MHz
- Tested with US 915 MHz readers
- Power reading range 100mW to 8W ERP
- Battery Life, Infinite. (runs on transmitter RF power)
- CE marked.
- The Power Ranger contains no banned substances.
- The Power Ranger does not transmit any RF signals.
- Height 82.0mm, Width 24mm, Depth 19mm



Basic instructions:

Hold the Power Ranger between your fingers and thumb. Move the Power-Ranger slowly away from the centre of the antenna until the LED fades out completely. Moving the Power-Ranger in small circles will improve the reading accuracy. Measure the distance between the antenna and Power ranger to estimate the TX power 2 meters = about 2W ERP (4W EIRP)

Polarisation can be detected by simply turning the Power-Ranger 90 Degrees.

Moving the Power-Ranger slowly from side to side until the light extinguishes; this will show the approximate radiation beam angle of the antenna.

Moving the Power Ranger from side to side very quickly; this will show the transmitter mark to space ratio (on-off ratio).

Safety Regulations state that you should not work within 25cm of a 2W ERP 4W EIRP transmission.

The Power Ranger can be returned to ePix Ltd for disposal. RoHs compliant.