



# VJ TECHNOLOGIES

## Ordnance Inspection

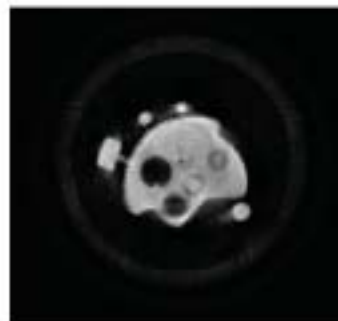


For over 15 years V.J. Technologies, Inc. has been a world leader in the provision of x-ray inspection systems for the aerospace industry and all of the military branches. Inspection of a wide range of ordnance is made possible by our products. Two ordnance inspection systems are described here.

### 40mm Inspection

This production system is capable of operating in excess of 60 rounds per hour. Digital radiography and Computed Tomography (CT) are technologies implemented to identify pinholes and scratches or an armed or safe status of the artillery. Defects that occur in the "boat end" of the projectile cannot be detected, without the use of CT, due to the "honeycomb" structure of the material interfering with the defect image. By peeling away 0.5mm of the reconstructed image that contains the honeycomb, the defects can be recognized and automatically detected in the remaining material. A CT slice

through a fuse enables rapid determination of safe/armed status.



### Large Ordnance

For large ordnance a production inspection system is also available. Digital Radiography and real time inspection is provided for ordnance up to 1,000mm in height and 400mm in diameter. Load/unload stations enable ordnance to be safely loaded/unloaded while inspection is being performed. Ordnance is moved into the inspection cabinet automatically. Software options include ADE and digital archival. The computer workstation and image acquisition and analysis software provide a comprehensive interface for data processing and archival. The workstation receives inputs from the image detection equipment that enables an inspector to acquire, enhance and analyze images captured by the x-ray detection equipment.

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