

**THE AC36 MEDIA SYSTEM  
A CROSS-DIVISIONAL  
DEVELOPMENT PROJECT**

**WHITE PAPER**

**FOCUS: Masthead multi-  
antenna system for the best  
possible data and video  
transmission**



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# THE AC36 MEDIA SYSTEM A CROSS-DIVISIONAL DEVELOPMENT PROJECT

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In March 2021, Auckland's Hauraki Gulf, New Zealand saw the 36<sup>th</sup> start of the America's Cup with the AC75 class sailing yachts<sup>1</sup>, whose novel hydrofoil system enabled speeds of up to 100km/h over water.

In addition to innovative camera solutions and audio systems, the new 360° concept from circle-o also includes the entire communications equipment, including antenna and high-frequency technology on the water, on land and in the air.

Due to the core competence of the latter task areas, the family member, PIDSO was commissioned with the development, production and integration of various systems by Riedel Communications. The 36<sup>th</sup> America's Cup featured several technical innovations that both the sailing teams and spectators could look forward to.



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<sup>1</sup> Refers to the boat length of 75 feet

The masthead antenna, developed by PIDSO specifically for the AC75, is located at a height of 27 meters on the ship's mast and consists of an aerodynamically shaped multi-antenna system that bundles several radio services simultaneously.

The antenna supports both polarization and spatial diversity, ...



Masthead antenna

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