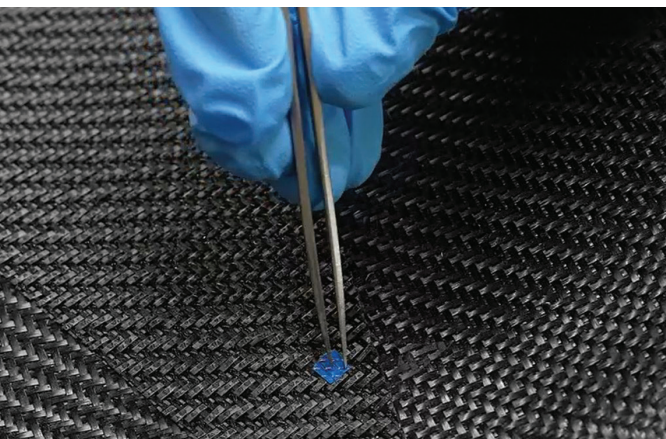


## **AI-DRIVEN AUTOMATION FOR MANUFACTURING**



### **PRECISION REDEFINED: THE POWER OF LASER PROJECTION AND AI-INSPECTION**

Discover how AI and automation are transforming the landscape of manufacturing quality control and process workflow



### **IRIS™ Ai CAMERA INSPECTION SYSTEM FOR COMPOSITES**

A powerful AI-driven inspection solution crafted for aerospace and automotive manufacturing. Our system seamlessly integrates advanced laser projection and AI camera technology to provide unparalleled precision, optimize productivity, and minimize rework and scrap. IRIS™ Ai detects and addresses quality issues in real time, instantly identify issues, such as backing paper and foreign-object-debris (FOD) without extra programming.

### **BUILT FOR HIGH-PRECISION ENVIRONMENTS**

The IRIS Ai camera system detects what the human eye might miss, adapting to lighting and environmental changes for consistent, reliable inspections. Integrated with the IRIS 3D platform, it provides a unified control interface, third-party compatibility, and full traceability with serial-numbered inspection reports.



INSPECTION



CAPTURE  
IMAGES



EXPORT  
PDF



REPORTING

# Revolutionize Quality Control on the Production Floor

Imagine a future of manufacturing with advanced laser projection and AI-driven insights at every step of the process:

- **AI FOD Detection:** Instantly identify backing paper and foreign-object-debris (FOD) without extra programming.
- **Edge Processing Ai Cameras:** Results in under 3 seconds with scalable camera options for larger, complex parts.
- **Integrated & Automated Detections:** Each IRIS™ Ai step prompts inspection and logs results in real-time.
- **Live, Real-Time View:** Instant feedback to operators, preventing issues before they escalate.
- **Comprehensive Process Monitoring:** Track every step with image capture and digitized data for optimized processes. Store images of each ply location, orientation, and process date and times by part serial number.
- **Seamless API Integration:** Effortlessly connect IRIS™ Ai with your existing software for real-time production insights.



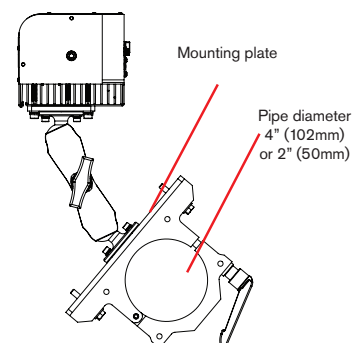
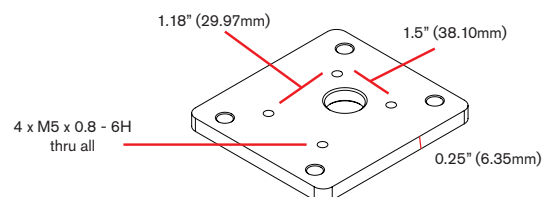
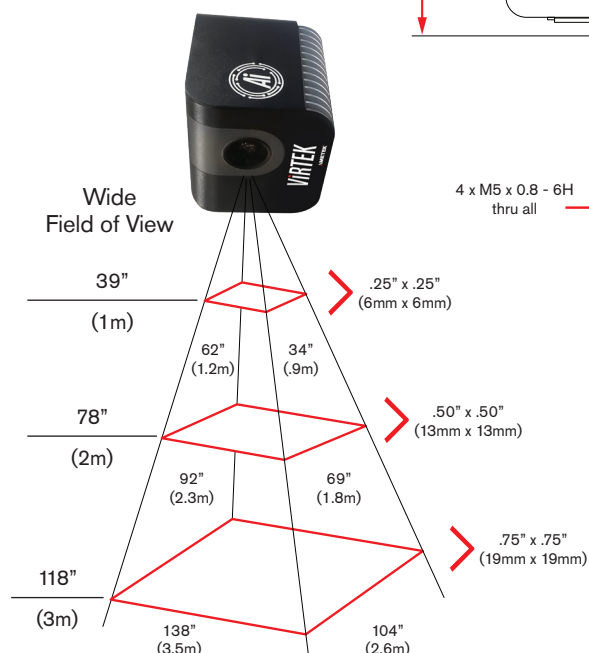
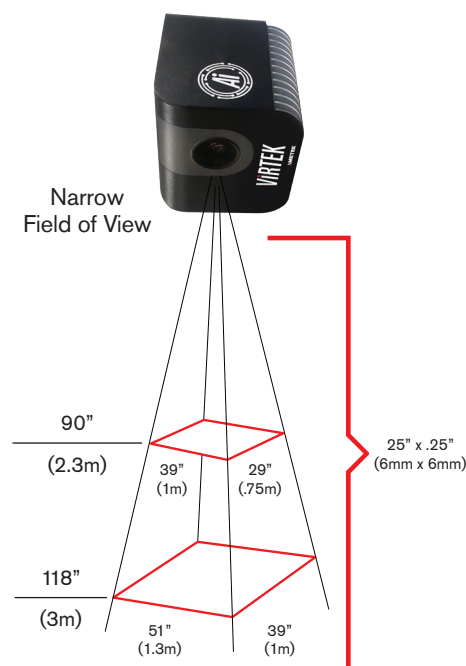
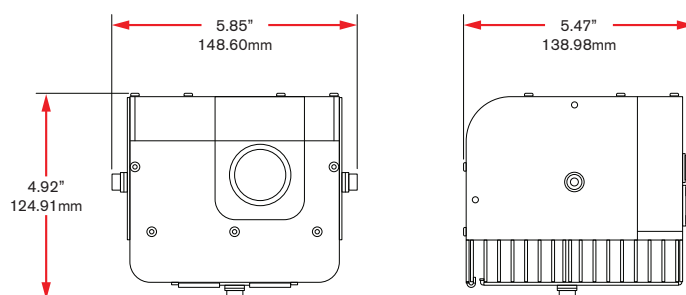
## Ready to Automate with AI?

Transform your inspection process with our advanced AI technology. Contact us today to schedule a demo or discover how IRIS™ Ai can enhance your manufacturing operations.

## Technical Specifications

**Camera:** 12MP | Weight: 1.4 kg (3lbs)  
Power: <0.5 Amps, 12V AC/DC

**Environment:** Operating temperature: 5°C to 40°C (41°F to 104°F)  
Vibration free environments are recommended for Ai camera use



**VIRTEK**  
AMETEK  
virtekvision.com

## Unsurpassed Customer Support

Virtek's highly-skilled and experienced service technicians install and calibrate each system and train users on-site. Customer support centers ensure you achieve maximum productivity of your Virtek laser and camera technology.

Toll free (in North America): 1.800.684.7835

International: (+1) 519.746.7190

UK: +44 (0) 161 864 6490

virteksales@ametek.com

virtekservice@ametek.com