



FRESH

VIRTUAL SET
& AUGMENTED GRAPHICS



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UNREAL VIRTUAL SET
& AUGMENTED GRAPHICS

BEST IN CLASS WORKFLOW TOOLS FOR UNREAL VSAR

NO VIDEO OR AUDIO DELAYS WHEN PAIRED WITH OUR TOP-NOTCH ROBOTICS CAMERA SUPPORT

FRESH is ChyronHego's virtual studio and augmented reality graphics playout solution, powered by Epic Games' Unreal4 gaming engine. Ideal for live production, FRESH offers no **video or audio delays** when paired with ChyronHego's top-notch robotics camera support for virtual set & augmented reality graphics production.

FRESH combines the superior graphics capabilities of the Unreal4 gaming engine with ChyronHego's scalable and intuitive workflow tools to enable the creation of the most complex graphical elements accurately, and with unparalleled photorealism. FRESH leverages Epic Games' expansive global network of designers and developers for the Unreal Engine for speed-to-air. Our solution gives designers incredible levels of creative freedom paired with hyper-realistic rendering quality thanks to a unique native 3D text and primitives library available from the Unreal editor.

Adaptable to broadcaster production needs, FRESH can be used to play out graphics for simple augmented reality, stunning video walls projections, or immersive virtual sets. Optimized for designer workflows, FRESH's intuitive control interface allows designers to move, rotate, scale, objects on-air without needing to go back to the Unreal editor.

ONE PLATFORM – MULTIPLE SOLUTIONS

FRESH was designed with the idea of providing a single solution for multiple virtual studio and augmented reality graphics production applications. Each of its applications listed are adaptable to the unique requirements of content creators of all sizes.



VIRTUAL WINDOW AND SET EXTENSIONS

Feed your video walls with stunning, high-resolution 3D Unreal environments. Using camera tracking data, FRESH transforms your video wall into a virtual window with virtual objects popping out right in your studio. Combining virtual windows with set extension and responsive augmented reality graphics, FRESH empowers the creation of rich and flexible studio presentations without the need of a green screen.



IN-STUDIO AUGMENTED GRAPHICS

Capture audience attention and tell more visually enhanced stories with photorealistic in-studio augmented reality graphics. Enrich sports, elections, news or weather programs coverage using data-driven augmented reality graphics developed in FRESH.



VIRTUAL SET

Create larger-than-life virtual studio set environments using full green screen studio. Via tight synchronization to camera tracking, FRESH allows producers to create photorealistic virtual sets in much smaller physical studios. With Unreal Engine's captivating virtual studio and responsive 3D graphic elements, producers are not limited by the dimensions of the physical studio.



KEY FEATURES



ONE PLATFORM, MULTIPLE SOLUTIONS

Flexible for a number of broadcast production applications, FRESH helps create live studio content for virtual sets, set extensions, augmented reality graphics, video wall virtual windows and more.



NATIVE 3D PRIMITIVES LIBRARY:

Adapted for broadcast design needs, FRESH offers a native design toolkit inside Unreal to empower the creation of stunning 3D elements quickly and easily. The native primitive library includes 3D text and arrows, cubes, planes, triangles, tori and more.



WORKFLOW EFFICIENCY

Fully integrated with CAMIO®, ChyronHego's MOS-driven, template-based graphic asset management solution, FRESH allows producers and journalists to browse, fulfill and preview pre-defined templates for virtual sets or augmented reality graphics directly from the familiar newsroom system.



BEST-OF-BREED CAMERA TRACKING SUPPORT:

FRESH uniquely offers no video or audio delays for live production when paired with ChyronHego's robotics camera tracking for virtual production.

Adapted for the unique requirements of broadcasters, FRESH supports to all major camera tracking devices: ChyronHego Robotics, Mo-SyS, NCAM, Vinten, Ross Video, Shotoku, Stype and Technocrane.



UNREAL BASED SYSTEM:

FRESH can work in conjunction with a series of plug-ins native to Epic Games' Unreal Engine 4, ensuring that designers can always take advantage of the latest UE4 feature releases.

FORMAT	SDI/HD 1080i 50/59.94/60 720p 50/59/60
NUMBER OF INPUTS/OUTPUTS	Up to 4 HD-SDI connections (1 F+K or 2 F inputs and 1 F+K output)
GENLOCK	Analog
CAMERA TRACKING SUPPORT	ChyronHego Robotics, Mo-SyS, Vinten, Ross Video, Shotoku, Stype, Ncam
NRCS	MOS Connection to Dalet, iNEWS, ENPS, Octopus, OpenMedia and more available via CAMIO integration
PANELS CONTROL	Via ChyronHego's Live Assist Panels
OPERATING SYSTEM	Windows 10 Enterprise

SERVICES

ChyronHego is known for its end-to-end customer service. We partner with our customers from the initial project design, to project management, training, on-air launch support and post-launch follow-up.

Project Management and Commissioning are part of the turn-key services that we offer. This ensures your investment is properly installed from Day One by a certified ChyronHego representative.

We offer Design and Operation training, either in your facility or via our on-line web portal. Our expert trainers can teach your staff the most efficient way to create and deliver stunning content for your productions.

Finally, all ChyronHego products come with a One (1) year factory-backed warranty (parts, labor & software upgrades). Extended Warranties on all purchases can be added at any time for an annual fee. Please contact our sales professionals.

ABOUT CHYRONHEGO

ChyronHego is ushering in the next generation of storytelling in the digital age. Founded in 1966 as Chyron, the company pioneered broadcast titling and graphics systems. With a strong foundation built on over 50 years of innovation and efficiency, the name Chyron is synonymous with broadcast graphics. ChyronHego continues that legacy as a global leader focused on customer-centric broadcast solutions. Today, the company offers production professionals the industry's most comprehensive software portfolio for designing, sharing, and playing live graphics to air with ease. ChyronHego products are increasingly deployed to empower OTA & OTT workflows and deliver richer, more immersive experiences for audiences and sports fans in the arena, at home, or on the go.

CONTACT SALES

NORTH AMERICA

+1.631.845.2000 | noram@chyronhego.com

EMEA

+46 8 534 88 300 | emea@chyronhego.com

LATIN AMERICA

+1.305.972.1396

ASIA/PACIFIC

+65.64071330 | asia@chyronhego.com

