



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE SUSTAINMENT CENTER (AFMC)
TINKER AIR FORCE BASE OKLAHOMA

23 September 2026

MEMORANDUM FOR RECORD

SUBJECT: Item Description, A27-022 Videoscope.

1. The AMXG group is requesting utilization of funds for the purchase of One (1) Videoscope.
2. The requested equipment item descriptions/specifications are outlined below.
 - Shall be a commercial off-the-shelf (COTS) item.
 - Shall be compliant with the Trade Agreements Act (TAA).
 - Shall have a total system weight not exceeding 20 pounds.
 - Shall be delivered fully assembled and ready for use.
 - Shall include an operations and maintenance manual.

Insertion Tube

- Shall include an insertion tube with a length between 3 and 6 meters.
- Shall have a maximum outer diameter of 4 millimeters.
- Shall provide a minimum 80-degree field of view.
- Shall have a forward-facing direction of view.
- Shall include forward-facing light-emitting diode (LED) lighting.
- Shall have a minimum ingress-protection rating of IP54.

Controls and Articulation

- Shall have a joystick control to maneuver the videoscope.
- Shall have a minimum of four-way, 120-degree articulation at the distal end of the videoscope, controllable by the joystick.

Display and Main Unit

- Shall include a color, touchscreen display measuring between 6.5 and 12 inches.
- Shall provide a minimum display resolution of 1,920 × 1,080 pixels.
- Shall include a backlit display.
- Shall contain a support strap or handle to hold the main unit during use.

Measurement and Modeling Capabilities

- Shall be capable of taking the following live measurements:
 - Length between two points.
 - Length between a point and a user-defined line.
 - Orthogonal height distance between a point and a user-defined plane.
 - Surface area of a user-defined region.
- Shall be capable of modeling surfaces recorded in three dimensions (3D).

Power, Recording, and Storage

- Shall be battery powered.
- Shall be capable of recording still images in a compressed Joint Photographic Experts Group (JPEG) format.
- Shall be capable of recording videos in a Moving Picture Experts Group-4 (MP4) format.
- Shall be capable of storing images, videos, 3D models, and measurements on a removable Secure Digital (SD) card.