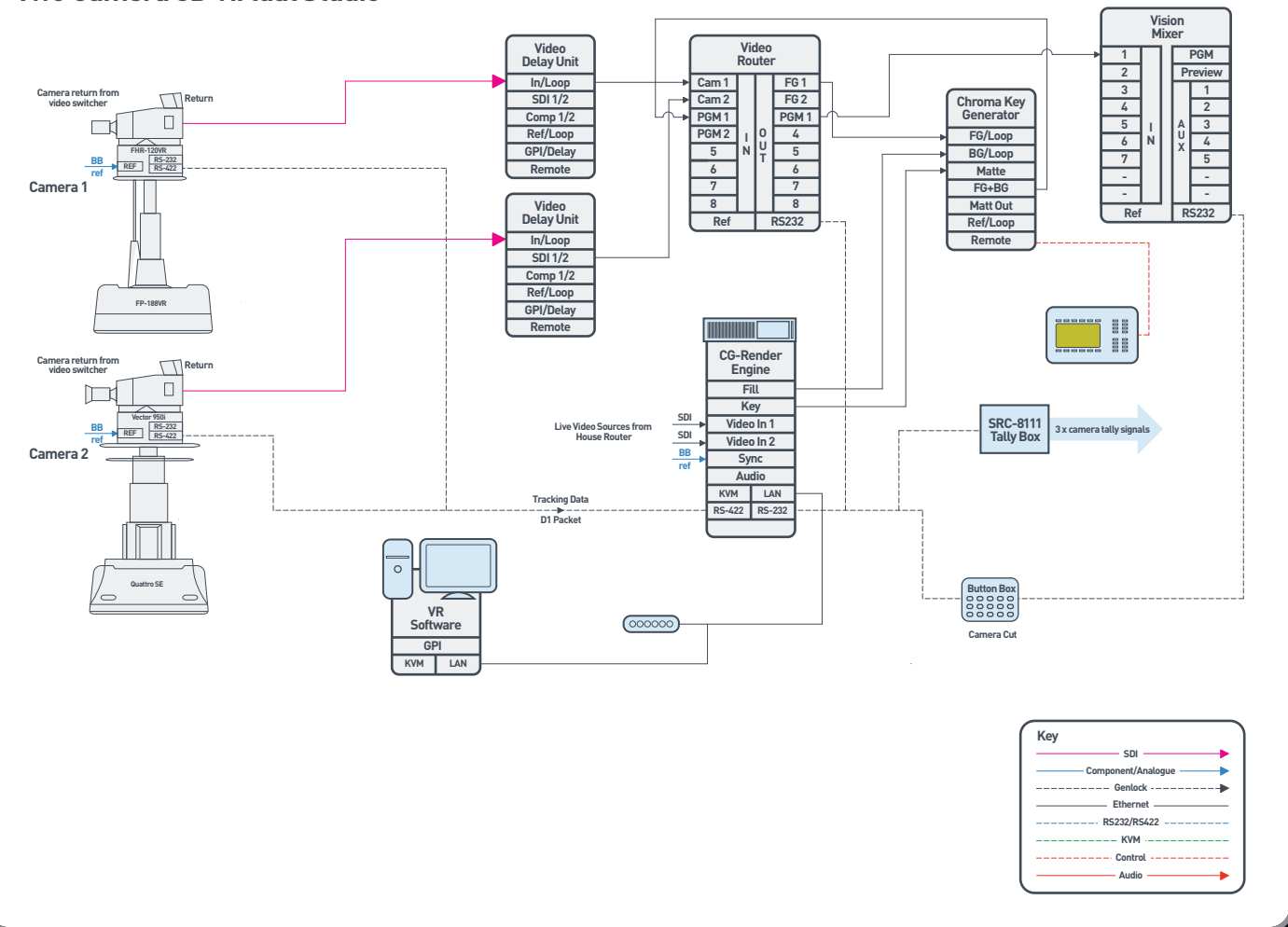


Virtual Studio System Overview

Two Camera 3D Virtual Studio



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Quality systems approved to ISO 9001:2000

Certificate No: Q09508

V2/10

Virtual Tracking 2010 - 2011

Vinten Radamec Virtual Tracking Product Range

Today's program makers push technical and creative boundaries in an effort to reduce costs and offer a more attractive content to their viewers. One of the key tools at the disposal of the modern television producer is computer generated graphical elements; these vary from simple foreground stationary graphics to immersive 3D virtual environments.

In order for the virtual graphics to relate and correspond to the real objects in the video, any camera movement needs to be tracked. This tracking data must be communicated to the computer rendering the graphic so the graphic is rendered from the correct viewpoint.

Tracking can be broken down into two basic types, 2D and 3D and Vinten Radamec offers a wide range of products tailored to each application:

2D Tracking Solutions

These products are capable of reporting pan and tilt, and lens zoom and focus positions. In simple 2D tracking applications these devices are mounted on a static tripod or post, however the devices can also be mounted on moveable supports including pedestals to provide 3D tracking solutions.



3D Tracking Solutions

These devices are capable of reporting a floor position in relation to a fixed point (a home or target) in X and Y coordinates, and height from the floor to top platform (Z axis). Devices can be paired with a 2D tracking product to give full freedom to move the camera within the virtual studio.

Vinten Radamec 2D and 3D tracking products can be found in studio and OB environments worldwide where they offer excellent physical and tracking performance.

Product	Pan Counts / 360°	Tilt Counts / 360°	Height Resolution	Floor Accuracy	Lens Feedback	Manual	Robotic	
Vision 250E Encoded Manual Head	641,280	638,030	-	-	Direct/Bolt on	✓		2D Tracking
Vector 430i Encoded Manual Head	1,480,000*	1,480,000*	-	-	Direct/Bolt on	✓		
Vector 750i Encoded Manual Head	1,800,000*	1,600,000*	-	-	Direct/Bolt on	✓		
Vector 950i Encoded Manual Head	1,800,000*	1,800,000*	-	-	Direct/Bolt on	✓		
Fusion FHR-120VR Robotic only Head	1,800,000*	1,800,000*	-	-	Direct/Bolt on		✓	
Fusion FH-100VR Robotic and Manual Head	819,200*	819,200*	-	-	Direct/Bolt on	✓	✓	
Autocam HS-102 IT Pan and Tilt Head	1,040,384	1,040,384	-	-	Direct/Bolt on		✓	
Autocam HS-105 IT Pan and Tilt Head	479,625	479,625	-	-	Direct/Bolt on		✓	
Autocam HS-2010 IT Pan and Tilt Head	2,097,152	2,097,152	-	-	Direct/Bolt on	✓	✓	
Vinten Radamec Quattro SE Encoded Manual Pedestal			1mm	< +/-70mm & +/- 1 degree ◊		✓		
Fusion FP-188VR Robotic and Manual Pedestal			1mm	< +/-100mm & +/- 1 degree ◊			✓	
Free-D 3D Camera Tracking System	Equivalent >36,000	Equivalent >36,000	1mm	< 10mm	Bolt on encoders	✓	✓	

* These heads feature encoders which can be simply upgraded to higher counts if necessary ◊ After 4 circuits of 6m x 4m triangle
Colour shading indicates compatibility. All heads supplied with four bolt fixing for compatibility with manual products.