



## MARK IV TANK

**ISSUE:** Capture the dimensional condition of the U.S. Army Ordnance Museum's World War I Mark IV tank to support restoration efforts.

**EQUIPMENT:** Coherent Laser Radar (CLR), Optical Handheld Scanning

**EFFORT:** A SURVICE Metrology/Metris team, using a Coherent Laser Radar and a Handheld Optical CMM Scanner, collected 8 million points over 4 days on the Ordnance Museum's Mark IV tank located in its outdoor display. Spatial Analyzer and PolyWorks software were used to develop a surface model (4 million polygons) of the tank.

**BENEFIT:** The detailed dimensional data will be used to support the restoration effort of this national treasure.

