MRMC & Dimension drive volumetric video capture innovation forward with the introduction of the Polymotion Stage Truck

In another world first, Mark Roberts Motion Control (MRMC - A Nikon Company) world leaders in camera robotics and automated broadcast solution and Dimension, pioneers in advanced digital humans and XR production have today unveiled the Polymotion Stage Truck – the pinnacle of mobile volumetric video capture (3D video) technology.

The Polymotion Stage Truck is the world's first 3-in-1 mobile volumetric studio on wheels. Developed to support the time-sensitive content creation needs of broadcasters, sports personalities and creative agencies, this truly mobile platform is capable of shooting volumetric video, taking 3D stills and full avatar creation, anywhere in the world.

The mobile volumetric technology last month picked up the coveted SVG Sports TV Award 2020 for the Outstanding Production Achievement (Innovation). In partnership with Sky Sports, Digital replicas of the world's top golfers such as Rory McIlroy, John Rahm and Dustin Johnson were created for the purpose of never seen before swing analysis at the 148th Open. The judges said: "Combining volumetric capture and replay to great effect under difficult conditions, the judges felt that it was one of those innovations that make you wonder 'how did they do that?' This is definitely the kind of innovation that moves the industry forward."

Speed and accuracy of deployment are key features for Polymotion Stage Truck. Innovative engineering solutions were required to accommodate a full-size capture studio within the Truck. State-of-the-art hydraulic systems expand the trailer, effectively tripling its footprint to present a green screen capture room of 46m^2 in size while automatic self-levelling hydraulics provide the stability that volumetric video capture demands.

The full studio can be set-up and ready to capture in a short period of time enabling same-day shooting at any location at any time.

Internally, the Polymotion Stage Truck has been designed with maximum flexibility and talent capture in mind. In addition to the studio space, two fully climate-controlled multi-purpose rooms offer broadcasters and agencies the option of providing easy access to hair, makeup and wardrobe facilities, green rooms or even additional photo studios, delivering the full studio experience on location. Entrances and exits at both ends of the trailer allow the talent to quickly enter/exit the studio, ideal for capturing large groups of individuals, such as sports teams or an entire cast. The trailer also features a full preprocessing data centre for quick footage review allowing creative decisions to be made on the spot.

During the global pandemic the Polymotion Stage Truck is operating under 'safe-shoot' conditions in accordance with Government and APA guidelines. Protocols include consistent adherence to the social distancing rules, strict use of PPE and regular temperature checks. Measures have been put into place to ensure the health and safety of all involved and also the general public, such as remote management of all pre-production and requesting all attendees drive themselves to a shoot.

Sara Gamble Head of Volumetric Solutions stated "We are extremely excited to be launching our Polymotion Stage Truck. With both the Stage Dome and Stage Truck available - we can now go to any location and capture talent, supporting the industry with delivering creative content on site."

Simon Windsor, Co-Founder and Joint Managing Director of Dimension, said "We're thrilled to partner with MRMC and Nikon to launch Polymotion Stage. These revolutionary mobile capture studios will enable new forms of virtual entertainment and content across sport,

music, fashion and more. From the Madonna holograms we created for the Billboard Music Awards to Sky's Britannia VR and the War of the Worlds immersive experience, volumetric and real-time technologies are raising the bar for entertainment with new possibilities emerging every day."

The Polymotion Stage Truck, alongside the Polymotion Stage Dome, will change how volumetric video is captured across the entertainment and sports industries and deliver new opportunities for providing unique and immersive content.

For more information about the availability of the truck contact sara.gamble@mrmoco.com

Watch the Polymotion Stage Truck in action **here**
Image library here

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About MRMC
Mark Roberts Motion Control (MRMC) is a Nikon Group company. MRMC is on the front line of imaging innovation and is the leading manufacturer of cutting-edge solutions for motion control, automation, broadcast robotics and remote image capture. They design, manufacture and assemble robotic rigs, pan-tilt and multi-axis robotic heads and tracking technologies. MRMC's robotic and software solutions are used all over the world by film studios, sports broadcasters, football leagues and more. Class-leading technical and engineering achievements have earned MRMC several industry awards in the past 50 years. For more information, visit www.mrmoco.com. In 2016, MRMC was acquired by Nikon Corporation.

About Nikon
Nikon Inc. is a world leader in digital imaging, precision optics and photo and video capture and technologies; globally recognized for setting new standards in product design and performance for an award-winning array of equipment that enables visual storytelling and content creation. Nikon Inc. distributes consumer and professional digital SLR cameras, NIKKOR optics. For more information, visit www.nikon.com

About Dimension
Dimension provides world-leading volumetric production studios that are elevating and shaping the future of virtual entertainment and content. Based in London and Newcastle, and able to bring XR, digital humans, and virtual production solutions directly to brands and studios around the world, Dimension is the first Microsoft Mixed Reality Capture Studio partner. *For more information visit: www.dimensionstudio.co*