



HGXR

ENTERPRISE TECHNOLOGY

SIMULATION | VISUALIZATION | TRAINING

HGXR ENTERPRISE TECHNOLOGY

**Leap beyond and
achieve maximum
performance.**





XR SOLUTIONS

Experience the Future. HGXR Extended Reality Solutions.

Future-proof Extended Reality (XR) solutions adapted to your needs. We create end-to-end enterprise solutions that fuse our exceptional expertise in the field with high-end immersive technologies and our proprietary software solutions. Our products feature a wide specialized range of applications, which are efficient, effective, and multifunctional in use.

Ready for the metaverse. Experience XR simulation, visualization, and training - anytime and anywhere.

XR Solutions

Cost Effective & Flexible

Save on setup time, travel expenses, teams of live extras, and wasted resources. The ability to realistically simulate, visualize and train anywhere, anything, and at any time, is truly a game changer.

Realistic & Safe

XR can re-create hyper-realistic and high-risk situations but in completely safe virtual environments. This eliminates the risk of injury to team members and damage to costly equipment.

Supercharged Training

XR enables a supercharged “learning by doing” process and many studies have shown dramatically increased results. VR learners are 4x more focused, train 4x faster, and are 275% more confident in applying new skills after training.

EFFICIENT EFFECTIVE FLEXIBLE



**Virtual Reality is safe,
flexible, and accessible
at any time.**

Visualize anything imaginable and become fully immersed in a simulation of real-world situations or high-risk scenarios to train, sharpen skills, and boost retention, to prepare your team for the challenge of the completely unexpected.

Our Experience, Your Benefit

Extensive expertise in one team. We unite experts in the fields of AAA game software development, photo realistic visual effects production, engineering, and military training, with a focus on XR hardware and software.

HGXR is a division of HOLOGATE, a global media company and market leader in turnkey XR solutions for entertainment and enterprise head quartered in Munich, Germany.

With the world's largest extended reality network in the entertainment sector and trusted by millions, our brand line-up sets the global standard for immersive XR solutions.

Hundreds of projects, applications, and training simulations have already been successfully developed in the company's headquarters. Our clients and partners include Audi, Sony, the Fraunhofer Institute, and the German Army.

EXPERTISE EXPERIENCE TRUST



TECHNOLOGY

HGXR Fuses Cutting-Edge Hardware with Intuitive Software.

Our end-to-end solutions guarantee full flexibility in terms of space and usability while offering the latest XR technology, high-end graphics and an extensive app library driven by your needs.

With HGXR systems, any real situation can be visualized, and simulated in the virtual space to be used for efficient and effective training.

Technology

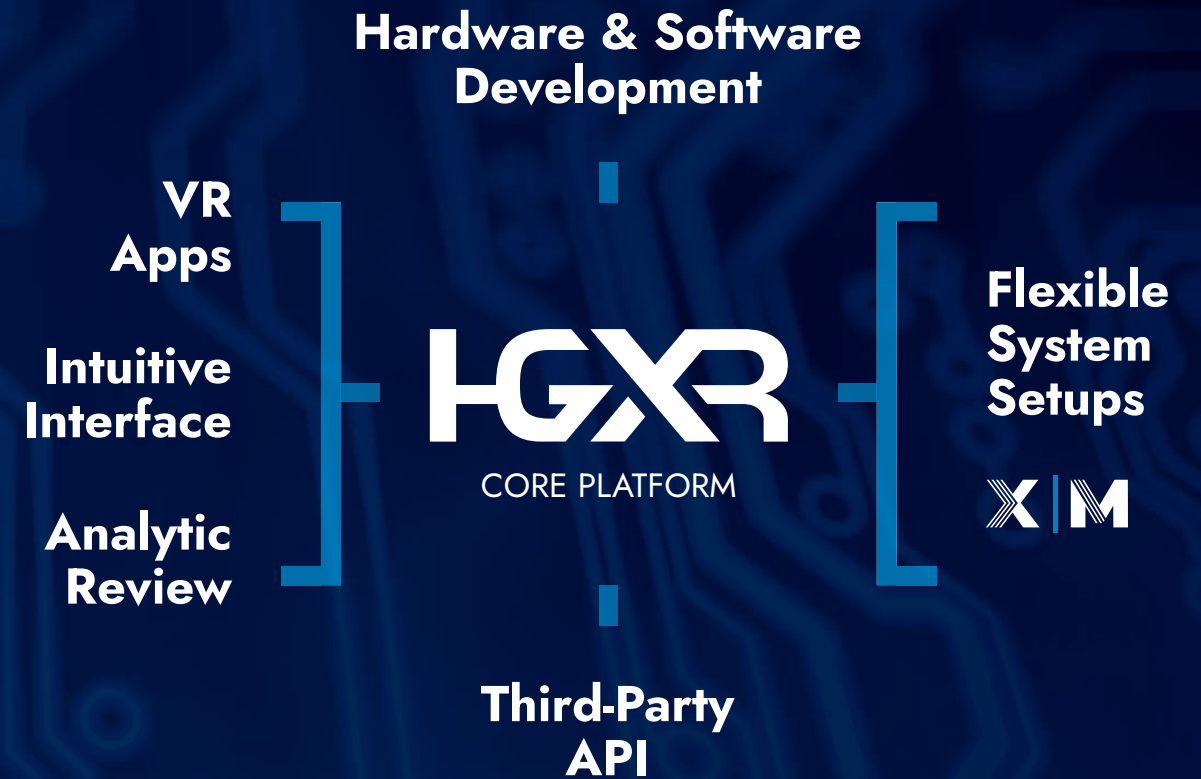


Modular Platform for Unique Flexibility.

Our platform is based on a modular design structure both in hardware and software, making it easy to integrate future technologies and enable a wide range of use cases.

Utilize our evolving app library, implement third-party apps, or create customized applications with our team. Our intuitive interface makes for effortless system operation & management by a single attendant. Reproduce any physical object in virtual reality and seamlessly integrate authentic equipment for a realistic feel and operation.

A truly multifunctional platform.





Revolutionary High-End VR Installation

The HGXR X system revolutionizes the virtual experience. Featuring our proprietary hyper-reality technology that blends state-of-the-art full-body tracking technology, haptic feedback, and physical effects inside a high-fidelity immersive experience. Precise full-body tracking technology allows users to move, communicate and interact realistically in virtual reality.

Haptic vest, rumble feedback, and 4D Effects including wind, heat, and scent enhance the immersion dramatically. Hyper-real graphics and the integration of authentic equipment further intensifies training and simulations.

XR Technology to the fullest.

Scalable from 36 to 400m² / 387 to 4300 sq. ft.

VR Free Roam



HGXR



The Ultimate Flexible VR Setup.

The HGXR M system is the mobile multi-use solution to-go. Compact, easy to set up, and full of possibilities. Turn any room into a virtual multi-use free-roam arena within minutes and train, visualize and simulate everything imaginable.

This setup is designed to move and fits everywhere you go. The compact system structure and the dynamic VR room size enable ultra-flexible use cases without any room restrictions.

Combine multiple systems to increase number of users.

Our M Setup is a compact mobile VR arena.

Dynamic VR room size

VR Free Roam

Standard, Custom or Third Party Applications.

Our evolving app library is ready to use at any time and at the touch of a button. Switch quickly and easily between multiple applications.

From close quarter battle to anti-tank / anti-air and law enforcement to first-aid scenarios, we already developed an extensive library of use cases.

Hyper-real environments and scenarios with next-level audio-visual fidelity lead to a deep immersion in the virtual action. Our virtual actors are driven by our own proprietary AI solution that engages with users in a highly realistic way and allows operators to dictate commands for real-time interaction.

Individualize our library to your needs. Customize our applications, implement new scenarios or third-party apps.

The perfect multi-use VR Platform.

HGXR



CQB

Close Quarter Battle

Assault trainer for high-risk close quarter combat.
Train room clearing tactics and raids in any situation.



AA
AT

Anti-Air / Anti-Tank

Train and instruct the tactical use on a broad variation of integrable Anti-Air and Anti-Tank weapons in VR.





Police Training

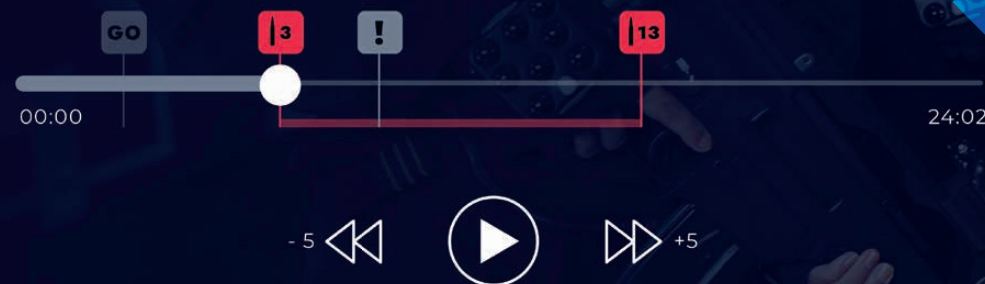
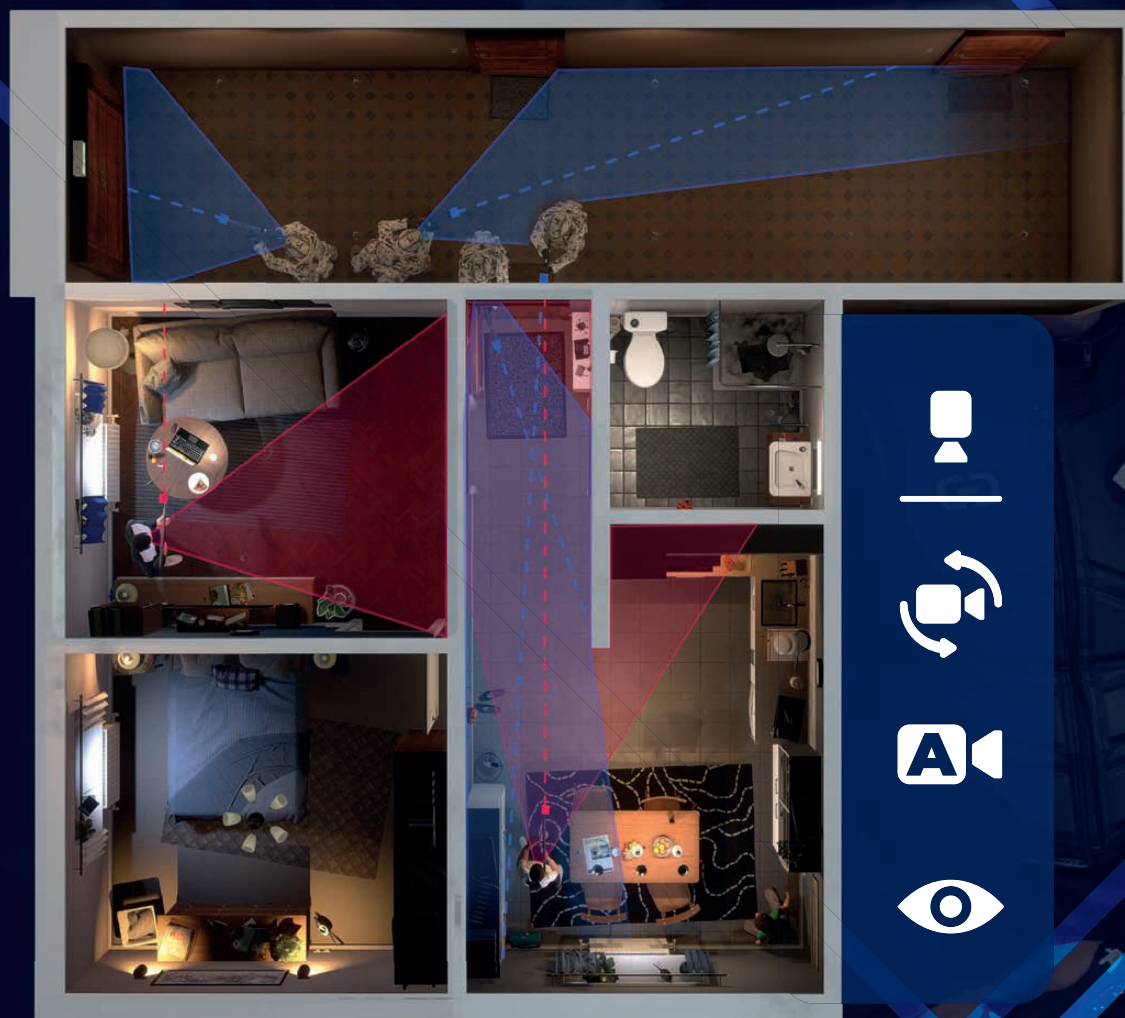
Train any scenario in VR at any level of intensity. Regular police stops, domestic, terrorism or crowd control are only a few possible situations.



The After Action Review is an essential part of virtual training.

The After Action Review adds more value to training by providing extensive data and feedback. All movements and actions can be analyzed, as the system records the entire training session in 3D. Retrace the action from different perspectives, and as many times as needed, until learnings fully manifest.

Strengthening the training experience.



Full-Body Tracking	✓
VR Headset Streaming Highest audio/visual performance without VR backpacks	✓
Low Latency Zero motion sickness	✓
Interoperability (Offline) Connect systems via local network	✓
Remote Support	✓
Offline Capability	✓
After Action Review Quick and efficient debriefings	✓
Scenario Configurator Create different scenarios via spawn builder	✓
Dynamic VR Spawn Choose VR start and training area via interface	✓
Integrated Weapons HK416, P8, G36, M4	✓
Immersive Effects Wind, heat, smell	✓
Extensive App / Map Library For different scenario configurations	✓
Third-Party API Integrate third-party hardware and software	✓
Software DevKit	✓



HGXR

Platform Features

X | M

Continuous Development and Optimization

- Character animations
- Scenario applications
- Scenario maps
- Scenario builder extensions
- Optimization on AAR
- Hardware and software updates



Development Roadmap

2023

Q2

- Finger movement tracking
- Shock belts for hit feedback
- AA/AT weapon integration
- Advanced User avatars
- Integration of human role players

Q3

- Integration Taser, Mp5 and Glock 46
- Integration of further tools, e.g. pepper spray and flashlight
- Advanced sound design
- Individual sound channels

Q4+

- Unreal Engine 5
- Biometric sensors
- Random map generator
- Enemy AI behavior

HGX

ASUS

htc



MBDA



der Bundeswehr
Universität München



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