




ncam[®]

AUGMENTED REALITY

Augmented reality technology for the media and entertainment industries.

Ncam's second generation camera tracking software offers a massive leap forwards in camera tracking capabilities. Ncam Reality generation two software offers unrivalled accuracy, robustness and flexibility combined with autonomous operator free functionality.

 <p>ncam[®] REALITY Generation Two</p>	<p>Automatic Fully automatic & autonomous camera tracking functionality allowing technician free operation.</p>	<p>New Core Complete new generation two camera tracking core offers unrivalled accuracy, robustness and speed of setup.</p>	<p>Sensor Fusion State-of-the-art sensor fusion techniques integrate 14 real-time sensors offering unique stability.</p>
<p>No Limits Track any environment, on any camera, with complete freedom of movement, including handheld & cable camera systems.</p>	<p>Complete Flexibility Unlimited environment size, whether studio or location, indoors or outdoors.</p>	<p>Light Change Resilient Ultra-resistant to dynamic changes in lighting conditions. The system automatically adjusts to lighting changes, indoors or outdoors.</p>	<p>Depth Keying Ncam Reality Event and FX offer real-time depth keying in combination with chroma keying.</p>

Tracking Products Feature Set	ncam REALITY			
	PTZ	STUDIO	EVENT	FX
Lens calibration	●	●	●	●
SDK	●	●	●	●
Fixed Tripod (Pan, Tilt, Zoom)	●	●	●	●
Studio (Indoor) Tracking	●	●	●	●
6 DOF (Degrees of freedom) Tracking	○	●	●	●
Indoor & Outdoor Tracking	●	○	●	●
Depth Keying	○	○	●	●
Data Capture	○	○	○	●
Compositing Engine	○	○	○	●
Ncam Motion Builder Plugin	○	○	○	●
Ncam Unreal Plugin	Available across all products as annual subscription			
Ncam Unity Plugin				



Main Camera Information

Supported Cameras • Digital broadcast cameras with HD SDI monitoring.

Supported Lenses • Prime lenses.
• Zoom lenses: Parfocal (cine style) or varifocal (ENG style).

Lens Metadata • Canon/Fujinon lens data from virtual port using Ncam smart cable.
• Direct encoding of focus, iris & zoom from proprietary Ncam encoders.
• Preston, Cmotion and LDS lens data support.

Lens calibration • Ncam proprietary: Measured & calibrated off-line during install or prep.
• Stored & selectable from database and exported to graphics engine.
• Real-time lens data support via SDK.

Ncam line-up • < 1 minute on lens change.

Camera configurations • Handheld, Steadicam, tripod, dolly, pedestal, jib/crane.

Composite preview feed to camera • 1920/1080 HD SDI (wired or wireless)
• Frame rate based on camera monitor output.
• Interlaced, Progressive or PsF.
• Displayed on electronic viewfinder or monitor.

NCAM® SERVER

Configuration • One server per broadcast camera.

Device • Silent running bespoke workstation.
• Server interface, monitor, keyboard, mouse.

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:
Copper (ethernet) up to 100m
Fibre via separate fibre or using camera fibre trunk.

