



## Case Study:

# MARITIME BUREAU IN CHINA DEPLOYS FIBERinMOTION™ FOR RIVER SAFETY & TRAFFIC SUPERVISION

RADWIN's mobility solution transmits real-time video from patrol boats to Maritime Bureau's operations center

### Customer

North Bureau of Maritime Affairs in China.

### Customer Requirements

The North Bureau of Maritime Affairs in China manages 175 kilometers/109 miles of waterway in the Yangtze river, the longest river in Asia. The Maritime Bureau sought to implement a high-end wireless network that would enable it to achieve the following goals:

- » Water traffic safety supervision
- » Prevention of pollution
- » Maritime administrative law enforcement

### Challenges

To establish a reliable wireless network, multiple challenges had to be addressed including:

- » Connectivity over water
- » Transmission in non-line-of-sight conditions when large ships block the radio signals
- » Unpredictable currents
- » Long range coverage per base station



FiberinMotion mobility solution transmits HD video from patrol boats to Maritime Bureau's operations center

### RADWIN's Solution

RADWIN's FiberinMotion mobility solution was chosen for this project. FiberinMotion delivers high capacity and wide-range coverage, overcoming multiple challenges to connectivity.

- » A total of 14 RADWIN high capacity base stations were deployed along the length of 175 Km/109 miles Yangtze river waterway. Each base station covers a 15 Km/ 9 mile area and provides up to 10 Mbps throughput.
- » 22 patrol boats were fitted out with RADWIN's mobile units for vessels in motion.

## Customer Benefits

RADWIN's FiberinMotion solution allowed the Maritime Bureau to establish a highly reliable wireless network that enables:

- » Instantaneous transmission of real-time, HD video from the Maritime Bureau's patrol boats to its operations center.
- » Bureau duty officers can make quick, informed decisions on how to effectively handle situations such as suspicious vessels, water pollution and traffic jams.

*"This wireless transmission system will play a key role in future rescues and provide decision makers with the most effective onsite video and support."*

Associate Director of the IT Equipment Department,  
North Bureau of Maritime Affairs, China

## RADWIN's FiberinMotion™ Advantages

- » Highest net throughput in motion - 100+ Mbps
- » High-quality video transmission on the move
- » Solution simultaneously runs heavy video, data and voice applications
- » Long range connectivity - enables connecting boats and platforms over a wide area
- » Dedicated bandwidth per vessel
- » Rugged & robust - systems operate seamlessly in adverse sea conditions
- » Systems overcome attenuation affects that water has on RF



FiberinMotion base stations are deployed along the Yangtze waterway and patrol boats are fitted out with mobile units

## About RADWIN

RADWIN is a leading provider of sub-6 GHz wireless Point-to-Point and Point-to-Multipoint, Wireless Broadband-in-Motion and Small Cell NLOS Backhaul solutions. Deployed in over 150 countries, RADWIN's solutions serve the needs of service providers, mobile carriers, governments, enterprises, public and private security companies and transport organizations.

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