

Extension tool for **Heim-Systems FTrans** software: data decoding and parameters extraction from **DATaRec-D®** recorders.

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- The screenshot shows the 'New Frame' dialog box with the following details:
- Name:** New_1
 - Start Step:** 1.1
 - End Step:** 1.2
 - Unit:** 1.0
 - Frame Type:** Incremental Frame
 - Incremental Unit:** 1.0
 - Frame Length:** 1.0

This software tool is an extension for the **Heim-Systems FTrans** package, supporting data decoding and parameters extraction from PCM streams (accomplished to the IRIG-106 standard) and other digital and avionic buses recorded with the Heim-Systems **DATARec®-D** family of recording devices.

Selected parameters can then be saved in three different formats: ASCII, Binary or Famos. All the created files are in the XY form, time information and parameter information are saved as well.

It's possible to check the parity bit of the data, and if a single word is faulty, a single sample is discard.

A complete data check is performed and in case of incoherent data setup are introduced, a report shows the mistake to the user.

The **gle/PDSw** program (Irig-106 version) foresees three different sections, each of them easily accessible through a “tree structure” on the left side of the main window. The *Frame Setup* permits quickly define the PCM map properties, the *Parameter Setup* to select the parameters to be extracted and the *Map Viewer* is very useful tool able to summarize the whole program configuration.

More details are depicted in the following:

Encoder Parameters

General

Num of Minor Frame: 32

Word for Minor Frame: 64

Word Length: 16

Parity: none

Isb: lsb

Export Dir: E:\avon\decoder pcm\data\

Accept Cancel

Sync

Begin End

Auto Barker Code

Value: FE6B2840

Number of bit: 32

FFFF

16

Slid

Enable

Position: 2

Start Value: 0

Stop Value: 31

In this section the main characteristics of the IRIG-106 stream can be defined like the format frame, the word length, the sync words and SFID properties.

