Mineral City ᴬᴵ

XR Vision //

AI-Powered X-Ray Verification for High-Risk and Regulated Products

01 // The Challenge

Even the most advanced inspection systems carry error rates that expose organizations to risk.

MISSED DEFECTS LEAD TO:

- Costly recalls and supply chain disruption
- Regulatory non-compliance with GMP, ISO, and CFR 21 quality requirements
- Reputational harm from compromised product integrity

Manual inspection is slow, labor-intensive, and inherently inconsistent. Traditional cameras cannot see inside sealed packaging, leaving risk unchecked.

02 // Our Solution

XR Vision integrates compact X-ray scanning with Mineral City's proprietary AI software to deliver non-destructive, real-time verification at scale.

- Confirms the completeness and authenticity of packaged products
- Detects anomalies and quality deviations invisible to the human eye
- Provides secure digital records to streamline GMP and ISO audit processes
- Reduces waste, rework, and regulatory exposure

03 // Why It Matters

EFFICIENT: Real-time verification with no workflow disruption
ACCURATE: Detects defects beyond the limits of vision systems
COST-EFFECTIVE: Mitigates downstream failures and liability
SCALABLE: Applicable across manufacturing, distribution, and healthcare settings

04 // Applications

INBOUND/RECEIVING: Verify authenticity and integrity before products enter inventory
IN-PROCESS/LINE-SIDE: Non-destructive completeness checks during assembly or kitting
OUTBOUND/PRE-SHIPMENT: Final verification before distribution to customers or partners
HOSPITAL/POINT-OF-CARE: Confirm surgical kits and implants before procedures
RETURNS/POST-MARKET: Authenticate and investigate without destroying packaging
REGULATORY & QUALITY AUDITS: Provide objective, digital inspection records for GMP, CFR 21, and ISO compliance reviews

05 // Next Step

Mineral City AI is engaging select partners for pilot-ready deployments with validated scanner integrations.

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