

LETTERKENNY ARMY DEPOT BLUE LIGHT SCANNING



U.S. ARMY



The blue light scanner is a portable metrology unit that can identify an asset's structural and surface deformations via 3D scans.

QUALITY INSPECTIONS:

Letterkenny Army Depot, or LEAD, utilizes blue light scanning to create 3D models that help perform quality inspections by revealing surface abnormalities on various assets within several hours. Engineers and artisans refer to these deformations to identify any needs or replacements required to repair damaged assets.

Scanned assets include:

Extended Range Cannon Artillery (ERCA):

Entire hull can be scanned within six-and-a-half to seven hours

Buffalo:

Scanned within eight to nine hours

Phased Array Tracking Radar Intercept of Target (PATRIOT) System:

Scans vary based on system component or asset

High Mobility Artillery Rocket System (HIMARS):


Entire cab can be scanned within two to three hours


REVERSE ENGINEERING:

LEAD engineers use blue light scanning to draft CAD models, drawings and blueprints based on digital twin model captures created by the scanner. Artisans refer to these models to create drawings and blueprints for existing parts, and apply technical data to manufacture replacement components for damaged assets.

Reverse engineering does not only reduce time needed to repair each asset, but it also reduces the expenses needed to procure replacement parts.

CONTACT US:

 usarmy.letterkenny.usamc.list.new-business-development@army.mil

 717-267-5210

 <https://www.letterkenny.army.mil/>

