



HP OMNICEPT SOLUTION

Delivering intelligent XR by
capturing the human condition

OUR VISION

is to drive the most desirable
immersive xR ecosystem that
naturally empowers all people
to better themselves.



VR WORKS



TRAINING AND EDUCATION

Safer, repeatable training for high-risk situations.

Maintenance training at full scale for better retention.

90%

Median recall accuracy for immersive HMDs, validating VR training.¹



AEC / PRODUCT DEVELOPMENT

Faster design iterations using full scale visualization.

More compelling executive & client presentations.

65%

Of architectural firms state VR is “critical” for winning projects.²



HEALTHCARE

Pre-surgery visualization of complex CT & MRI scans.

Improved medical professional training thanks to more visual & immersive content.

80%

Retention rate after one year when using VR for medical training.³



LOCATION-BASED ENTERTAINMENT

Moving the imagination from observation to participation.

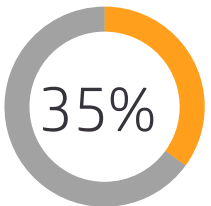
Drawing record numbers of crowds for branded IP experiences.

40%

CAGR through 2023 for number of locations with free-roam VR worldwide.⁴

THE NEXT WAVE OF ENGAGEMENT

PERSONAL. HUMAN. EVEN WHEN FUELED BY TECHNOLOGY.



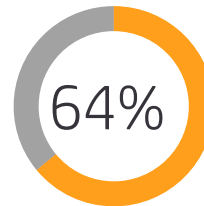
TRAINING

Increase in usage of tech in training since pre-COVID¹



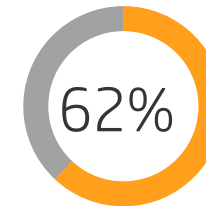
COLLABORATION

Communication is based on expressions¹



CREATION

Creative Pros believe most of their jobs can be done from home¹



WELLBEING

Prefer telehealth more than pre-COVID¹



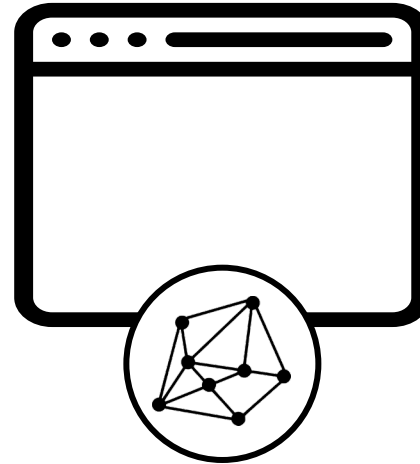
HP OMNICEPT SOLUTION

Designed to extend to additional HP & 3rd party solutions and devices

Bringing together XR hardware, AI, & sensor fusion technologies, our intelligent XR platform captures & interprets the human condition to allow for intelligent & adaptive XR experiences.



HP Reverb G2
Omnicept Edition



ISV XR Application
With Embedded
HP Omnicept SDK
(AI & Sensor Fusion)



**USER-CENTRIC
ADAPTIVE
EXPERIENCE**

with the HP Omnicept Solution



HIGHEST RESOLUTION VR HEADSET among major vendors²

HP REVERB G2 as the foundation

IMMERSIVE VIEWING

Industry leading Valve-designed lenses with **2160x2160** LCD panels per eye

HEAR NATURALLY

Valve-designed ear speakers that are spatial audio ready

FULL RANGE OF MOTION

4-camera tracking: **90%** of possible arm movement (vs 65%) can be tracked

Controller inputs conform more closely to **industry standards**

LONG WEARING COMFORT

Improved face mask cushion & IPD manual adjust



WORLD'S MOST INTELLIGENT VR HEADSET³

HP REVERB G2 OMNICEPT EDITION

- + LEVERAGE CONTEXTUAL BEHAVIOR
EYE TRACKING
- + ADAPT REAL-TIME
HEART RATE
- + ENJOY REAL HUMAN INTERACTION
FACE CAMERA

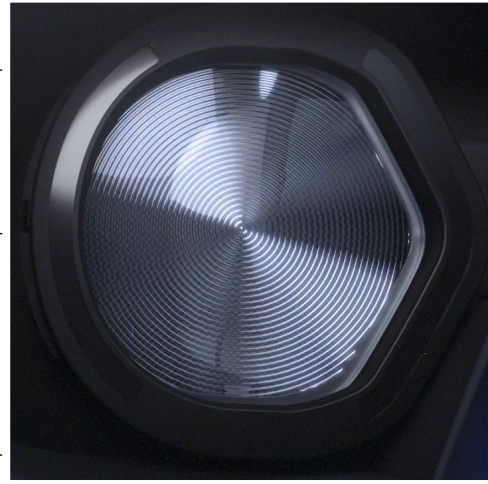


AMPLIFY TRAINING

EYE TRACKING SENSORS

PUPILLOMETRY SENSORS

FOVEATED RENDERING
ENABLED⁴



5X
the training
retention

LEVERAGE CONTEXTUAL BEHAVIOR - EYE MOTION AND GAZE

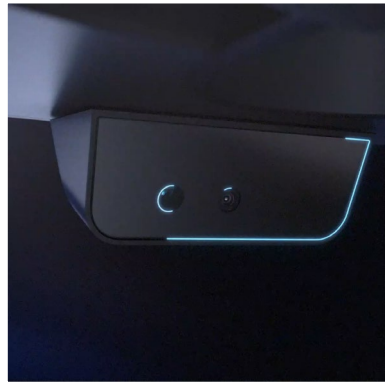
In training scenarios, you can understand how the user is responding to the content based on if their focus is on the wrong area, or that their first instinct should be to look and check at some part rather than another.



⁴ Foveated rendering applications must be built and compiled with the HP Omnicept SDK or NVIDIA VRS

ENHANCE COLLABORATION

FACE
CAMERA*



ENJOY REAL HUMAN INTERACTIONS

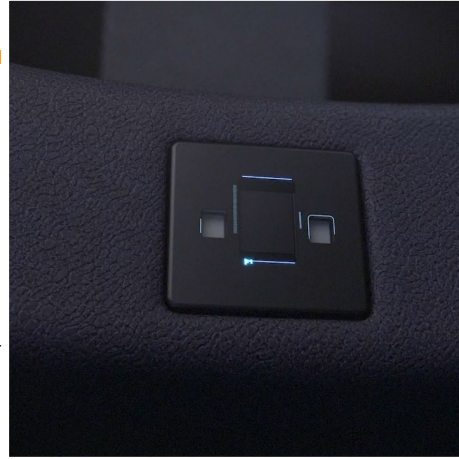
- FACIAL EXPRESSIONS

Have faster and better outcomes in a cross-functional development process while collaborating in VR around 3D designs with the ability to integrate facial expressions**.



IMPROVE WELLBEING

HEART RATE
SENSORS



ADAPT BY APPLYING NATURAL RESPONSES - HEART RATE

Understand how a client is reacting to their wellness activity in VR, based on their heart rate and adapt the experience to the specific client.





THE SOLUTION THAT CAN DO IT ALL

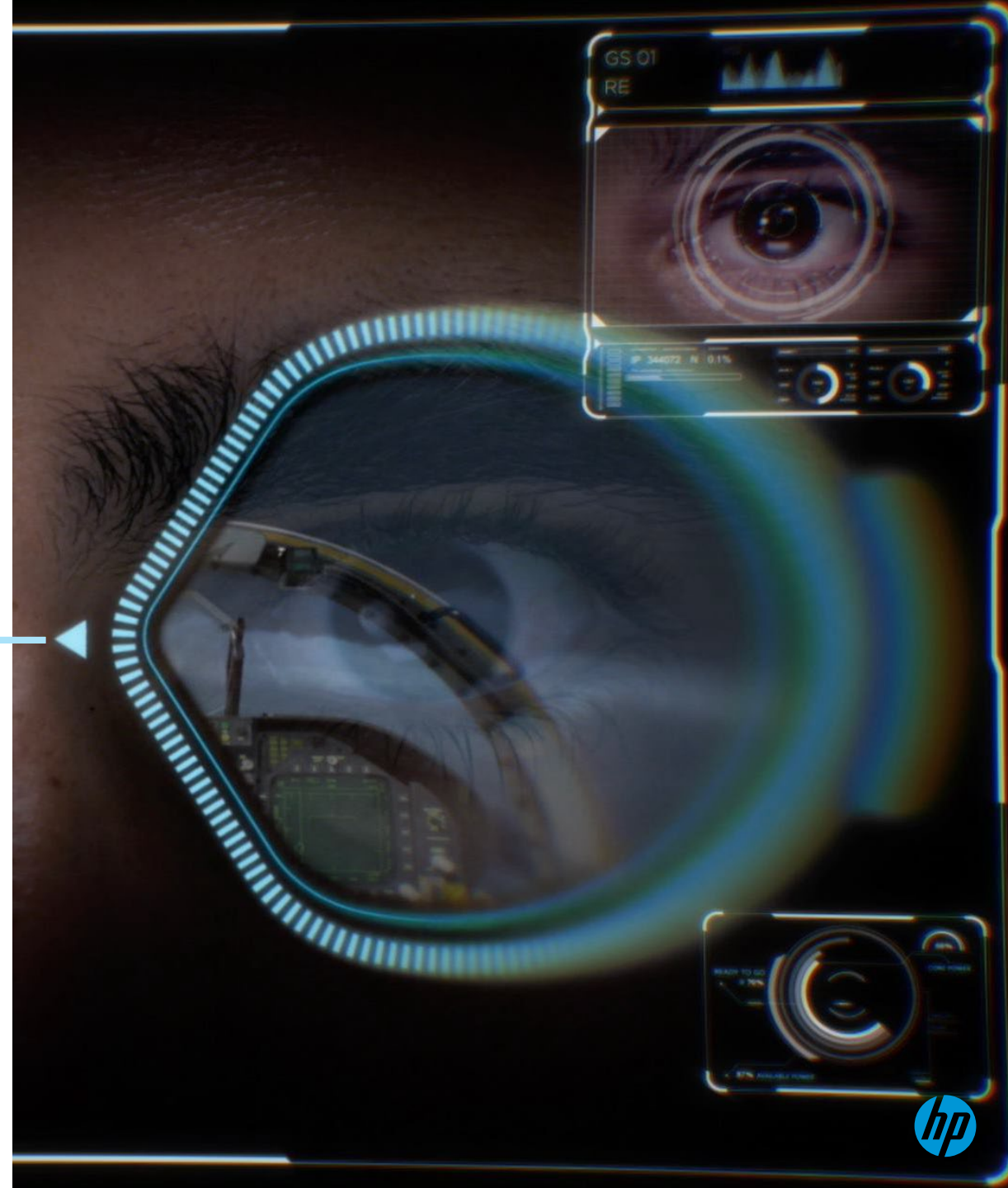
CONTEXTUAL BEHAVIOR - EYE TRACKING

REAL-TIME ADAPTATION - HEART RATE

HUMAN INTERACTION - FACE CAMERA

PERFECT FIT - RATCHETING HEADBAND

VISUAL EXPERIENCE — REVERB G2 as BASIS



HP IS YOUR ONE-STOP TRUSTED XR PARTNER

TO CAPTURE, CREATE & EXPERIENCE

HP Omnicept Platform is . . .

Extensible and will continue to evolve as new technologies & partners emerge.

Designed to work with XR engines like **Unity and Unreal**.

Secure to develop and deploy anytime, anywhere.

For more information . . .

Visit our **HP Omnicept Developer's Portal**

at <https://developers.hp.com/xr>

HP delivers the **world's most comprehensive** commercial VR solutions portfolio⁹, featuring the **HP XR Developer Program**.



Thank You

