eSCOPE, eSCOPE PRO, & eIGNITION

Release Notes and Revision History:

No further development. Call (505) 265-5077 for support.

09/25/2020 Rev 1.3.7: Final release
- Added new Process Data function that converts PWM waveforms to PWM percentage.
- eIGNTION software now supports new TDMS file format like the eSCOPE.
- Measure & Deep Rec screen now scales better on higher resolution screens.
- Updated default file path location.

08/19/2020: Rev 1.3.6:
o Help files were converted to a format that will not cause issues with virus programs.
o Added cylinder numbers when marking them on the Measure and Deep Rec tab.
o The cylinder grid can be marked with ignition, intake, or exhaust firing orders. This automatically allows you to see where the ignition fire occurred, where the intake pull occurred, and where the exhaust push occurred.

05/06/2020: Rev 1.3.5:
o New default data format for saved files are now TDMS, this allows for saving year, make, model and engine size in the file name from drop down selection as well embedding engine size, transmission, system tested and channel connection information in the saved file.
o AMP Clamp ranges now reflect actual settings of 20A, 60A and 600A
o Functionality has been added where a previously recorded data file in bin, rec, txt or csv format
o can be saved as TDMS with all the added enhancements outlined in the new default data format description.

06/14/2019: Rev 1.3.4:
o Measure & Deep Record has new Frequency Plot option that plots frequency changes over time.
o Measure & Deep Record now calculates Deg instead of Deg/ms
o Measure & Deep Record now adjusts Deg as you move cursors after initially set.
o Measure & Deep Record now adjusts Cylinder Marking as you adjust #Cyls and Offset.
o Measure & Deep Record now sets Offset default to 0.00 to avoid confusion.
o Measure & Deep Record now default binary file names to .rec instead of .bin but both still work the same.

01/31/2019: Rev 1.3.3:
o Added ability to change printer from default and to disable header on print outs
o Added ability to remember a zoom location (Zoom Set) and to return to that zoom location (Zoom Back) on Measure screen
o Added calculator to Measure screen to pop-up Windows Calculator
o Added "RPM" and "deg/ms" indicators that calculate when "Mark Cam Shaft" or "Mark Cylinders" buttons are pressed
o Added option on preferences screen to use thin scope lines

05/15/2018: Rev 1.3.2.
o Added "Show A Timebase Only" button that doubles the size of the "Dual A" graph and hides the "Dual B" graph on the "Dual Scope" tab.

01/09/2018: Rev 1.3.1:

o Major compiler update for more powerful functionality in future updates.
o iEA for eSCOPE Pro now installs with eSCOPE Pro installer.
o Minor enhancements to GUI.

7/13/2016: Rev 1.30:
o New icon that works better with all backgrounds.

6/20/2016: Rev 1.29:
o New Logo and Icon.

6/13/2014: Rev 1.28:
o Setup for 1280x728 screen size default (wide screens). Do not install this update if your screen resolution is less than 1280x728.
o Setup EIgnition to be called from EScope program instead of separate program.
o Added WrafSensor6Wire.exe & VaneAirFlowSensor.exe training videos.
o Added file loaded file name to be displayed on front panel text.
o Added new H20 pressure scaling for 25" H20 Rev2.

2/03/2012: Rev 1.27:
o Added scaling options for new Rev2 versions of Vacuum and 300 PSI pressure sensors.
o Replaced old Cam/Crank sensor waveform library with a new bigger and better library of waveforms. The new library has been extended with more cam shaft & crank shaft correlations. Many of these patterns have #1 injector & #1 ignition coil waveforms as well.

3/24/2011: Rev 1.26:
o Added capability to Zero each channel independently (used when working with pressure transducers and ECOP)
o Added ability to auto adjust window size when increasing for larger screens.
o Added option to print with grey background on graphs to save ink.
o Made scope buffer size a variable that can be adjusted on the File/Preferences pop-up.
o Added ECOP to Range options with the ability to customize the voltage to kV multiplier
o for ECOP channels.
o On Tools Menu, if no other tools are found it will say "No Other Tools Installed" instead of saying nothing.
o Changed the installation directory from c:\Program Files to c:\Automotive Test Solutions to keep
o all ATS programs, settings, and data files in one location that Windows will not prevent access to.

12/23/2009: Rev 1.25:
o Optimized to work better with Windows 7.
o Added "Size to 1024x574 (Netbooks)" option.
o Added Panel Close (X).
o Added error popup for battery low indicator.
o Added digital input code to read battery low signal.
o Added process data routine that allows adding offsets to data.
o Increased Buffer Size.
o Added "Mark Data (Page Up)" to Deep record.
o Changed colors of "Mark Cam Shaft" and "Mark Cylinders" to faint yellow and faint green.

9/23/2007: Rev 1.24:
o Added smoothing routine to Measure & Deep Rec.
o Adding offset to Mark Cylinders for pressure transducer measurements.

o   Modified Deep record save to warn if file saving to already exists.

5/24/2007: Rev 1.23:
o   Fixed problem where Demo Mode would automatically get selected at startup or auto-restart if DAQ board was not seen. Pop-up will now allow user to see error and re-start or select demo mode.
o   Changed Mark Cylinders to be offset -25% of one division for pressure marking. This more accurately divides up the cylinders when using the pressure sensor.
o   Added Demo Mode button/indicator to main tab.
o   Added 1MS/s ranges for EScope Pro.
o   Changed default ranges.

4/25/2007: Rev 1.22:
o   First version to support both the EScope and EScope Pro. Program will automatically detect and setup for correct hardware at startup.
o   Added setup wizard that shows hookup schematics, just-in-time training videos for various sensors and allows setup file selection form tree of sensor/signal types.
o   Added Pressure Sensor Utilities: Automatic scaling for each ATS sensor type, ZERO button, Measure tools for marking cylinders, and +/-5000.0 range setting to cover all sensors.
o   Added ? Help buttons and help text tab for quick access to EScope help. Also changed manual to Flash type.
o   Changed labels on Timing tab to match labels on scope.
o   Added open circuit detection code and indicators that display red borders around CH#s for open circuit.
o   Changed custom setup folder to "SetupsCustom" instead of "Setups". Setups contains setup files that are not to be changed.
o   Added colored text to CH#s on Setup tab.
o   Added Right and Left Tab for Window Sizing
o   Increased chart history from 5k to 10k

5/11/2006: Rev 1.21:
o   First version posted on this update page.