



WRM2 ACTIVE DIVE ANTENNA AND REPEATER

Active dive antenna and repeater for teledosimetry data transmission

Mirion Technologies' WRM2 Diving System has long been the nuclear industry standard for remote monitoring of divers. Originally consisting of an iMUX, passive Dive Antenna, and Dive Repeater, the system allowed Radiation Protection personnel the ability to track dose rates at up to eight locations on a diver.

The revolutionary Active Dive Antenna has built on this functionality by providing its own WRM2 radio within the antenna paddle. In other words, the Active system doesn't just transfer the WRM2 signal through the cable, it provides a POWERED BROADCAST of the signal – easily overcoming any loss potential.

The Active Dive System is ideal for higher frequencies and longer cable lengths.

Additionally, because each diver's teledosimetry data is broadcast on their own "closed loop," RP personnel can monitor multiple divers simultaneously without experiencing interfering crosstalk between the divers.

FEATURES...

- Compatible with WRM2 Base Stations, Mesh Repeaters, etc.
- Eliminates Crosstalk Interference with multiple divers simultaneously in the water
- Utilizes waterproof (AMP-type) cable
- Antenna power is provided by the Dive Repeater (typically AC)
- Externally connected to diver – does not breach dry dive suit
- Available in 900 MHz or 2.4 GHz frequency
- Antenna is waterproof up to 100 feet depth



health physics

A Mirion Technologies Division

Featuring:



TECHNICAL SPECIFICATIONS:

Operating Characteristics

Transmit Power Output: 100 mW (900MHz), 10-63 mW (2.4GHz DM)
 Receiver Sensitivity: -110 dBm (900MHz) and -105 dBm (2.4GHz)
 Frequencies: 900 (910 - 917) MHz or 2.4GHz spread spectrum hopping
 Over the Air Data Stream: 19,200 BAUD (900MHz), 256k (2.4GHz DM)

FCC approved, IC Certified, 2.4GHz unit is CE marked.

Electrical Characteristics**Active Dive Antenna**

Power Requirements: AC Power

- Input: 15V DC, 500mA
- LED Status Lights

Active Dive Repeater

Power Requirements: AC Power

15V AC 1A coax center + pin

Physical Characteristics**Active Dive Antenna**

3 in x 3 in x .7 in (7.62 cm x 7.62 cm x 1.77 cm)

Active Dive Repeater

5.5 in x 9.5 in x 1.5 in (14 cm x 23.5 cm x 4 cm)

Operating Temperature: -10 to 50° C (14 to 122° F)

Relative Humidity: <99% Humidity (without condensation)

Mechanical Characteristics**Active Dive Antenna**

- 1.6 dB RF wire antenna
- Up to 300 ft (91.4 m) standard AMP Cable

Active Dive Repeater

- Top panel LED
- Slide Switches



MIRION Health Physics
TECHNOLOGIES Division

www.mirion-hp.com

128458C

Mirion Technologies (MGPI) Inc
5000 Highlands Parkway
Suite 150
Smyrna Georgia 30082
USA

T +1.770.432.2744
F +1.770.432.9179

Mirion Technologies (MGPI) SA
BP 1
F-13113 Lamanon
France

T +33 (0) 4 90 59 59 59
F +33 (0) 4 90 59 55 18

Mirion Technologies (RADOS) Oy
P.O. Box 506
FIN-20101 Turku
Finland

T +358 2 468 4600
F +358 2 468 4601

Mirion Technologies (RADOS) GmbH
Ruhrstrasse 49
DE-22761 Hamburg
Germany

T +49 (0) 40 851 93-0
F +49 (0)40 851 93 256

Mirion Technologies Shanghai Branch
Room 801, 78 Jiangchang
San Lu, Zhabei District
Shanghai 200436
China

T +86 21 6180 6920
F +86 21 6180 6924