

AR Hardware Strategy for Field IQ

What to deploy today for training centers, live field, and hazardous areas — and what comes next after HoloLens 2.



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Why this matters

Field IQ is the acquisition layer for EON Delta

- **Recognise assets** → knowledge portals → expert-on-shoulder → capture work delta → train EON Delta.
- **Meta display glasses** are already in use and **do not deliver true spatial Field IQ.**
- **Head-mounted displays** are technically strongest today (quality and capacity). **Glasses win later on comfort and field form factor.**
- **No single device** covers training immersion, outdoor plant overlays, and Zone 1 hazardous work.



Split by environment — **deploy the right hardware where work happens**

Training center

HMDs: Quest 3 · Pico Ultra Ent · VIVE Focus Vision · Vision Pro (premium)

HoloLens continuity

Bridge only: residual HoloLens / XR10 · **Magic Leap 2** (support cliffs 2027)

Live field

Phones & rugged/IS tablets (ARKit/ARCore) — Tab-Ex 05 primary IS path

Hazardous Zone 1

RealWear Navigator Z1 + IS tablets (assisted, not full holograms)

True AR glasses

Pilot only (non-IS): **DigiLens ARGO** · watch Snap Specs

Display glasses

Meta Ray-Ban Display—class: capture / AI glance only — not true Field IQ



Build once — fleet by environment

01

Content

OpenXR
(+ optional visionOS)

One pipeline.
Avoid HoloLens-only
apps.



02

Train

HMD fleets
in the center

Highest quality
immersion today.



03

Field

Tablet AR +
RealWear (IS)

Recognise → overlay
→
capture where work is.



04

Future

True AR glasses
pilots → fleet

As spatial quality
+ certs arrive.



A **Handheld** — deployable baseline

Best path today for recognise → overlay → portal → capture

- iPhone / iPad Pro — best handheld spatial quality (LiDAR)
- Samsung Tab Active5 — rugged ARCore; base for IS tablets
- Pepperl+Fuchs / Ecom Tab-Ex 05 — ATEX/IECEX; ARCore ready
→ primary IS tablet path
- Getac ZX-EX — Zone 2 Android + ARCore
- Windows Toughbook / EX — docs/EAM common; AR needs custom stack



Pros: ready now · best cameras · IS options · mature MDM

Cons: one hand occupied unless mounted · less immersive than HMDs

Head-mounted displays — best quality today

Training centers first · not outdoor / not Zone 1



Quest-class / Pico / VIVE Focus Vision

Training: strong · Field outdoor: no



Apple Vision Pro · Varjo XR-4 (premium / fidelity)

Premium rooms & sim bays · Field: no

HMD fleet notes

Meta Quest 3 / 3S

Training strong · outdoor no · commercial SKUs stopped Feb 2026

Apple Vision Pro (M5)

Premium training / viz excellent · field no · ~\$3,499

Varjo XR-4 / Focal

Highest fidelity sim · PC-tethered · training bay only

HTC VIVE Focus Vision

Strong training fleets · hot-swap batteries

Pico 4 Ultra Enterprise

Strong training · check GCC procurement policy

Samsung Galaxy XR

Emerging Android XR · worth piloting

Magic Leap 2

Optical bridge · end of sale · support → Dec 2027

HoloLens 2 / Trimble XR10

EOL · support → Dec 2027 · Guides/RA die Dec 2026

HoloLens 2 → optical continuity

- Microsoft has no commercial HoloLens successor.
- Dynamics 365 Guides / Remote Assist end 31 Dec 2026.
- HoloLens 2 device support ends 31 Dec 2027.
- Magic Leap 2 is the only near optical peer — also exiting first-party sales; support through Dec 2027.
- Trimble XR10 is HoloLens-based residual stock only.
- Use as a short bridge with a written exit plan — migrate content to OpenXR HMDs.



True see-through AR glasses

Pilot path toward glasses-form Field IQ — not plant fleets yet

- DigiLens ARGO — best glasses-form spatial pilot today (6DoF, bright, OpenXR) — not IS
- Snap Specs — fall 2026 consumer true AR; lab/demo, not plant
- Vuzix enterprise line — assisted / outdoor nits; verify Shield SKU
- RayNeo X3 Pro — lightweight experiments; O&G unproven
- XREAL / Rokid Max — virtual monitors — wrong tool for plant overlays
- Meta Orion — prototype only; do not plan BOM



Display / HUD glasses — limited Field IQ

Useful for capture & AI glance — not spatial Field IQ

- Meta Ray-Ban Display — fixed HUD (~20°), not 6DoF asset-anchored labels
- Matches experience: already implemented, not satisfactory for true Field IQ
- Even Realities / Halliday / Solos / Vuzix Z100 — captions/HUD, not spatial
- Keep in the stack for capture and AI assistance only
- Do not build core Field IQ only for this class



Intrinsically safe / hazardous areas

How oil & gas actually runs head-worn after HoloLens IE

- RealWear Navigator Z1 — ATEX/IECEX Zone 1/21, Class I Div 1: hands-free SOP, remote expert, inspection video/thermal
- Assisted reality — not HoloLens holograms
- Tab-Ex 05 / Smart-Ex / Getac EX / i.safe — Zone 1 or 2 by SKU for Field IQ ARCore apps
- Immersive HMDs — no ATEX Zone 1 found; do not force into haz zones
- True spatial AR glasses with Zone 1 — gap remains
- Pattern: Zone 1 → RealWear + IS tablet; safe/training → HMDs



RECOMMENDATION

What we recommend

- 1 Train on HMDs in the center — best quality and capacity available today.
- 2 Perform in the field on tablet AR (including IS tablets) and RealWear where certified.
- 3 Treat HoloLens 2 / Magic Leap 2 as a short bridge only — both face 2027 support cliffs.
- 4 Keep Meta display glasses for capture and AI glance — not the Field IQ spatial platform.
- 5 Pilot DigiLens ARGO (and watch Snap Specs) without delaying 2026 deployments.
- 6 Build once on OpenXR so customer investment moves forward as hardware improves.

