

UC-6000 DIGITAL MAPPING SYSTEM



MARKETING SPECIFICATION

UC-6000 HARDWARE SPECIFICATIONS

GENERAL SPECIFICATIONS	
WEIGHT	12 LBM
POWER	120 watt
DIMENSIONS	7.0"W x 6.5"H x 15.5"L
DO160 CERTIFICATIONS	Vibration, Shock, 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	16GB
HARD DRIVE	2TB Solid State Drive (SSD) Optional removable SSD storage bay
INPUTS/OUTPUTS	
VGA OUTPUT	(3)
COMPOSITE INPUT	(1) NTSC/PAL
HD-SDI	(4) input, (1) loop-through output, (3) output
HDMI OUTPUT	(1)
SERIAL COMMUNICATIONS PORTS	(7) RS-232 or RS-422 for attaching gimbals and other devices
USB	(1) USB 3.0 port; (3) USB 2.0 ports
ETHERNET	(2) Gigabit ports
Internal Digital Video Recorder (DVR)	
VIDEO COMPRESSION	H.264
HD-SDI AND COMPOSITE/PAL INPUTS	Selectable
AUDIO INPUT	HD
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	Removable SSD
SUPPORTED VIDEO PLAYERS	Playable by all standard video players

UltiChart™ 3.0

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, US Forest Service (where available)
AERIAL IMAGERY	High-resolution aerial imagery, sub-meter Aerial Imagery available
GEOGRAPHIC COVERAGE	North American AeroStreet™ Maps (USA, Canada and Mexico) Other Country Maps available
CUSTOM MAPS	Available, including trail maps
INTERACTIVE MAP FEATURES	
DISTANCE AND BEARING MEASUREMENTS	 <p>Measure distances and directions to help deliver situational awareness to ground personnel</p>
GIMBAL BREADCRUMBS	
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, and Aviation data from one place	
Address, intersection, airport, geographic location (lat/lon, MGRS, UTM), places of interest, 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 just what's directly around you	
"Sounds Like" and partial match searching	
Target History - revisit previous targets from the current mission	
Vehicle speed measurement - using the distance/time measurement (VASCAR) method	
Grid Search - Grid is defined by the user; 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	
DISPLAYS	<ul style="list-style-type: none"> - Works with all major monitor manufacturers - Standard screen, widescreen, low resolution, HD; UltiChart™ 3.0 handles it all - Flexible Smart Search Dialogue, and Smart Bar sizes - Full touch screen compatibility
INFRARED/EO CAMERA SENSORS	Wide range of gimbal models supported; available functionality dependent on specific model integrated
UC3D™ - VIDEO OVERLAY	
Overlay data directly on live gimbal video or aerial imagery, such as street lines, street names, address points, or points of interest (POIs).	
Allows the operator to maintain focus on gimbal video.	
Fade 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 zooming	
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	
VIDEO REPLAY	
Can replay the last 10 most recent videos	
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
TRAINING AND TECH SUPPORT
New system training and reoccurring training comes standard at no cost
Technical support via telephone is available 24/7 by one of our field service reps. If a problem can not be handled over the phone, or if you cannot have a system sent in, we will schedule to have a technician onsite at no additional cost.

WARRANTY AND MAINTENANCE AGREEMENTS

WARRANTY
3 Years UC-6000 Hardware
MAINTENANCE AGREEMENT
FREE Map and Data Updates for the lifetime of the system
In-Field Software, map, and data updates using USB or Removable SSD