

STATUS 5 screenshot above shows a Logit POD curve.

Designed for NDT technicians to communicate complex data in a simple presentation, STATUS 5 has a user-friendly interface that automatically generates Probability of Detection (POD) curves, optimization plots and summary tables. The software computes thousands of calculations in nanoseconds while providing extensive guidance, allowing users to understand the statistics behind their inspection. STATUS 5 also includes Noise Study tools and Sizing Optimization for ideal instrument calibration.



ES STATUS 5

CHART THE PERCENTAGE AND AMPLITUDE BY LENGTH, HEIGHT OR DEPTH

HELP/ASSISTANT DIALOGS TO ANSWER USER QUESTIONS

ADJUST PARAMETERS OF THRESHOLD, SATURATION AND CONFIDENCE LIMIT TO HELP OPTIMIZE MODELS

The screenshot displays the main software window with several plots and a dialog box. On the left, there are control panels for 'Nordtest', 'POD', and 'Sizing'. The main area contains three 'Threshold Optimization Plots' for different parameters: 'POD', 'a50 (Height)', and 'a90/95 (Height)'. A 'POD Model Recommendation' dialog box is open, showing a table of model fits and a 'Go To LogLog Model' button.

POD Model Recommendation
 Recommend model processes and analyses all available models and recommends the best fit based on Lowest AIC values. Lower AIC values represent a better fit.

Model	AIC	BIC	BIC FIT
â vs. a			
â	696.89	704.85	Very Strong
ln(â)	696.44	704.40	Very Strong
a	740.21	248.17	Very Strong
ln(a)	239.54	247.51	Very Strong
Logit			
a	106.82	112.13	Very Strong
ln(a)	105.11	110.42	Very Strong
Probit			
a	106.96	112.27	Very Strong
ln(a)	105.27	110.58	Very Strong
LogLog			
a	106.67	111.98	Very Strong
ln(a)	104.89	110.20	Very Strong
ClogLog			
a	107.15	112.46	Very Strong
ln(a)	105.57	110.87	Very Strong

LogLog Model with Parameter ln(a) is recommended as it has the lowest AIC value.

Go To LogLog Model Close

INSTANTLY GENERATES POD CURVES USING THE STATISTICAL ANALYSIS METHODS OF Â VS. A, LOGIT, PROBIT, LOGLOG, CLOGLOG AND NORDTEST MODELS

SIZING ACCURACY AND OPTIMIZATION TOOLS CALCULATE FLAW SIZING CAPABILITIES AND PROVIDE ASSISTANCE

NOISE STUDY ALLOWS USERS TO OPTIMIZE INPUT AND COMPENSATE FOR SYSTEM NOISE WITH MINIMAL STATISTICAL KNOWLEDGE

STATUS 5 CALCULATES DATA IN A FLASH AND RECOMMENDS WHICH MODEL TO USE, BASED ON THE LOWEST AKAIKE INFORMATION CRITERION (AIC) VALUE

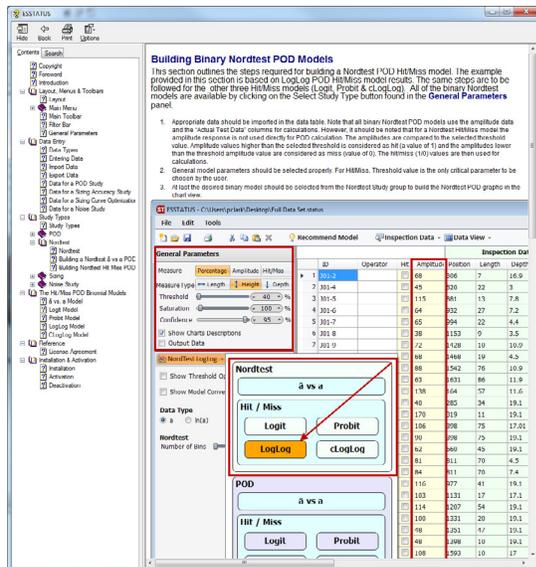
CHARTS ARE CLEARLY SUMMARIZED WITH A DESCRIPTION

For more information visit:
www.eclipsescientific.com/status.html

A RELIABILITY ASSESSMENT TOOL FOR NDT INSPECTION SYSTEMS

Overview

- STATUS 5 is a convenient NDT tool for assessing the efficiency and reliability of NDT techniques and evaluating operator performance.
- The software generates Probability of Detection (POD) curves for all NDE systems, based on statistical analysis of data imported by the user.
- STATUS 5's Sizing Accuracy study assists the user's NDT technique by comparing actual flaw sizes, reported after destructive testing, to the user's flaw sizing capability.
- The Sizing Optimization tool provides guidance to optimize calibration curves implemented from the acquisition system and increase the sizing accuracy based on your specifications.



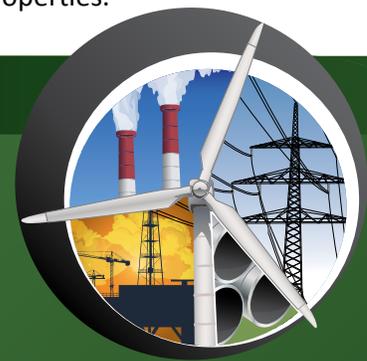
Help Dialog screenshot

Major Advantages

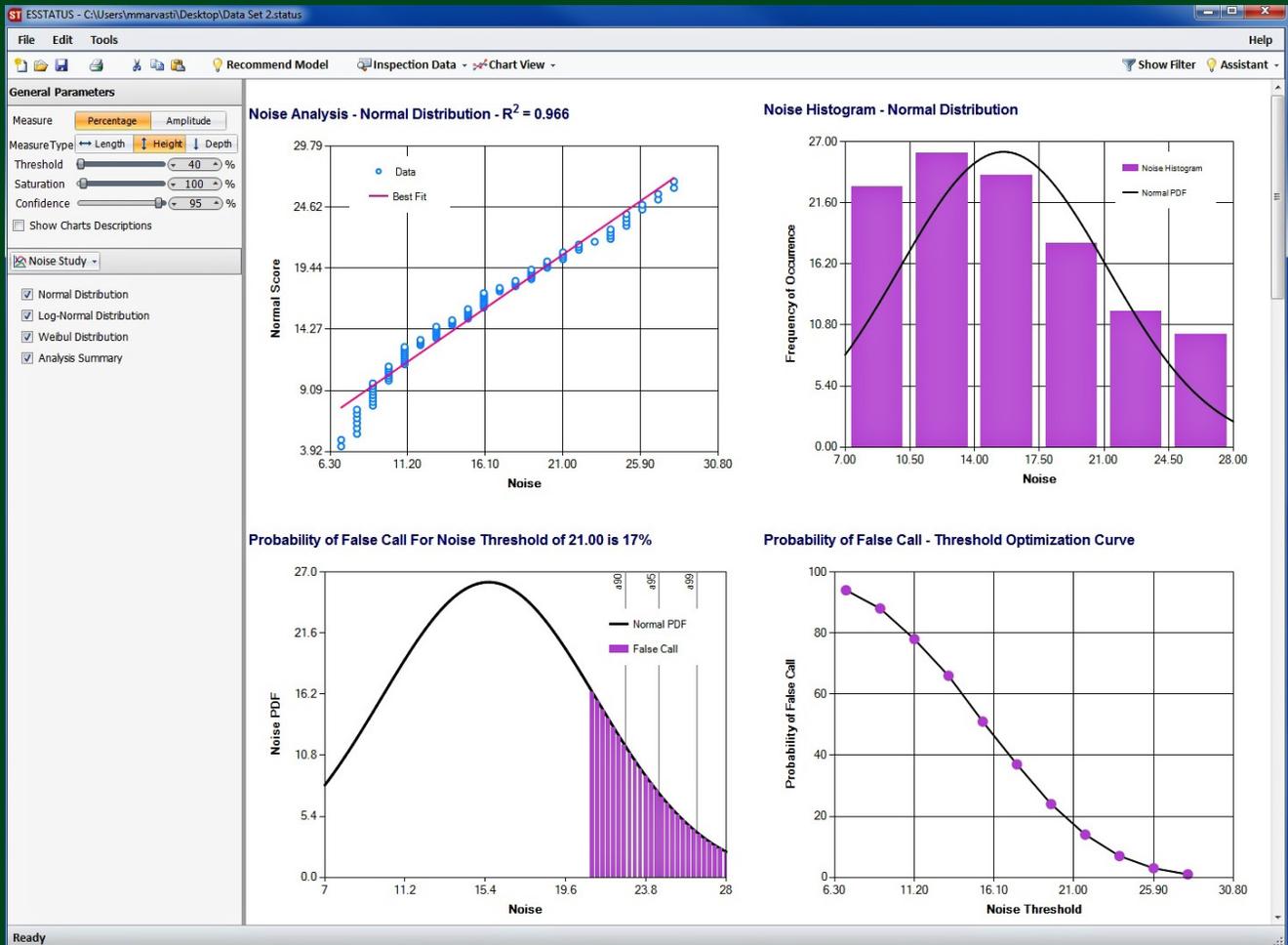
- User-friendly interface with a highly visualized presentation.
- Facilitates quick importing/exporting of Excel documents or manual data entry.
- Fast and intuitive to use with extensive help and guidance, tailored for operators with a minimal mathematical background and statistical knowledge.
- Five statistical models available for POD curve generation (Hit vs. a, Logit, Probit, LogLog and CLogLog), including an automated model recommendation based on the most efficient model recommendation based on the most efficient POD curve using the operators imported data.
- Noise Study and Threshold Optimization tools efficiently adjust POD model inputs based on inspection system properties.

STATISTICAL CONSULTING SERVICE

Our statisticians listen to your inspection specifications and provide advice and guidance tailored to your needs. We use STATUS 5 to generate an essential, detailed report containing graphical and statistical information prior to your inspection plan. To learn more about our services call 519-886-6717 or email services@eclipsescientific.com.



ES SERVICES



This Noise Study screenshot highlights Noise Analysis and Probability of False Call.

- ✓ **POD studies for technique and procedure qualification**
- ✓ **NDT analysis tool for users with minimal statistical knowledge**
- ✓ **Evaluation of NDT personnel's performance on specific inspection techniques**
- ✓ **Recommended POD models from over 12 choices for quick result plotting and reporting**
- ✓ **Provides instantaneous live updates to reports as you modify or add to the data set**
- ✓ **Not just a tool for NDT companies – can be used for any statistical data set**



1-519-372-1831

www.eclipsescientific.com
sales@eclipsescientific.com