



## **Architect's and Engineer's Specifications**

### **Und-aware™ AG-500/BG-500 UVSS**

The "500 Series" under-vehicle surveillance system shall consist of a color, high-resolution, 8-imaging sensor package. System comprises four modules; each having two imaging sensors with four high-intensity white LED's. The above-ground (AG) system adds four ramps per module along with end pieces for cable exit protection.

A system control unit interfaces with an image control unit to facilitate touchscreen control of the lights, AirWash™, cameras, recording, playback and database management. The system shall allow the digital recording and playback of up to 10 cameras: eight cameras supplied as part of the under-vehicle surveillance system, and an additional two cameras not included with the system which may be used for driver imaging, license plate recording, etc. An additional six cameras may be added to provide enhanced visual monitoring capabilities.

Display shall be a 17-inch or larger high-resolution , touchscreen, LCD monitor. Larger monitors are supported and may be supplied if requested.

System shall come standard with a 15-meter cable set and shall be accommodative to cable lengths of up to 1,000 feet.

An integrated, patented, automatic air-powered lens cleaning system shall be incorporated to remove dust, dirt, debris and water from the camera and light lenses. Mechanical systems with wipers or pop-up nozzles are not acceptable. Acceptable solutions shall include the patented Air Wash™ lens cleaning system from VIT with special vortex air nozzle design and Tri-Blast™ cleaning which allows the use of small low-current-draw air compressors. Such a compressor shall be supplied as part of the system package (U.S. systems).

System shall come complete with all components for operation and installation including air compressor (U.S. system) and mounting hardware kit (AG system). System shall be engineered to operate on standard 15-amp electrical service. To facilitate domestic and world-wide operation, system shall operate from 95-265 volts, 50-60 Hz (except air compressor). The system shall be available as above or below ground (installed) and shall be load rated for a 100,000-pound wheeled vehicle.

Under-vehicle lighting shall be high-intensity white LED's, rated up to 100,000 hours. Lights and imaging sensors shall be IP-68 rated, with lifetime guaranteed scratchproof lens covers and may be used in a condensing environment. Lighting and imaging sensors shall be field replaceable.

AG-500 dimensions: Maximum height-2.5 inches; width-10.5 inches (base module) 51 inches with ramps; length-96 inches. The four modules are 24 inches long each and the end pieces add 20 inches.

BG-500 dimensions: Height-2.5 inches; width-10.5 inches; length-96 inches. For flush surface mount installation, a slightly oversize trench with drainage must be provided.

System shall be constructed of non-rusting, rugged, cast aluminum with additional components of brass, aluminum, plastic, or other rust-free materials. Steel products are non acceptable.

Portable ATA-rated carrying cases shall be optionally available. Warranty shall be 1-year, parts and labor. An integrated Automatic License Plate Reading system and SQL database interface are available options.

Unit shall be the Und-Aware™ AG-500 above ground (with ramps) or BG-500 flush-mount installed (without ramps).