

## Perangkat Keras dan Perangkat Lunak (Caris) Pengolahan Data hidrografi

Merk	:	Teledyne Caris
Kelengkapan	:	<ul style="list-style-type: none"> <li>• Hardware key (Dongle USB)</li> <li>• Laptop</li> </ul>
Fungsi	:	Sistem pemroses data hidrografi

### Spesifikasi Caris

#### Lisensi

Lisensi	HIPS and SIPS Professional 11.1
Modul	<ul style="list-style-type: none"> <li>• HIPS Professional</li> <li>• HIPS Essential</li> <li>• SIPS</li> <li>• Engineering Analysis</li> </ul>

### Spesifikasi Umum Caris HIPS dan SIPS

Inputs	
Supported Systems	Single Beam, Multibeam, Side Scan, LiDAR, Synthetic Aperture Sonar, Interferometric
Input Formats	Atlas SDA/ASD/ACF, Bathyswath SXI/SXP/SXR, ChirpScan 3D BRG, CMAX CMX/CM2, Coda, Edgetech Midas/JSF/ EGG260, Eiva SBD, Elac XSE, Furuno, GeoAcoustics RDF/RFF, GSF, Hypack RAW/HSX/HS2, Imagenex D1P/83P/83M, Klein, Kongsberg KMALL/ALL/OUT/RAW/DEPTH, Kraken TIL, LADS CAF, MarineSonics MST, ProSAS IMG, QMIPS DAT, Seabeam, SEG Y Singlebeam, SHOALS OUT/HOF/TOF, SPAWAR DAT, Teledyne TDY, Teledyne Reson S7K/PDS, Winfrog RAW, XTF
Acquisition System Support	Eiva, Hypack, SIS, QPS, PDS2000, native sonar systems

Processing	
Sound Velocity Correction	Multiple Profile Correction Support using Time/Distance/Distance+Time
Vertical Adjustment	Observed/Modelled with tidal network support, GPS Vertical + Separation Model
Sounding Cleaning	Depth/Range Filters, CUBE, CARIS Mira AI, 3D Subset
Gridding	Swath Angle, Uncertainty, CUBE, Shoal Depth True Position
Gridding Bands	Deep, Density, Depth, Mean, Std Deviation, Shoal, Uncertainty, Hypothesis Count, Hypothesis Strength

Multibeam Backscatter	SIPS Backscatter Engine
Side Scan Processing	Layback and slant range corrections
Side Scan Mosaicing	SIPS Sidescan with weighted blending corrections for beam pattern, gain normalization, TVG, despeckle

Visualization	
Background Format Support	DXF/DWG, BSB/KAP, BAG, DGN, DEM, ECW, ESRI ASC/ADF/FLT, ESRI Shape, GRIB, GML, GIF, CHR, Intergraph COT/CRL/RLE/CIT, JPEG/JP2, Mapinfo MIF, SID, NOAA NGS BIN, NTF, NetCDF NC/GMT, PNG, S-57 000, TIF/ TIFF, VPF DHT/LAT/LHT, BMP, Gridded XYZ, OGC WMS/WMTS/WCS, TMS, Kongsberg SIS Grid
2D Visualization	Yes
3D Visualization	Yes
Area Based 3D View	Yes

Geodesy	
Supported Systems	EPSG
Exports	
Full Sounding Export	ASCII, GSF, FAU
Grid Exports	ASCII, CSAR, BAG, GeoTiff, GeoPDF
Imagery Exports	GeoTiff, GeoPDF, JPEG, STL, PNG

### Spesifikasi Laptop

Sistem model	Dell Precision 3541
Sistem Operasi	Windows 10 Pro 64-bit
Processor	Intel Core i7-9850 2.60GHz
Memory	16 GB
Display	NVIDIA Quadro P620, Intel UHD Graphics 630
Storage	PM981a NVMe SED Samsung 512 GB

### Gambar

	
Dongle Caris 11	Laptop Dell Precision 3541