

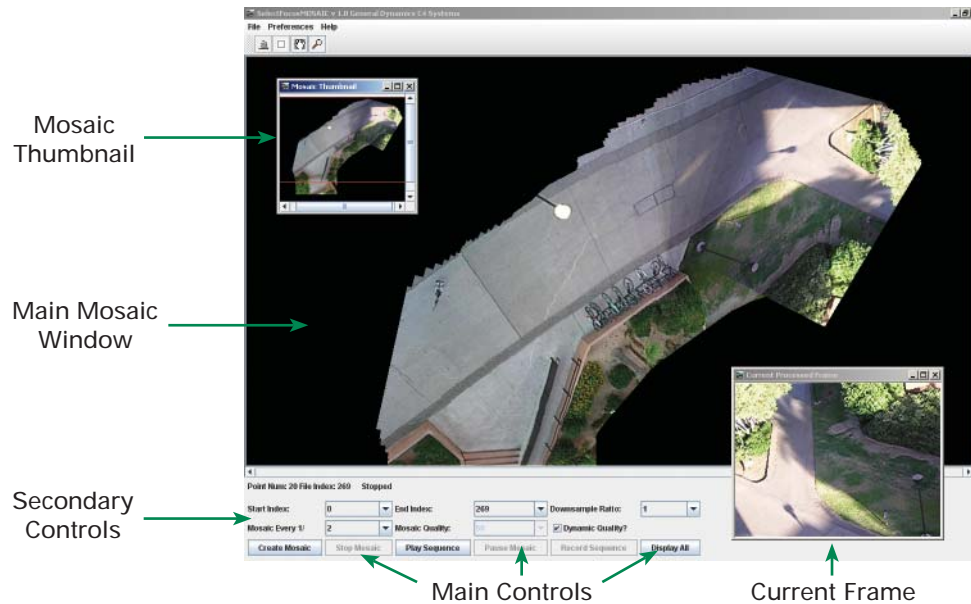
SelectFocusMOSAIC™

Video mosaicking software

As a major provider of services, solutions, and support to U.S. and foreign governments, General Dynamics C4 Systems has developed SelectFocusMOSAIC Video Mosaicking Software for commercial and government users. General Dynamics' SelectFocusMOSAIC Software creates a single "panoramic" image from a video sequence. This functionality merges the area that has been imaged by a moving video camera into a single, large image that displays the entire area simultaneously, providing unprecedented wide-area imaging capability. The mosaicking process effectively reduces the amount of data required to represent the video sequence by several orders of magnitude, while preserving the vast majority of information contained within the video sequence.

Features

- Creates a mosaic image from video data
- Software-only implementation; Windows®/Unix®/Linux compatible
- Completely autonomous operation; no user interaction and no telemetry/database information required
- Operates in near-real-time on pre-stored or live video
- Compensates for camera translation, rotation, and illumination variations
- Intuitive GUI displays and outputs entire mosaic, user-selectable portions, or mosaic thumbnail
- Works with low-quality video sequences in a variety of popular formats (e.g., Motion JPEG, MPEG1, MPEG2, MPEG4, H263, H264, SelectFocusVIDEO)
- Outputs constructed mosaic image in a variety of image formats (e.g., JPEG2000, JPEG, TIFF, GIF, BMP, PNG, PGM, PPM)



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