Ncam Live real-time camera tracking enables live virtual broadcast graphics in a studio or on location, even on handheld and Steadicam. The Ncam Live camera tracking system features a multi-sensor bar that is unobtrusively mounted on the camera and provides real-time data to the Ncam tracking server. Ncam Live provides complete position and rotation information, plus focal length and focus, via industry-standard protocols compatible with any VR/AR graphics system.

Fast
- Instant real-time tracking without the need for time-consuming system calibration, learning of environment or surveys.
- User friendly interface enables super quick automated origin and axis alignment, or speedy and interactive manual placement via its image-based modelling module.
- Highly mobile ‘plug and play’ system relocates rapidly both indoors and outdoors.

Creative
- Immerses dynamic, movie-style graphics in to any live action
- Ncam Live enables the camera and the talent to move around the graphics
- Freedom of movement highlights 3D graphics and provides new, innovative creative shots

Flexible
- Track any kind of camera, anywhere
- Works in studio and on location, green screen or natural settings
- Works with all camera rigs including handheld, Steadicam, Spidercam and cranes
- Ncam Live combines patent-pending multi-sensor technology instead of relying on simple optical-only solutions, making it robust in mission critical situations.
- Scalable product option allows future upgrade from PTZ to the full 7D model

Compatible
- Ncam supports all popular industry-standard broadcast graphics engines, either via the Free-D protocol or Ncam’s SDK
- The revolutionary new SDK v2.0 enables a rich real-time data stream including timecode, optical parameters, distortion maps and parametric camera models.
- All data is sent down a single Cat6 Gigabit Ethernet cable, which can easily be converted into fibre via standard media converters if necessary.
- If you have other encoded products in the environment then you can add additional Ncam Live channels.

“We’ve had the great fortune to work with Ncam for almost a year now. In that time we’ve been able to do things with virtual graphics that we’ve never been able to do before. They have an incredible team that continues to innovate. We look forward to pushing their technology even further in the years to come.”

Zac Fields
Vice President Graphics & Technology
FOX Sports Media Group
The Ncam Live system comprises of a Camera Bar, Connection Box and Server and is offered as two versions:

**NCAM LIVE PTZ**  
Pan, tilt, zoom (focus, roll) only [license upgradeable to 7D]

**NCAM LIVE 7D**  
Pan, tilt, zoom, roll, xyz – full axis flexibility

## NCAM SERVER

**Configuration:**  
One Server per broadcast camera

**Device:**  
Silent-running bespoke workstation

**Operating system:**  
Bespoke Linux

**Application software:**  
Ncam Reality

**Location:**  
Studio – rack-mounted – controlled over KVM  
Mobile – OB Truck

## NCAM CAMERA BAR

**Configuration:**  
Multi-sensor tracking technology; 1 bar per camera

**Mounting:**  
Fixed to front camera rods or custom mount

**Operation:**  
Tether cable to Ncam Server workstation:  
Copper (Ethernet) – up to 100m or  
Fibre – 2km+

Ncam Live is exclusively distributed by Vitec Videocom

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