Light Lib Products 1.31 for Windows

Dear Light Lib User,

Thank you for purchasing or evaluating a Light Lib product for Windows.

In order for us to keep you informed about Light Lib product developments, we need to know who you are, and the only way we'll know that is if you register your product with us! In addition to receiving maintenance releases and upgrades, we have lots of exciting things planned which we're sure that you'll want to know about.

Please take a few minutes to register your Light Lib product by completing your registration card and faxing or mailing it back to us. If you have Internet access, you may prefer to take advantage of our online product registration at our web site (http://www.dfl.com). Without the information found on this registration card, we are unable to send important updates to you.

The evaluation editions of our products are full featured! They contain sample source code and complete Windows HLP file documentation.

Evaluation limitations
The following are the limitations which apply when evaluating a Light Lib product :

On the first call to a Light Lib Images, Light Lib Business or Light Lib Multimedia function, you will receive a first "Eval DFL" dialog box. If you are running a multiple products demo, you will receive one dialog box per evaluation product.
i.e. : If you are a registered user for Light Lib Images and run the DemoAll under CA-Visual Objects, you will receive two information boxes; one for Light Lib Business and one for Light Lib Multimedia.

No more boxes will appear for 20 minutes after the initial box. Then from 20 minutes to 60 minutes, a box will be displayed every 5 minutes. After one hour of evaluation a box will be displayed every minute.

SETUP.EXE will automatically install all Light Lib products for all languages onto your system :

The current Light Lib product offering is as follows:

Light Lib Product	Languages Supported
Light Lib Images (LLI)	Borland-Delphi, CA-Visual Objects, MS-Visual Basic, MS-Visual C++
Light Lib Business (LLB)	Borland-Delphi, CA-Visual Objects
Light Lib Multimedia (LLM)	CA-Visual Objects, MS-Visual C++

We thank you for your support,
The DFL Team

Light Lib Products

There are currently three Light Lib products available for Windows. Each one is unique and does not rely on any of the other Light Lib products to work. There is some advanced and sophisticated technology which is shared between the products and which will allow DFL to create innovative and new products in the near future. This common Light Lib technology is described later in the **Light Lib Object** section in this file. The following briefly explains the current Light Lib products available for Windows.

Light Lib Images (LLI) provides your Windows applications with advanced document and image management capabilities. Among many other features, it provides your applications with the ability to scan, save, load, print, convert and copy images. LLI is fully TWAIN compliant and the integration is seamless. Optimized Binary Large Object (BLOB) support makes this library ideal for record-level document management and for Client/Server applications. File formats supported are: BMP, GIF, PCX, PNG, TIF, TGA and JPG.

Light Lib Business (LLB) provides your Windows applications with advanced graphing and charting capabilities. You will be able to display non-static bar, pie, line, stacked and stock graphs in your applications. In addition, each column in a graph can maintain its own type of graph. Your end users will have the ability to dynamically browse any graph because graph sizing and scaling is automatically managed by LLB. An advanced mouse-vector engine accurately determines and isolates which part of a graph get selected and then properly dispatches the selected items in the form of objects! Default dialogs are provided which give end-users the ability to dynamically change the settings of any part of the graph.

Light Lib Multimedia (LLM) provides your Windows applications with advanced Audio and Video capabilities. Since LLM uses proven Light Lib Binary Large OBject (BLOB) technology, Audio (WAV), Video (AVI) and Midi (MID) data is able to be managed as BLOB data. This is very important since BLOB data is able to be stored in various popular data file formats such as FlexFile file, Oracle databases etc. The ability to store, create and retrieve AVI and WAV files as BLOBs provides the power to build sophisticated applications and provides the needed robustness in Client/Server environments. For example, a voice mail system which can be used in large corporate offices or a medical application which stores video of actual surgeries and records the operation's procedures. These real life applications are now within reach using Light Lib Multimedia.

Installation

Depending on what was purchased, all Light Lib products are installed as either full editions or as evaluation editions by default. In other words, if Light Lib Images was the only product purchased, evaluation editions of Light Lib Business and Light Lib Multimedia would get installed. Either way, you end up with all Light Lib products!

We do this to provide you with information on all of our Light Lib products and to save you valuable time in getting evaluation copies of our other products. If the full version of another Light Lib product is purchased and installed in the future, the Light Lib Smart Serialization System will properly detect and overwrite previous evaluation editions without disturbing existing full product editions.

After the installation of any Light Lib product, a \LIGHTLIB sub-directory will be created containing all three Light Lib products. The LIGHTLIB sub-directory structure is as follows :

\LIGHTLIB	Root directory for all Light Lib products
\BORLAND\DELPHI16	Borland Delphi16 files
\LLBDEMO	Light Lib Business for Delphi16 demo
\LLIDEMO	Light Lib Images for Delphi16 demo
\ORDER	Borland Delphi sample that permits you to order Light Lib products
\SAMPLES	Borland Delphi16 sample program
\DRILL	Borland Delphi16 advance peek at sample using Light Lib Business
\PROJMGR	Borland Delphi16 sample program to demonstrate the gantt graph of the Light Lib Business
\VCL	Borland Delphi16
\LIB	Borland Delphi16 VCL units (*.DCU)
\SOURCE	Borland Delphi16 VCL source code files (*.PAS)
\BORLAND\DELPHI32	Borland Delphi32 files
\LLBDEMO	Light Lib Business for Delphi32 demo
\LLIDEMO	Light Lib Images for Delphi32 demo
\VCL	Borland Delphi32
\LIB	Borland Delphi32 VCL units (*.DCU)
\SOURCE	Borland Delphi32 VCL source code files (*.PAS)
\CAVO	CA-Visual Objects files
\DATA	Sample data
\HELP	Help files for all Light Lib products
\MSVB	Microsoft Visual Basic files
\MSVC	Microsoft Visual C++ files
\INCLUDE	Include files
\LIB	Library files
\MFC	Microsoft Visual C++ files
\LLBDEMO	Light Lib Business for MS-Visual C++ demo (32 bit)
\RES	Light Lib Business for MS-Visual C++ resources (32 bit)
\LLIDEMO	Light Lib Images for MS-Visual C++ demo (32 bit)
\RES	Light Lib Images for MS-Visual C++ resources (32 bit)
\LLMDEMO	Light Lib Multimedia for MS-Visual C++ demo (32 bit)
\RES	Light Lib Multimedia for MS-Visual C++ resources (32 bit)
\MSVFP	Microsoft Visual FoxPro files
\OCX	OCX files
\SAMPLES	Sample Light Lib program
\SYSTEM	16 bit and 32 bit DLLs for all Light Lib products

DLLs and Windows

Installation of any Light Lib product automatically copies several DLLs and VBXs to your \WINDOWS\ SYSTEM sub-directory. The Light Lib DLL files all have "LL" as a prefix.

Language Extensions

All Light Lib products are compatible with any Windows programming language able to call a DLL or access a VBX and that has support for callback functions. In addition to this we have provided extensive native language support for several popular languages with plans to extend the following list in the near future. Borland Delphi, CA-Visual Objects, Microsoft Visual Basic and Microsoft Visual C++ are currently supported.

Before using any Light Lib product, please review the individual language WRI files found in each language sub-directory (\CAVO, \DELPHI, \MSVB and \MSVC) for specific language installation and implementation information.

Use of LZW compression with Light Lib Images

When using GIF or TIFF files, compressed with LZW compression, the following error will occur:

Error : 138B LZW NOT LICENCED

LZW is copyrighted by Unisys. You will need to follow the procedure below in order to legally use LZW.

How to sign a license with Unisys
Unisys does not require licensing, or fees to be paid, for non-commercial, non-profit GIF/TIFF-based applications, including those for use on the on-line services. For obtaining a license under the Unisys patent for use of LZW compression in GIF/TIFF-based software intended for commercial or for-profit uses please contact:

Patent information Contact
Welch Patent Licensing Department
Unisys Mail Stop
C1SW19 P.O. Box 500
Blue Bell, PA, 19424
USA

Or via Internet, send to LZW_INFO@UNISYS.COM, or use a form available on the Unisys Web Server to request follow-up information.

How DFL provides LZW support
The signed portion of the license with Unisys needs to be faxed to your nearest DFL office along with your registered Light Lib serial number. DFL will then provide a code, based on your serial number, which will enable Unisys LZW support. This LZW code will need to be put in the Light Lib Images source code. Search for the word "Unisys" in the Light Lib Images source code and follow the instructions you find.

Light Lib Objects

For the most part, you should not be concerned about how Light Lib Objects works or how to access it. We have provided this section merely as information.

Light Lib Objects (LLO) is not another Light Lib product. LLO performs error trapping, manages memory allocation and the proper creation and deletion of all objects within the Light Lib DLLs themselves. Every Light Lib product for Windows relies on this support DLL. Please review the specific language implementation carefully because the usage of LLO differs slightly from language to language.

LLO provides object-oriented technology to languages that do not support object-oriented programming. In addition to standard OOP features such as inheritance, polymorphism, and encapsulation, LLO implements advanced OOP concepts such as inheriting from the owner class which is not an objects immediate parent! The following is an example :

ABSTRACT Class - GRAPH Class

ABSTRACT Class - COLUMN Class

There is no relationship between the GRAPH Class and the COLUMN Class. However, if a method or property is not available in an instance of the COLUMN Class, LLO will not use the ABSTRACT parent class definition, which is how OOP systems work today. Instead, LLO is able to use the class Owner's definition which could, for example, be a GRAPH.

Other advanced OOP features supported is dynamic class creation, BLOB aggregation and much more. To give you an idea of LLO's flexibility and power, LLO has allowed us to use the exact same code base found in LLB for Windows to create LLB for DOS. LLO has given us the ability to port our Windows libraries down to DOS!

DFL Online

DFL provides developers with several ways to access support. We encourage you to fax your technical support questions to your designated DFL office.

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