

Kutta Unified Ground Control Station - UGCS



Modular Design



KUTTA

Technologies for earth and air

Unified Ground Control Station

- Complete UAS STANAG L5 Backpack Control Station
- STANAG 4586 Compliant
- Agent-Based Decision Aids
- 2D/3D Flight Planning
- Easy-to-Use Touchscreen GUI
- Sunlight-Readable Screen
- Custom Integration Solutions
- Full VGA, Real-Time Video Display



UGCS-400



UGCS-300



UGCS-200



UGCS-100

UNIFIED GROUND CONTROL STATION - UGCS-400

Ruggedized Hardware Specifications

- Designed to meet MIL-STD-810F
- Size: 10" x 5" x 1.5"
- Weight: 2.5 lbs *Handheld Controller*
- Total System Weight: ~ 15 lbs *Handheld Controller, Backpack & Batteries*
- Power: (2) UBBL06 (LI-145) Lithium Ion Rechargeable*
*Hot-Swapable / Est 7 Hours Duration @ Full Duty Cycle
- Touch-Screen / Sunlight-Readable
- Ruggedized Computing Platform Sealed to IP68 Standards
- Omni-Directional Antennas
 - C2 Range: 60 NM Line-of-Sight
 - Video Range: 10 NM Line-of-Sight

Capabilities & Applications

- Pre-Mission Analysis & Simulation
- Enhanced Mission Safety / Terrain Avoidance Preview
- Intelligent Health Monitoring
- Intuitive Touch-Screen GUI Design / Rapid User Proficiency
- Joystick Payload and UAS Control
- Real-Time MPEG 2/4 Video Display & Saving
- Reconnaissance - Surveillance & Target Acquisition (RSTA) Planning
- Real-Time Target Geo-Location with Image Capture
- Automated Fixed-Camera Standoff Distance Calculation
- Autonomous Follow-Me and Loiter Modes

STANAG 4586 VSMs

- Cloud Cap Piccolo™ Autopilot VSM
- Kestrel™ Autopilot VSM
- FCS20 - Autopilot VSM
- MLB BAT-3 VSM
- JUAS VSM
- Custom STANAG 4586 VSM

Ruggedized Computing Platform

- 1.0 GHz Atom Processor, or
- 1.2 GHz Core2 Duo Processor
- 2 GB RAM
- 32 GB Hard Drive

Mapping (Tiled Application)

Supports all DoD National Geospatial Agency Formats (NG Map and Digital Terrain Elevation Data (DTED))

- Elevation Models
 - Digital Terrain Elevation Data® (DTED®)
 - USGS Digital Elevation Model (DEM)
 - Binary Terrain (BT)
- Raster Formats
 - Compressed ARC Digitized Raster Graphics (CADRG)
 - Geo-Tiff (TIF)
 - Binary Imagery
- Vector Formats
 - ESRI Shape Files (shp)

