) CLARITY

CLARITY Software

Key Benefits

- Minimize Manual Processing
- Sensor agnostic software
- Workflow to deliver information earlier
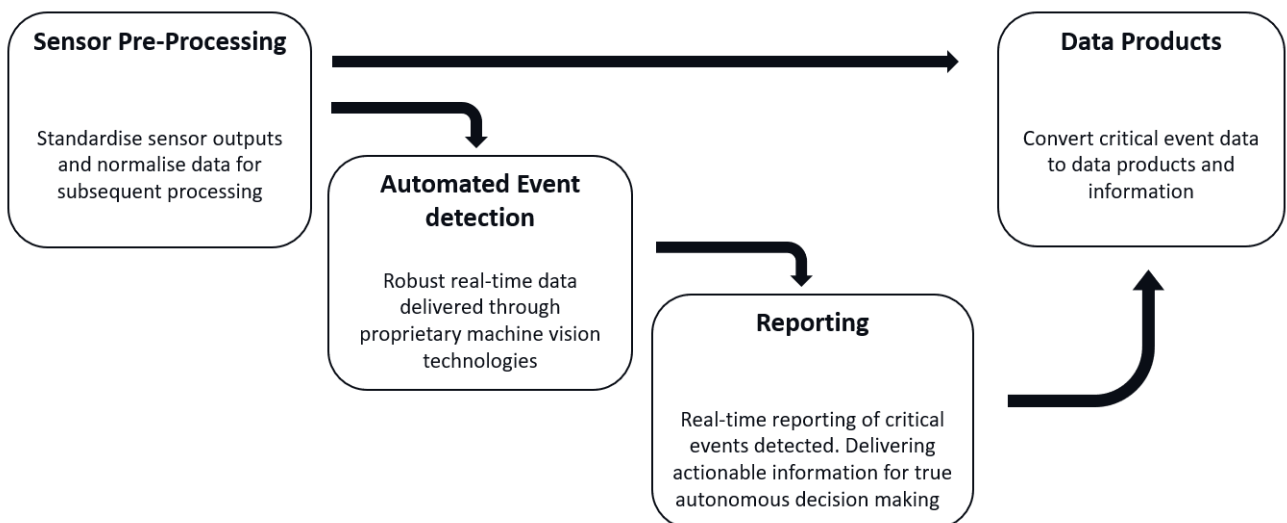- Enable Better Decision Making

Highlights

CLARITY gathers, processes, and delivers data and events in real-time. This enables decision making on the vehicle and delivers data and information more quickly to end users in post process.

Through data processing, event detection and reporting in real-time, CLARITY provides information to enable on-vehicle autonomous decision making, including adjusting vehicle navigation. In-mission sensor data pre-processing provides the data deliverables earlier.

The CLARITY workflow provides the building blocks necessary to deliver solutions at scale and enable true autonomy.

CLARITY is platform agnostic and has multiple deployment options. It can be deployed on the vehicle's payload processor, a surface vessel or on a desktop PC onshore. Windows desktop application and web browser interfaces are available, and data can be delivered in industry standard formats for visualization.

CLARITY Workflow

For more information on our offerings visit our website

CLARITY Software

Key Features

- Real Time Edge Processing
- Auto Image enhancement and correction
- Auto Event Detection
- Automated Reporting
- Critical Information Extraction
- Visual Data Products

Components

	Bundles	
Description	**Clarity Essential**	**Clarity Baseline**
Image Undistort	✔	✔
Image Sharpen	✔	✔
Image Light Correction (Flatfield correction)	✔	✔
Laser filtering and processing (PCP ASCII, PCP Binary, CLP)	✔	✔
World File creation		✔
Image Orthorectification		✔
Laser processing (XYZ, LAS versions 1.2 and 1.4, CXLA)		✔
Colour Laser Point Cloud creation		✔

Software Bundles	Product Code (Annual Licence)	Product Code (Perpetual Licence)	Product Code (Airgapped Licence)
☐ CLARITY Essential	CXCLARITY-EE-O-A	CXCLARITY-EE-O-P	CXCLARITY-EE-A-P
☐ CLARITY Baseline	CXCLARITY-B-O-A	CXCLARITY-B-O-P	CXCLARITY-B-A-P

CLARITY Essential is supplied with Cathx Systems, including Sentry, Hunter II, Vanguard
CLARITY Pre-Processing and Auto-Eventing Components can be executed in real-time

TECHNICAL SPECIFICATIONS

CLARITY

Minimum Hardware requirements to operate CLARITY	Operating System – Windows 10 Processor – i7 @2.8GHZ or higher RAM – 32GB .Net Core 6.0 Installed Bandwidth is dependent on setup. External NAS:

- Capable of supporting read/write bandwidth for all connections
- Bandwidth to support the simultaneous camera writing and CLARITY reading
- Example read/write bandwidth requirement:
- For processing HD image @5fps and UHD images @3fps: ~12MB per sec (assuming JPEG image quality of ~90%)

Information correct as of February 2025.
Technical specifications can change without notice.