

# VR0



## Ross Robotics VRzero

### INTRODUCING THE VRZERO, THE ANSWER TO DYNAMIC AR/VS ENVIRONMENTS.

The ability to interact with different sets, people, virtual elements, and graphics is quickly becoming the most engaging way to captivate an audience. To create such a compelling environment, every movement must be reliably and accurately tracked. Such data can be obtained in many different ways ranging from highly sophisticated to simplified and adaptable. In response to a simplified environment, there is a need for a fully manual solution designed to support tracking in Virtual Sets and Augmented reality.

The newest addition to the Ross virtual portfolio, the VRzero is an external interface module that reads tracking data from encoded fluid heads on all 4 axes (Pan, tilt, zoom and focus). The absolute encoders in the fluid head interface with powerful Ross electronics in the VRzero to provide a synced IP data stream into a 3D render engine such as XPression or Frontier.

The VRzero is being packaged with Cartoni™ encoded fluid heads, where it sits comfortably between the pan bars of the fluid head. The Cartoni-based packages include all necessary accessories, including a universal power supply, mounting bracket, and cables.

The ideal solution for dynamic AR/VS environments such as sports, variety shows, webcasts, small studios and on location broadcasts, the VRzero offers a truly flexible and unique option to precisely match and track real-world images



FEATURES	BENEFITS
ETHERNET CONTROL INTERFACE	Fully native IP based, easy to integrate in studio
DIGITAL LENS INTERFACE WITH AUTO-DETECTION OF CANON AND FUJINON LENSES	<ul style="list-style-type: none"> <li>- No external lens encoders required</li> <li>- Extremely precise tracking for VS/AR</li> <li>- Auto-detection simplifies lens connection</li> </ul>
VIDEO REFERENCE INPUT (GENLOCK), WITH TRI-LEVEL AND BLACKBURST SUPPORT	Ensures accurate synchronization for Virtual Studio Tracking Data
ABSOLUTE PAN/TILT ENCODERS	No need for homing, perfect for VS/AR applications

FEATURES	BENEFITS
RRB-VR0-ESEN-PKG	VRzero packaged with Cartoni eSensor encoded fluid head.
RRB-VR0-EMAG-PKG	VRzero packaged with Cartoni eMagnum encoded fluid head.

## VRzero Specifications

VRzero	
DIMENSIONS	198 x 90 x 49.8 mm (7.8 x 3.5 x 2.0 inches)
WEIGHT	0.6 kg (1.3 lbs)
TRACKING DATA OUTPUT PROTOCOL	Kuper
POWER	24 V DC brick 100-240 V AC

## Fluid Head Specifications

	eSensor	eMagnum
MAXIMUM PAYLOAD	35 kg (77 lbs)	95 kg (209 lbs)
WEIGHT	6.5 kg (14.3 lbs)	19 kg (42 lbs)
PAN RESOLUTION	> 1 Million counts/rev	
TILT RESOLUTION	> 1 Million counts/rev	
ENCODER TYPE	Absolute	

