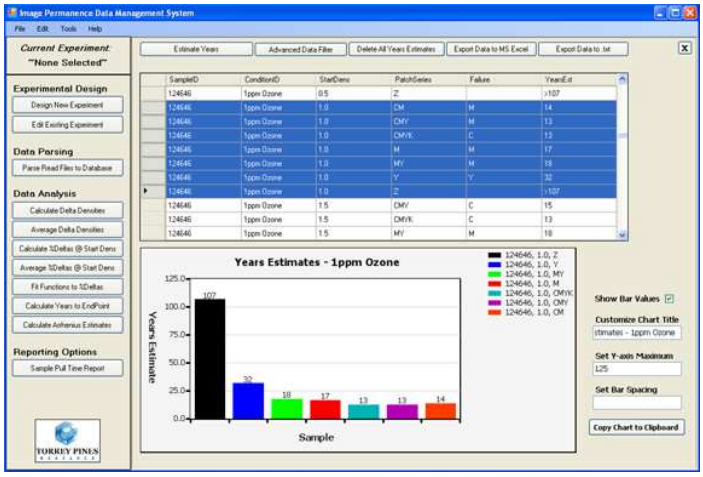
TORREY PINES
RESEARCH

iP-ANALYSIS

TPR's Image Permanence Data Management System



Torrey Pines Research (TPR) has developed an easy-to-use database management system that provides robust capabilities in data handling, manipulation, and analysis for labs and engineers. The initial version of the software is intended to be used for studying and analyzing photographic image permanence data. It has been designed by users of software packages that were either general purpose data calculators or specialized laboratory programs. Such software has been the norm in collecting, analyzing, and sharing image permanence data. Sharing data between such generalized programs often leads to constant data handling, corruption, and redundancy.

iP-ANALYSIS interfaces cleanly with existing lab software and instruments to collect and access technical data such as fade test target readings. The software uses an intuitive Windows®-based user interface to quickly and easily manage, evaluate, analyze, and output information from the system. iP-ANALYSIS is based on the same software used by TPR in its own image permanence lab work, a field in which TPR is a recognized industry leader.

FEATURES AND FUNCTIONS

The following functions are included in the Basic version of the package:

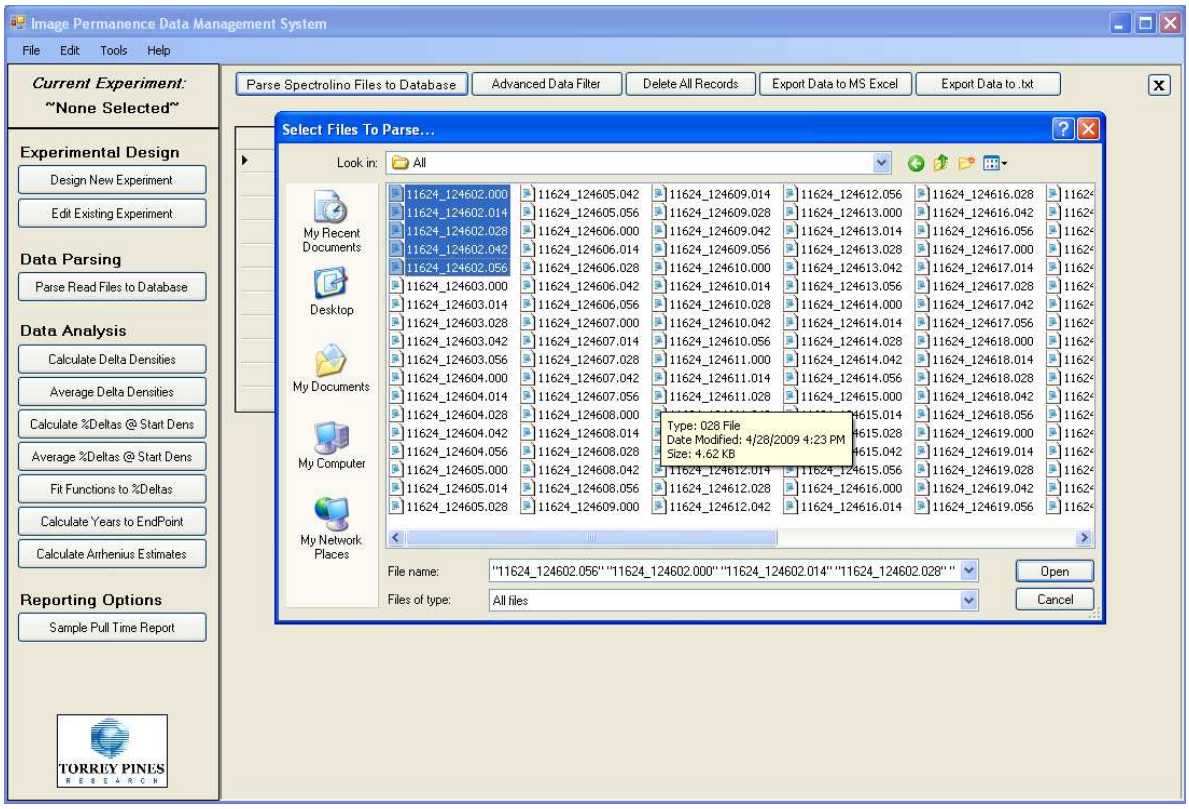
- Import: import data streams into a SQL database from external sources such as spectrophotometers, Microsoft Excel®, and text/flat files;
- Calculate: Calculates Delta Density, Percent Delta Density, Replicate Averaging, and Linear and Logarithmic Function Fitting;
- Interpolate: Create data from adjacent data streams so that exact values can be analyzed and projected;
- Enter: enter specific criteria, like Endpoints and Environmental Assumptions, against which the data can be analyzed;
- Analyze: Use the specific criteria to assess projected print life;
- Graph and Chart: use rapid selection, filtering, and clear handling options to very quickly present and assess data; keep the graphs and charts within iP-ANALYSIS or use iP-ANALYSIS' powerful capabilities to do the creation and then send the graphics with or without data to others, using the Export function;
- Export: write files out to MS Excel®, Notepad LIMS software, and other programs using standard interface protocols and formats;

BENEFITS OF iP-ANALYSIS

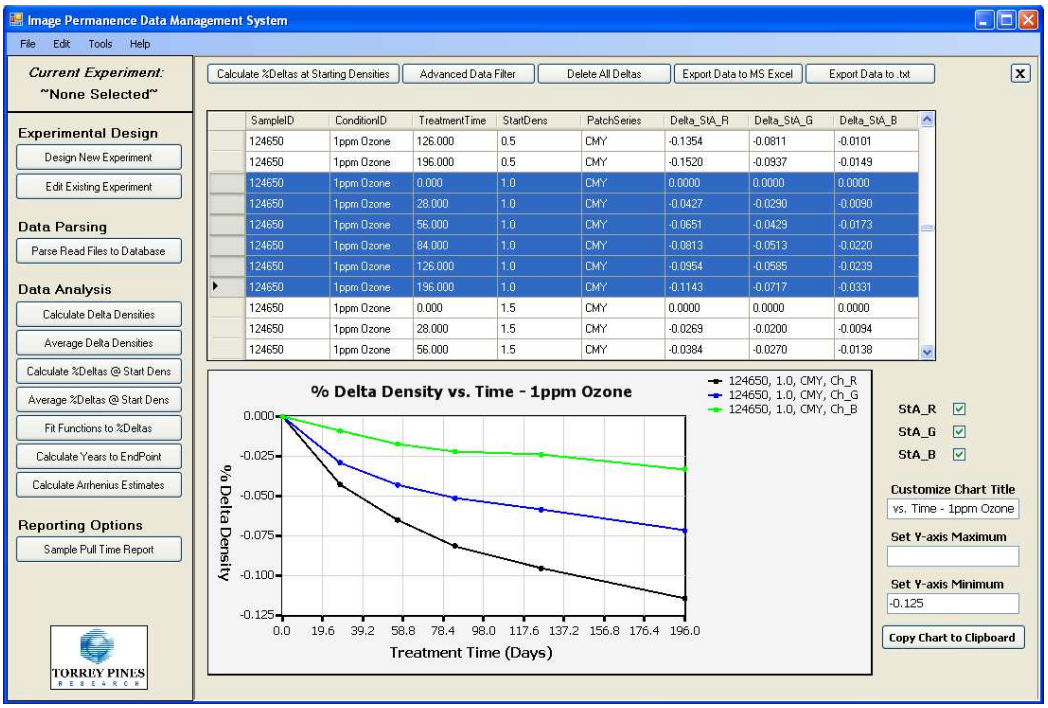
- ✓ iP-ANALYSIS is easy to use and requires no formal training;
- ✓ Chart and graph in iP-ANALYSIS extremely quickly-- it contains a wide variety of filtering, formatting and customization options;
- ✓ Preserve data integrity as there is no redundancy or transposition;
- ✓ Assure ease-of-use and confidence in results once data is in the iP-ANALYSIS environment;
- ✓ TPR supports and builds iP-ANALYSIS on top of many years of image permanence and imaging industry experience, assuring robust and reliable analysis.

ABOUT THE SOFTWARE: CAPABILITIES

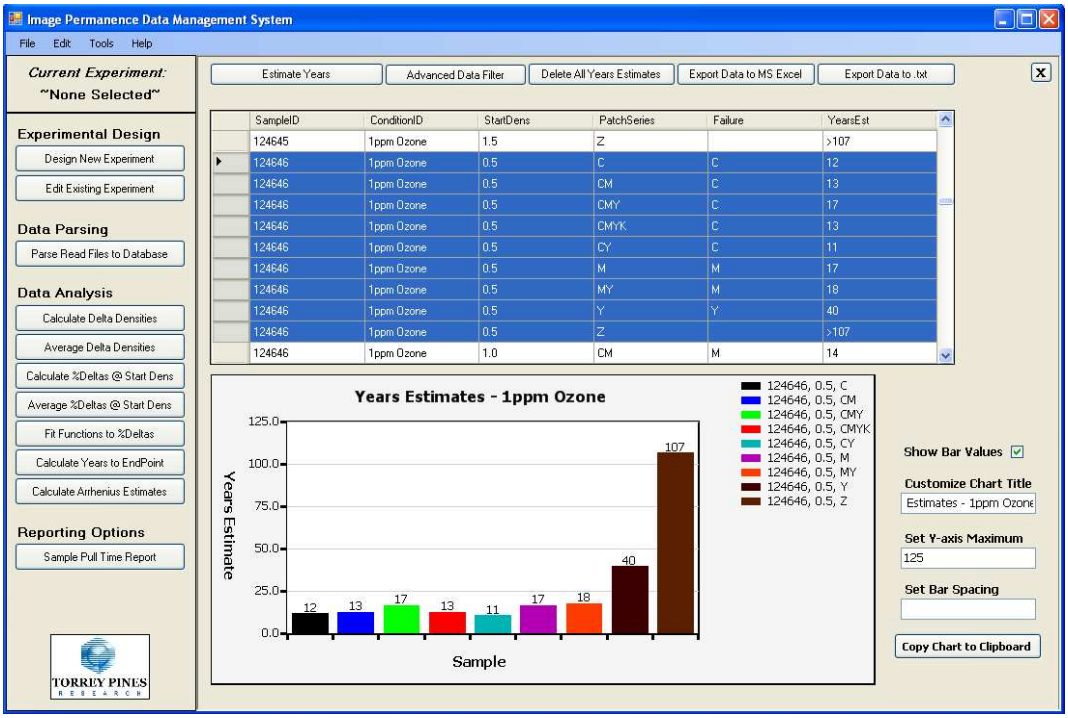
A major benefit of the iP-ANALYSIS software is the intuitive and powerful means by which a user may select information for analysis and parse data. Easy to follow menu buttons guide the user through file selection for analysis and quickly move the desired information in to the software's operating space. It's fast and easy.



Once the data files are loaded into iP-ANALYSIS, commonly performed functions are easy. iP-ANALYSIS allows user-selectable test data for operations such as graphing, as shown below, where the user has chosen to graph % Delta Density vs. Time.



Other graphing functions, such as showing years estimates, can also be done in the same fashion. It is fast, easy, and the results can be shared with others by copying and pasting into other applications such as MS-Excel and MS-Word, as well as other laboratory software.



SYSTEM REQUIREMENTS

The software runs on Windows® computers, with easy installation and low space requirements as follows:

Component	Requirement
Operating System	Microsoft Windows XP or later, with the Microsoft .NET 3.5 Framework installed
Processor	Processor type: • Pentium III-compatible processor or faster Processor speed: • Minimum: 400 MHz • Recommended: 1.0 GHz or faster
Memory	RAM: • Minimum: 256 MB or more • Maximum: Operating system maximum Hard Disk: • Minimum: 500 MB for .NET Framework and application files
Video	1280x800 SVGA

ABOUT TORREY PINES RESEARCH

TPR is a leading product development and technology consulting company serving the worldwide digital printing and imaging industries since 1986. TPR's expertise includes new product and equipment design, product development, multi-disciplined systems integration, product manufacturing, testing, and problem solving. TPR uniquely extends these capabilities to other applications requiring liquid and/or dry-powder deposition technologies.

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