

Chronos GPS Solution assists Boat Race and London Marathon

Preserving integrity of the GPS Signal in challenging environments

Introduction

A provider of outside broadcast services was engaged to film the annual Oxford and Cambridge Boat Race. This involved employing a number of motorcycles each fitted with a special rearward facing seat for a cameraman to travel alongside the river Thames to record the event.



An uplink microwave antenna was mounted at the front of each bike and a GPS antenna positioned near the foot plate. The signal was transmitted to an aircraft via a microwave link, however, the strength of the transmitted microwave signal was swamping the GPS reception signal used for location purposes.

Solution

The provider required a solution to overcome the interference and contacted GNSS specialist solutions supplier Chronos Technology. To overcome the interference and provide sufficient filtering to protect the integrity of the GPS signal, Chronos recommended a low noise permanent mount GPS antenna which uses a narrow band filter to provide clear GPS signal reception while minimising loss-of-lock even in challenging conditions, including moving applications.

The solution was a complete success and the provider used the same system to film the London Marathon.



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