

UC-6000 DIGITAL MAPPING SYSTEM MARKETING SPECIFICATION

UltiChart™

MISSION MANAGEMENT SOFTWARE FEATURES

MAPPING AND DATA	
AeroStreet™ DYNAMIC MAPS	On-demand scaling from the world level to the tactical parcel level, with 16 levels of vector-based maps
FAA MAPS	Helicopter*, Terminal Area*, Sectional, and WAC Charts provided for situational awareness; not for navigation (*where available)
DATA	Obstacle database, High-resolution terrain elevation data provided for situational awareness; not for navigation
TOPOGRAPHIC MAPS	USGS 24k, 100k, US Forest Service (where available)
AERIAL IMAGERY	High-resolution aerial imagery, sub-meter Aerial Imagery (where available)
GEOGRAPHIC COVERAGE	North American AeroStreet™ Maps (USA, Canada and Mexico) Other Country Maps available
OPTIONAL & CUSTOM MAPS	NOAA Nautical Charts, 8k & 2k Aerial, Custom, including trail maps
INTERACTIVE MAP FEATURES	
<p>DISTANCE AND BEARING MEASUREMENTS</p> <p>Measure distances and directions to help deliver situational awareness to ground personnel</p>	
<p>BREADCRUMBS</p> <p>Allows the operator to view the track of the aircraft or camera FOV One key toggle on/off</p>	

WAYPOINTS	<ul style="list-style-type: none"> - Persistent – Created on-the-fly or imported from existing data - Temporary – Created on-the-fly, can be saved - Mission Folder – Stored on USB media for easy transfer
INCIDENT MAPPING	<ul style="list-style-type: none"> - Draw incident boundary using the gimbal, the aircraft position, or manually with the cursor keys - Measures the length of the incident perimeter and the enclosed area - Can be exported for analysis with GIS Systems or Google Earth

TARGETING CAPABILITIES

SmartSearch targeting - Search Address, Intersections, POIs, Businesses and Aviation data from one place

Target geographic location (lat/lon, MGRS, UTM), and waypoints

Temporary waypoints and Laser Range Finder (LRF) targets (LRF not standard on all gimbals)

Dynamic Targets when integrated with supported equipment, e.g. AIS

Focused Searching, user defined

Limitless Searching - Search within a single county, multiple counties, entire state, or custom area

"Sounds Like" and partial match searching

View target History revisit previous targets from the current mission

Vehicle speed measurement – using the distance/time measurement (VASCAR) method

Grid Search – User defined Grid; system fills in grid tiles based on search parameters

FOCUS ON YOUR MISSION, NOT THE SOFTWARE

User dialogs do not cover up the video; search without ever taking your eyes off the target

Focus on the video and nothing else with one-button decluttering

Enhanced on-screen information

FLEXIBILITY – PERIPHERAL SUPPORT

MONITORS	<ul style="list-style-type: none"> - Works with all major monitor manufacturers - Resolution - Standard to Full HD - Aspect Ratio - Standard to Wide Screen - Flexible Smart Search Dialogue, and Smart Bar sizes - Full touch screen compatibility
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INFRARED/EO CAMERA SENSORS	Wide range of gimbal models supported; available functionality dependent on specific model integrated
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UC3D™ - AUGMENTED REALITY

Overlay data directly on live gimbal video or aerial imagery, such as street lines, street names, addresspoints, or points of interest (POIs)	
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Allows the operator to maintain focus on gimbal video
Blend between video and aerial imagery
Dynamic labels, always have a street name in view
Superior overlay alignment with physical features
View independent projected video to see properly geolocated video
One-touch information de-clutter
DVR (DIGITAL VIDEO RECORDER)
Can record the raw Camera video and/or the Screen display
The Internal DVR can record TWO simultaneous streams; each video source can be started/stopped independently of the other
Can be started automatically when UltiChart™ is launched
Replay: Pause, Rewind, Fast-Forward, and Zoom
Audio recording and playback
No additional equipment needed to record the screen with overlays
Download and play recording on any computer with no special hardware or software needed
DOWNLOAD OPTIONS
Wireless download to another hard drive or cloud - based storage
USB download
VIDEO REPLAY
Can replay the last 10 most recent videos during mission while still recording
Can replay the current Camera recording or the current Screen recording
Can be paused/resumed with single keystroke
Can be reversed/forwarded in 30 second increments with single keystroke
Easy control of playback and rewind
Replay can be viewed in split-screen or full-screen replay with single keystroke
Video “scrubbing” available
INTEGRATION WITH OTHER SOFTWARE AND HARDWARE
MDT, CAD, MDC systems
Falconview
Sentient Kestrel
Radars
Downlink Systems
Searchlights
LoJack
OTHER SOFTWARE TOOLS AND UTILITIES
Import and Export flight history, waypoints, screenshots, mission folders, and log files
Map Data Manager for importing custom maps and data
Simulation and Replay utilities provided for training, mission analysis, and mission planning
Technical Tools are provided for configuration and system troubleshooting
Remote access for technical support, updates and training
TRAINING AND TECH SUPPORT
Instructional videos are available for basic and advanced users
Learn from our technical trainer with 26 years law enforcement / 6 years Tactical Flight Officer experience
Telephone support available for technical and operational questions with our field service reps

OPERATOR INTERFACE

Operator interface options include using the AK-4 keyboard loose or sliding version, Touchscreen Keyboard and Soft Button Overlay that can be used separately or together.

Use the AK-4 Keyboard integrated mouse or a separate mouse / pointer.



UC-6000 HARDWARE SPECIFICATIONS

GENERAL SPECIFICATIONS	
WEIGHT	12 lbs
POWER	120 watt; 28VDC
DIMENSIONS	7.0"W x 6.5"H x 15.5"L
DO160 CERTIFICATIONS	Vibration, Shock, Temperature, Altitude, EMI
MOUNTING	Tool-less removal
GPS RECEIVER	Integrated WAAS-capable
ENVIRONMENTAL CONDITIONS	
STORAGE TEMPERATURE (°C)	-40 to +85
OPERATING TEMPERATURE (°C)	-40 to +55
COMPUTER SPECIFICATIONS	
PROCESSOR	Intel Core i7
MEMORY	32GB
HARD DRIVE DATA STORAGE	2TB Solid State Drive (SSD)
INPUTS/OUTPUTS	
HD-SDI	(4) Input, (3) Output, (1) Loop-through output
VGA	(3) Outputs
HDMI	(1) Service port
COMPOSITE	(1) NTSC/PAL Input
SERIAL COMMUNICATIONS PORTS	(8) RS-232 or RS-422 for attaching gimbals and other devices
USB	(2) USB 3.0 port; (3) USB 2.0 ports
ETHERNET	(2) Gigabit ports
Internal Digital Video Recorder (DVR)	
VIDEO COMPRESSION	H.264
SELECT INPUTS	Digital and Analog Signals
AUDIO INPUT	High Definition
RESOLUTION, QUALITY, AND FRAME RATE	Configurable up to 1080p at 60Hz
VIDEO CONTAINER FORMATS	MPEG-4 and MPEG-TS
KLV METADATA	MISB 601, STANAG 4609
RECORDING MEDIA	Internal SSD, USB drive, Upload to drive or cloud
SUPPORTED VIDEO PLAYERS	Playable by all standard video players

3 Year UC-6000 hardware
System lifetime software updates using wireless connection for remote access
Extended hardware warranty agreements are available upon request