

IBC2011 [Vinten Radamec](#) a Vitec Group brand and world leader in robotic camera support systems, has revealed its next generation of robotic controlled device, incorporating Intelligent Control Engineering (ICE), at this year's IBC2011. The innovative company has integrated the new hardware and software platform into its latest pan and tilt head, the Fusion FHR-35, to deliver the highest performance head on the market.

This major step forward in camera robotics enables operators to achieve an unprecedented level of control and accuracy in a highly compact form factor. The Fusion FHR-35 pan and tilt head, the first Vinten Radamec product to incorporate ICE, is suitable for a broad range of applications from legislatures to studios.

Every aspect of the Fusion FHR-35 head has been designed around Vinten Radamec's unique ICE technology. Designed for payloads up to 16kg, the Fusion FHR-35 is versatile and uses Ethernet to connect to the HDVRC studio robotics controller or legislative system controller. The ICE internal motors and processing allow it to give both the fastest and the slowest smooth movement, as well as the widest pan and tilt range, with accuracy better than 0.01.

In addition to moving under robotic control, the FHR-35 also provides precise position reporting back to the controller, together with zoom and focus data from a digital lens. The internal digital lens drive provides control for the majority of full servo lenses. These unrivalled capabilities are provided by ICE inside the head: there are no external interface boxes or power supplies, making it the most compact and aesthetically pleasing head available to today's camera operators.

"ICE defines the state of the art technology present in every aspect of the new Fusion FHR-35 – from the electronics and encoders, to all of the mechanics incorporated into the pan and tilt head. It is a completely new concept in camera robotics," said Karen Walker, robotics commercial manager for Vinten Radamec.

"Both the design and the technology set the FHR-35 apart from

anything else on the market. The built in control intelligence means it responds incredibly quickly and it can be remote configured for very fast set up. The performance matches its sleek design, as the FHR-35 integrates this complex technology into the most compact head in its range.”

Alongside the demonstration of the Fusion FHR-35, Vinten Radamec is showcasing the integration of its heads and pedestals into virtual reality environments. A full 3D environment has been created, using a camera on a Vinten Quattro SE pedestal and Vector 430i encoded pan and tilt head, connected to Orad’s rendering system and combining live and virtual reality worlds in real time. Other demonstrations feature a complete robotic pedestal, the FP-188 from Vinten Radamec robotics solution, under the control of the studio HDVRC control system.