

DEWESoft Software Suite

Real Time Graphic Displays

Advanced Math Processing

Post Mission Analysis

Chapter 10 Storage and more...

PCM
RF
FM
Data Link
Analyzers

**Custom
Telemetry
Solutions**



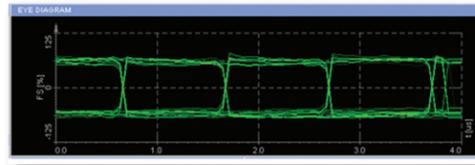
*Software
Solution*

Ulyssix 
Technologies, Inc.
a woman-owned small business

*Telemetry
Ground
Station*

Telemetry Data Processing

- Configurable with up to 4 independent TarsusHS-PCI-01 PCM Processing cards
- User friendly screens for Bit Sync, Frame Sync, Decom, and PCM Simulator setup
- Allows for multiple asynchronous embedded formats, tagged parameters, and frame format identifiers
- Single setup file for all hardware configurations including all user set displays



Eye Pattern Display

Frame Preview Display

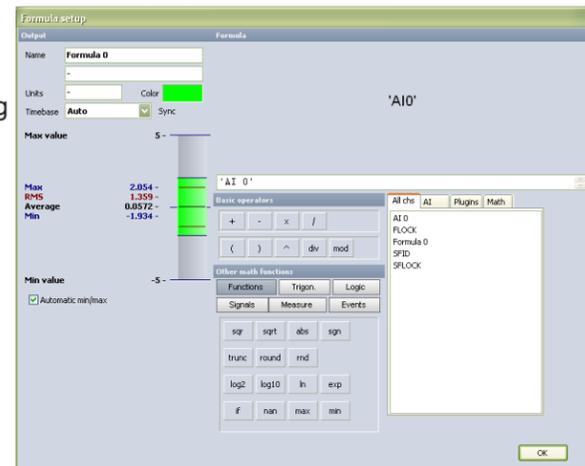
Additional Data Plugin Options

- Video
 - Capable of recording high-speed video from ethernet, USB, or direct hardware real time
 - Post synchronisation of video to data also available
- Analog Data
 - Utilizing Dewetron data acquisition hardware, DEWESoft can process numerous analog channels and/or PCM real time
- GPS
 - Gives ability to bring in GPS time and position real time
- 1553/ARINC429
 - Allows for monitoring of aircraft bus communication



Real Time Math Processing

- Real time Matlab style processing on any data channel within DEWESoft
- Capable of using derived parameters/functions across all plugins or other math functions
- Streamlines FIR and FFT filtering of live data
- During post mission analysis math processing can be recompiled
- 'Shades of Gray vs Time' missed distance calculator plugin available



Real Time Displays

- User defined displays using drop-in style widgets
- All data may be displayed in tabular, strip chart, oscilloscope, FFT spectral form, dials, digital time, bar graphs and other easy to interpret DirectX displays
- Multiple display pages and sub display pages can be custom built for each mission
- No compiling necessary when building or changing displays
- Real time video displays along with GPS map overlays available for real time view



Sample Overview Display

Post Playback Analysis

- Gives user ability to sift through entire recorded mission data while record still recording data
- User can make new display screens and math functions on post mission math
- License not required for any analysis tool, giving the user the ability to perform analysis on any number of computers
- Capable of exporting data into Matlab, Flexpro, Excel, Google Earth and many more

Data Storage

- Stores 100% of processed data digitally to hard drive for analysis
- Capable of storing a raw PCM binary file (.tad) while storing a data analysis file (.d7d)
- Data can be shared/played back on any computer
- IRIG Chapter 10 storage format upgrade available

Additional Capabilities

Network Option

DEWESoft Network option allows complete remote controlled setup as well as forwarding of selected processed data to 'view client' computers via a network connection.

Allows for multiple measurement units to send data on same network to multiple 'view clients'.

IRIG Chapter 10 Plugin

IRIG Chapter10 plugin gives users the ability to record their PCM data directly to the hard drive of the computer in IRIG Chapter 10 format. Then DEWESoft can re-play a Throughput, Packed and Unpacked Chapter 10 file into the DEWESoft Software for processing and display.

DEWESoft also has the capability to broadcast PCM frame data in Chapter 10 ethernet packets from one computer. Then it is able to receive that data on a separate computer for processing and display.

PCM Encoder Plugin

DEWESoft Encoder option allows users to take inputs to MDAQ completion modules and output the measurements in a PCM stream. This feature utilizes the PCM Simulator function of TarsusHS-PCI-01 card to create a user defined PCM stream from analog inputs.



Astro-med Plugin

DEWESoft Astro-med plugin gives users the ability to feed any data acquired by DEWESoft to the Astro-med Everest or Real Chart printers. This is done by Ethernet data packets being sent to a single or multiple Astro-med printer. The GUI interface allows users the ability to remotely setup which channels are displayed depending on the mission.

Specifications subject to change without notice.