



SITUATIONAL
AWARENESS
SOLUTIONS

FliteScene® 2.7.3 — Full-Capability Digital Map

BENEFITS

- Combat proven situational awareness
- Industry leading performance
- Feature rich
- Easy to install
- Portable—supports many operating systems
- Scalable—to use available resources
- Configurable—via XML config files
- Mission planning compatibility—standard databases and overlays
- Widely used and supported

Harris' FliteScene® Digital Map is a high performance, combat proven, feature rich, digital moving map software product that provides advanced situational awareness for the most demanding conditions faced by both military and civilian flight crews. It is designed to operate in general-purpose, reconfigurable graphics hardware and to be hosted on a variety of airborne or ground-based systems.

FliteScene® supports a standard OpenGL interface that allows for seamless integration with COTS processors and graphic accelerators. This open-hardware approach provides a powerful digital map capability that can support any platform.

FliteScene's wide variety of features also can be effectively applied to civilian use applications, including law enforcement, fire, search and rescue, and any commercial platform that can benefit from real-time digital mapping and situational awareness.

FliteScene is a continually evolving product, allowing it to grow and adapt to the changing needs of today's military and civilian agencies.

HARRIS[®]
assuredcommunications[®]



FliteScene® 2.7.3—Full-Capability Digital Map

MULTI-SERVICE USERS

- > U.S. Army
 - CH-47F
 - UH-60M
 - AH-64D
- > ARSOC
 - MH-47G
 - MH-60L-DAP
 - MH-60M
- > AFSOC
 - MC-130J
- > U.S. Marine Corps
 - UH-1Y/AH-1Z
 - CH-53E
 - CH-53K
 - VH-60N
- > U.S. Navy
 - MH-60R/S
- > U.S. Coast Guard
 - MH-60T
 - MH-65E
 - HC-130H

FEATURES

Modes

- > 2D plan view
- > 3D perspective: cockpit and wingman views, with extended scene and enhanced performance
- > Data frame: Bitmap, JPEG, JPEG 2000, PDF, PNG, TIFF, Icon

Database Standards

- > Charts: CADRG, ECRG, GeoTIFF
- > Imagery: CIB® with auto contrast adjust, GeoTIFF
- > Street maps: Any source (e.g., Open-StreetMap) converted to GeoTIFF
- > Aviation: ARINC 424, DAFIF
- > Elevation: DTED Level 0, 1, and 2; RDTED 750m, 150m, and 37.5m
- > Depth: DBDB-V (2, 1, 0.5, 0.1, and 0.05 arc-minutes)

Map Underlay

- > Configurable product codes to support any RPF scale for the following map underlay types:
 - Charts, imagery, GeoTIFF, and street maps
- > Multiple underlay layers
- > Terrain (elevation)
- > Bathymetry (depth)

Map Overlays

- > Elevation overlays: Slope shading, contour lines, elevation bands, Height Above Terrain (HAT)—2 or 3 band
- > Depth overlays: Slope shading, depth contours, and depth banding
- > Targets and other line-of-sight objects (e.g., beacons, radios, targets, etc.)
 - Visibility patterns (area or spoke), range rings, symbols (pop-up and predefined object management), threat characteristics file, group declutter



■ First two images at far left: Standard 2D map formats in any RPF scale with multi-layer display capability. Center top: Aviation overlays. Center bottom: GeoTIFF street maps. Right: Situational awareness in 3D view. Far Right: Bathymetric shading, contours, and bands.

- Vector: Nav aids (VHF, NDB), waypoints, en route airways, heliports, airports, runways, airspaces (restricted, controlled)
- Ownship visibility patterns
- Vertical obstruction points, Manual CHUM, ECHUM
- Tactical symbols, with configurable symbol sets (e.g., MIL-STD-2525C, custom)
- User-defined symbols (screen and geographically referenced)
 - Line, polygon, arc, icon, string, text box
- Mission planning symbology (e.g., drawing file objects, local points)
 - Routes, boundaries, SAFIRE, LZ/PZ, phase lines, ATOs, ACOs, etc
 - Dynamic loadable symbol files
 - Declutter by symbol filename
- Sensor symbology: Multivehicle (e.g., ownship, UAVs), multisensor, vehicle symbol, trend dots, sensor pattern, sensor point-of-intercept, vehicle history display and log

- Geochips and dynamic GeoTIFF (run time commanded geo-referenced image overlays)
- Clear Line-of-Sight (CLOS) and Point-of-Intercept (POI) symbology
- Route symbology
 - Import PFPS route files via plug-in
 - Serpentine legs, speed/altitude gates
- North indicator, compass rose, MAGVAR
- MGRS grid box
- Range/bearing line
- Elevation profile
- Search patterns
- Symbol time effectivity

Display Features

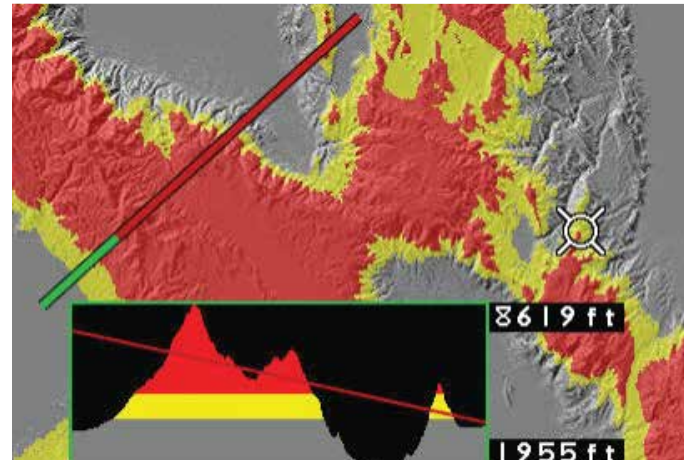
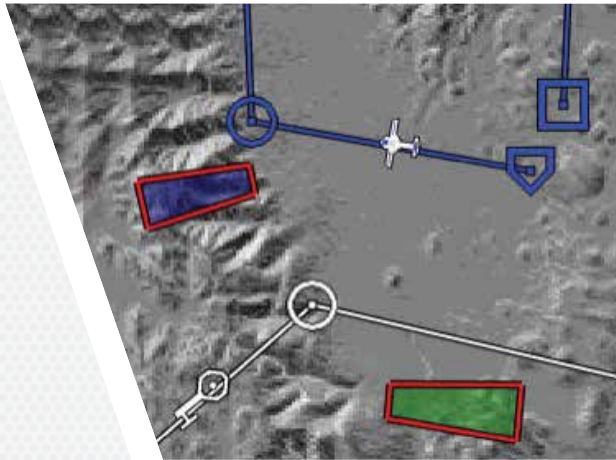
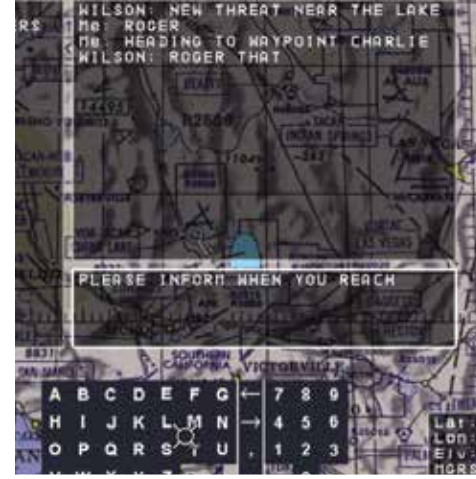
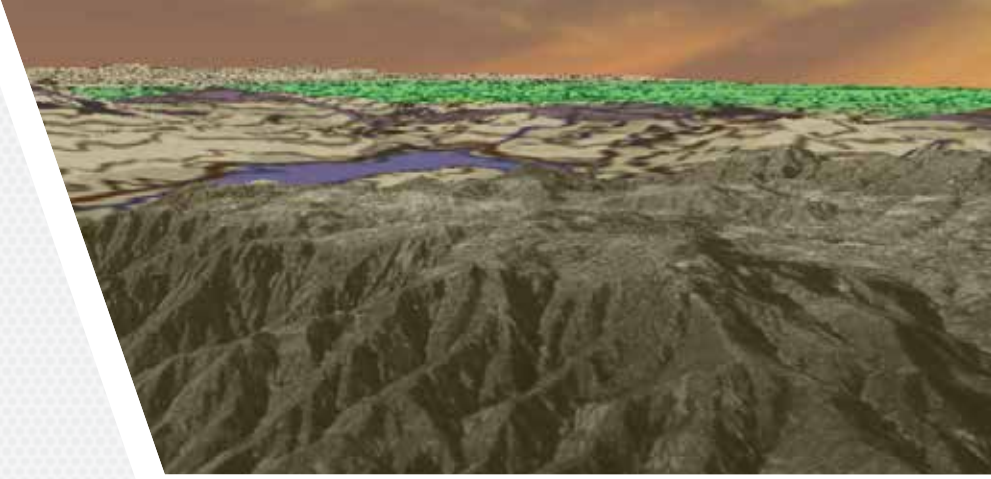
- Multichannel output
- Pan/slew, zoom, orientation
- Seamless zone boundary matching
- Bezel key symbology
- Enhanced cursor interface (data requests, symbol manipulation)
- Map dim

Data Requests

- Coordinate conversions (latitude/longitude, screen, MGRS)
- Elevation requests (local and global)
- Depth requests (local and global)
- CLOS, POI

Environment

- Processor independent
- OpenGL graphics
- Operating systems: VxWorks, 653, INTEGRITY, LynxOS, Linux, Windows, Android, iOS
- Memory requirements: Configurable at initialization; 128 MB system, 128 MB video min preferred
- Bezel key and/or ethernet command interface
- File I/O via local or remote (e.g., NFS, FTP, NTFS) file system
- 32 and 64 bit compatibility



■ Clockwise from top left: Enhanced 3D with multilevel detail (e.g., high-res elevation/CIB near-field, lower res elevation/chart far-field); text box (e.g., message/chat); height above terrain, line-of-sight, and elevation profile; multi-vehicle tracking and sensor footprint display.



Government Communications Systems
P.O. Box 37
Melbourne, FL USA 32901-0037
1-800-442-7747 (1-800-4HARRIS)
Ext. 2573
govcomm.harris.com



Non-Export-Controlled Information

FLITESCENE®

A continuously evolving product, growing and adapting to the changing needs of today's military and civilian agencies.

To learn more about how Harris Corporation is supporting FliteScene®, please visit: flitescene.com

Harris and FliteScene are registered trademarks of Harris Corporation. All other trademarks and tradenames are the property of their respective companies.
© 2014 Harris Corporation 06/14 523087 JLW d0606

harris.com