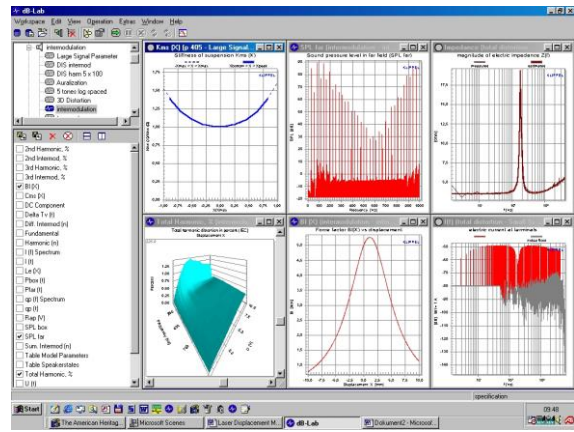


FEATURES

- Project-oriented Microsoft Windows application
- Hosts measurement and simulation modules
- Common interface for all modules
- HTML report generation
- Editable templates for print-out and documents
- Keeps all your data in one place
- Scalable database for setups and results
- Database organizer integrated in Windows Explorer
- True plug and play via USB interface
- On-line help
- Export of data and graphics



The dB-Lab is the general frame for the computer software modules of the Klippel R&D System. It gives a simple and common environment to control all measurements and simulations and to visualize, store and handle even large amounts of data.

All of the user input, setup parameters and results are stored in a database which makes it easy to share, transfer and access information. dB-Lab provides convenient tools to organize and maintain your data.

The work within dB-Lab is project oriented. The user may conveniently organize his projects in different folders. Customized setups can be saved as templates for other measurements.

The report generator of dB-Lab produces HTML-files that summarize the measurement results in an optimal way. Several standard templates for report generation are provided. They can easily be modified using a web-site editor.

A dB-Lab lite version with basic functionality is available for free, and can be used as free result viewer.

Article Number:	1000-100, 1000-110
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System Requirements

	Minimum System Configuration
Personal computer	Pentium III / 500 MHz (Pentium IV / 1GHz or equivalent for processing-intensive tasks)
RAM	512 MB (1 GB for processing-intensive tasks)
Disk space	250 MB for installation + additional space for measurement results
Screen Resolution	1024 x 768 / 256 colors
Interface	USB
Operating System	Microsoft Windows XP Microsoft Windows 7 Microsoft Windows 8
Printer	Microsoft Windows compatible printer
	Microsoft Internet Explorer 5.0 or above
Installation Medium	CD-ROM or download from Website

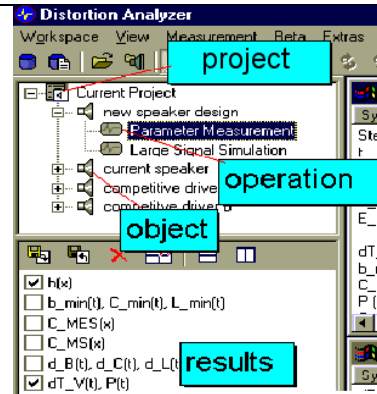
Desktop

Paradigm

The desktop of dB-Lab provides general elements (workspace, operation, objects and results), which enables the user to work efficiently.

1. Open your workspace (Project)
2. Create an object to represent the DUT
3. Assign operations (Measurements) to the object
4. Execute operations
5. View, print or export your results

All settings, measurement data and results are stored in a database automatically.



Project

The **project** is the basis and environment for your work. It allows comparing and viewing multiple objects, even from different folders by using shortcuts.

Objects

Any device under test (DUT) such as transducer or electrical circuit is represented within dB-Lab as an **object** and saved under a user-defined name in the database. This object holds all results of operations (measurements) applied to this DUT. The user may save the object as template and use the particular setup for the measurement of other DUTs.

Operation

The term **operation** stays for any kind of measurement, analysis, simulation, and calibration or data manipulation to produce, compare, reduce or display data. The operation is applied to a given object and produces results as an output. Most of the measurements require no input data but most of the simulations and data manipulations use the results of other operations as input. The customized operation may be saved as a template to apply all of the setup parameters to other measurements.

Result

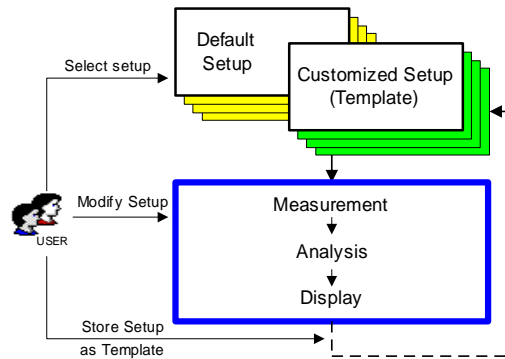
The **result** is the output of an operation usually in numerical or graphical form. This information may be displayed on the computer, stored in a report file for printing, or exported to other operations and to external data-files (post processing e.g. as Matlab).

Customizing Setup Parameters (R&D System only)

Default Setup Parameters

Each component (software module, result window) uses setup parameters which describe essential a priori information (user input), conditions of the measurement and the kind of graphical presentation of the results. For new objects and operations, the user can choose between the default setup, one of the predefined setup templates, or a user defined setup template.

Save your personal setup



The advanced user will use most of the time a limited number of favorite settings. Using dB-Lab it is very easy to create customized operations and objects. The user may save a single operation (measurement or simulation) or an object (a collection of measurements assigned to a DUT) as templates. Creating a new object the user may choose between the default setting and the customized setup (template).

Operation Templates

Any basic measurement (LSI, LMP, Aura, ...) or simulation (SIM) may be customized by modifying the setup parameters and saving it as template. Appending a new operation to an object the user can use the default setup or the customized setup.

Object Templates

Applying different measurements to one DUT it is convenient to use object templates. Creating a new object from scratch the user will find a list of all operations of the Klippel R&D System installed on his computer. The user may delete or insert operations according to his particular tasks. After customizing parameters in the input property pages or the result windows the user may save the complete object as a template under a user-defined name. Generating a new object the user may choose between the default setup and the customized setup.

Data base

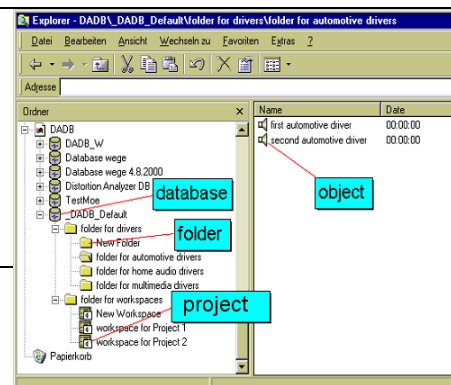
Engine Microsoft Jet Data base

Maintenance Folder Organizer in dB-Lab, external DBService compression tool

Object dB-Lab gives each **object** an unique identifier to store the set-up information and the data related to the object within the database. The user should give each object a distinct name. Comments can be added to describe the object.

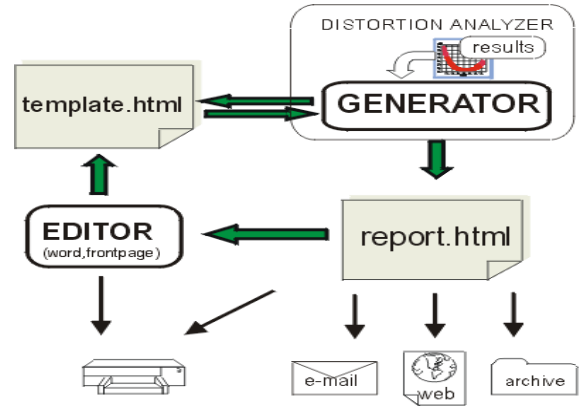
Folder The database uses the common concept of folders to hold your data.

A basic folder organizer within the dB-Lab software or the convenient Windows Explorer functionality allows the user to move, delete and copy the objects and folders within the folder structure.



Projects	<p>Each folder can hold a project, containing both one or more objects and shortcuts as references to objects from other folders.</p> <p>So all objects that are currently of interest can be grouped virtually in one folder to organize project work. Objects may be shared between different projects.</p>
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Report System	
Report	<p>Each report is a file in HTML-format (Hypertext Markup Language) and a set of graphic files in JPEG- or PNG-format stored in a subdirectory. It comprises the result of the operation (measurement, simulation)</p> <p>Additional information such as names, comments, logo, etc. can be included in custom report templates.</p> <p>The user may print this file directly or edit this file (change format, add comments). Finally it may be used as a template for new reports.</p>
Results	<p>The numerical results are organized in tables. The graphical results are stored in an external JPEG- or PNG files and linked to the report file.</p>
Generator	<p>The generator produces reports by using the current results (tables, graphics) of the selected operation and a standard or customized report template. The user may add or remove any result from the report.</p>
Template	<p>Any existing report can be used as a template for new reports. A variety of standard templates are provided for each measurement giving some examples how to use the report system.</p>
Editor	<p>A standard HTML-editor (e.g. Front-Page, Word, ...) can be used for post-processing, file format conversion and for creating new templates that satisfy personal needs and reflect corporate identity (reloading in dB-Lab is not possible in dB-Lab Standard).</p>



Product or brand names are trademarks or registered trademarks of their respective holders.

Patents	
Germany	102007005070, 1020120202717, 102014005381.4, 19714199, 4111884.7, 4336608.2, 43340407, 4332804.0, 102013012811, 102013021599.4, 102013000684, 102009033614, 102009033614, P10214407
USA	8,078,433; 14/436,222; 14/683,351; 6,058,195; 5,438,625; 6005952; 5.577.126; 5815585; 5,528,695; 14/499,379; 577,604; 8,964,996; 14/152,556; 12/819,455; 12/819,455; 7,221,167
China	ZL200810092055.4; 201380054458.9; 201510172626.5; 981062849; 2014103769646; 2014107954970; 2014100795121; 201010228820.8; 201010228820.8; 03108708.6
Japan	5364271; 2972708
Europe	13786635.6; 0508392A2
Taiwan	102137485
India	844/MUMNP/2015
GB	2324888
HongKong	1020403
Korea	1020140095591

Find explanations for symbols at <http://www.klippel.de/know-how/literature.html>

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