

# Catalina™ Licensed Features

## KEY FEATURES

- › Baseline
- › Video Transcoding
- › Metadata Transcoding
- › Metadata Guard
- › Catalog and Archive
- › Federation
- › Geospatial Data Export
- › Visual Enhancements
- › On-Screen Metadata Inpainting
- › On-Screen Metadata Redacting
- › On-Screen OCR
- › On-Screen Metadata Burn-In
- › Annotation
- › DCGS Integration Backbone Connector (ITAR)
- › Di2E Search (ITAR)
- › Fire Scout Transcoder (ITAR)
- › Reticle RT
- › Reticle TGT
- › Video Mosaicking
- › 3D Reconstruction
- › Still Image Mosaicking
- › HEVC Codec

## Baseline

This feature is required by all other Catalina licensable features and provides for basic input and output of received video streams. Minimum feature required to start the Catalina server software and provide access to the Catalina SOAP API.

## Video Transcoding

Optional feature enabling all video encoding/decoding features necessary to convert between compression formats, adjust compression quality, adjust bit-rate, selectively drop frames, and modify frame sizes.

## Metadata Transcoding

Optional feature enabling all KLV metadata encoding/decoding features necessary to convert between standards-based metadata types, or add/modify/delete existing metadata fields. Handles STANAG 4609 and MISB standards.

## Metadata Guard

Optional, Javascript-based feature enabling a scriptable media firewall based on the presence and/or contents of MISB metadata.

## Catalog and Archive

Cataloging (indexing) and archiving (storing) motion imagery and other media for retrieval through OGC-compliant services. Supports SQL Server and Postgre SQL databases (licenses not included).

## Federation

Enables single-point search across multiple Catalina Catalog and Archive instances.

## GeoSpatial Data Export

Optional feature exports live platform and frame locations as a network KML. Viewable in Google Earth and other KML-enabled viewing clients.

## Visual Enhancements

Optional feature enabling debanding, dehazing, contrast enhancement, stabilization, and super resolution features. Requires Video Transcoding feature.

## On-Screen Metadata Inpainting

Optional feature obscures on-screen characters using surrounding pixel data. Requires Video Transcoding feature.

## On-Screen Metadata Redacting

Optional feature censors on-screen characters with a specified overlay color. Requires Video Transcoding feature.

## On-Screen OCR

Optional feature converts on-screen characters into MISB-compliant KLV metadata. Pre-defined templates are available upon request and user-defined templates can be authored with this Javascript-based solution. Requires Metadata Transcoding feature.

## On-Screen Metadata Burn-in

Draws frame-based annotation overlays on video from dynamic metadata elements or static entries from user defined templates. Requires Video Transcoding feature.

## Annotation

Enables the association of vector- and text-based annotations to media stored in Catalina. Annotations may have geospatial properties and are retrievable through the Catalina API. Requires Catalog and Archive feature.

## DCGS / DIB Connector (ITAR)

Connects to DoD DIB-enabled architectures and publishes product and collection assets as a fully registered DIB asset. ITAR controlled.

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## DI2E Search (ITAR)

Optional feature enabling Catalina to search Defense Intelligence Information Enterprise (DI2E) nodes. Requires Catalog and Archive feature. ITAR controlled.

## Fire Scout Transcoder (ITAR)

Optional feature enabling conversion from Fire Scout unique KLV metadata to MISB approved formats. Requires Metadata Transcoding. ITAR controlled.

## Reticle Real Time (RT)

Optional feature enabling the Real Time (RT) mode of the Reticle Geo-Registration engine. This mode improves metadata by leveraging low-latency image tracking, sparse 3D modeling, and image-to-image correlation to lock motion imagery to reference imagery and terrain. Generates correlation metadata to quantify accuracy of solution. Includes Reticle Metadata Optimizer.

## Reticle Target (TGT)

Optional feature enabling the Target (TGT) mode of the Reticle Geo-Registration engine. Provides the confidence level of the georegistration for a selected point within Motion Imagery to aide targeting decisions. Includes Reticle MO and RT. Requires TacitView.

## Video Mosaicking

Optional feature generates mosaics from motion imagery in a batch process. Uses geopositioning metadata and image data to determine viable segments of video, and optimizes the output mosaics. Exports images in multiple formats including geospatial.

## 3D Reconstruction

Optional feature enabling the construction of a 3D textured model and point cloud from uncalibrated still images or motion imagery clips. Can optionally use metadata to improve geolocation and scaling of the reconstruction, if available.

## Still Image Mosaicking

Optional feature that builds ortho-image mosaics from a series of related still images. Leverages embedded camera position data (EXIF or an accompanying XML file) to optimize the geospatial accuracy of the ortho-image.

## HEVC Codec

Optional feature processes high-quality HEVC/H.265 formatted MPEG2-TS video files and UDP streams. With Video Transcoding license, optional feature also enables transcoding MPEG2-TS files and UDP streams into HEVC/H.265 format.



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