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Intelligent Lighting Controls, Inc.

Lighting Control Software for LightMaster Panels in Stand Alone Applications



LIGH Aster Pro Software

ENERGY SAVING LIGHTING CONTROLS

Includes setup, installation and programming LightMaster Pro software for the ILC LightMaster lighting controller in stand alone applications

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Lighting Control Software for LightMaster Panels in Stand Alone Applications



Version 1C 1/1/05



INTELLIGENT LIGHTING CONTROLS, INC.

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LIGHT Pro Master

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LIGHT Pro Master

Section 1– Program Description and Installation





Section 1 Program Description and Installation

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1.0 Overview

LightMaster Pro is a windows based lighting control software package designed for a stand alone LightMaster lighting control panel. Using point and click commands you can quickly and easily program LightMaster lighting controllers for any required application, obtain current I/O status and upload /download operating parameters between the controller and your personal computer (PC).

You can program a single controller from your PC via RS232 connection to the controller serial port. You can also program offsite via standard phone lines and modem (if the LightMaster is equipped with an onboard modem – requires a direct analog telephone line.)

1.1 Installation

This section explaind how to install LightMaster Pro on your computer and outlines what you should and can do after the installation is complete. Most customers have LightMaster Pro installed on their computer at the factory or by an ILC field service technician during the system start-up. If you have elected to install the software yourself, follow these instructions.

Minimum System Requirements

- IBM compatible PC
- Pentium 4, 1.6GHz or greater
- 1 RS232 serial port
- CD-R drive
- Windows 2000, XP
- 100 MB Free Space
- 512 MB RAM
- SVGA monitor- 1024 x 768 recommended
- Mouse & keyboard

Performing the Installation

NOTE: You may need Administrator's privilages to install the software. Load the CD disk containing LightMaster Pro into your computer's CD drive. Exit any open applications and temporarily disable virus protection software.

- Go to RUN from the START menu on your computer. Click BROWSE, navigate to your CD drive and select Setup for LightMaster Pro.
- 2. Follow the directions on the screen to complete the installation.
- 3. Proceed to Starting LightMaster Pro.

Troubleshooting

If LightMaster Pro installation fails, reboot and re-install the software. Call ILC Technical Support for further assistance (1-952-829-1900). Please have your system information ready.

1.2 Starting LightMaster Pro

To Start LightMaster Pro, "double click" on the ILC LightMaster Icon. The home screen shown in Figure 1-1 will appear.

1.3 Home Screen Menu Bar Options

The menu bar across the top of the screen, offers the following options (point & click on the option you want to invoke):

- File Use FILE to create a new file, open, save current system entries/parameters to your hard drive, and to exit the program.
- **Connect** Use to connect your PC to the lighting controller. You can set the system clock, retrieve data, issue commands and program parameters on-line via Connect.
- Setup permits you to define the number of I/O cards and types of optional add-on modules the LightMaster is equipped with.
- Edit enter LightMaster's operational parameters
- **Document** This feature allows you to organize and manipulate data for importing into other data based and spreadsheet programs.
- About displays the Home screen and the software revision level and the ILC Corp. 800 number.

LIGHT Master

1.4 Edit Options

The edit options offered on the home screen are:

- **Relay Outputs** use this option to check relay/relay group status, control relay/relay groups from your PC and define certain relay parameters: for example, whether a relay is to be subject to a blink alert.
- Switch Inputs use this option to check local and LightSync input status and define local and LightSync switch characteristics, select relay(s)/relay groups to be controlled by an input, and define how those relay(s)/relay groups are to respond.
- Switch Pilots use this option to program local and LightSync switch pilots.
- **Timers** use this option to define normal, astro, and open/close timers. Then map each timer to the relay(s)/relay group it controls and define its response.
- Set Times use this option to enable/disable daylight savings and define astro clock, open/close, OFF sweep, input active parameters. There is also a feature allowing you to force a selected timer to execute.
- **Presets** use this option to capture, edit, and trigger presets from your PC.
- Add-on Module use this option to enter parameters associated with optional DMX, DTMF, N2 and MODBUS control features.
- **Special Functions** use this option to customize names of the LightMaster controller, relay/relay groups, inputs and presets. You can also change the relay drive parameters and LightSync photocell scan rate with this option.





Figure 1-1 LightMaster Pro Home Screen



LIGHT Master

Section 2 Communications

ILC LightMaster - [Connect] File ⊆onnect Setup Edit Document About	
LightMaster Node	On Line Functions LightMaster Firmware Revision
Communications	R E V 6 . 0 2 0 1 / 3 0 / 0 3
COM1 C R5232 C COM2 C IRDa C COM3 C Modem	Time 04:55:27 PM Date Thu 01/30/03
C COM4 Disconnect From LightMaster	Add-On Card None Virtual Keypad
	Download Settings To LightMaster LightMaster
File Name: None	Connected



Section 2 Communications

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2.1 Communication Methods

There are two possible methods for linking a LightMaster controller to a PC:

- Direct Connect- connect the factory supplied cable (consult factory for alterate cable) between a COM port on your computer and the RS 232 port on the LightMaster CPU board, (See Figure 2.1)
- On-board Modem (if equipped)- connect the LightMaster's on-board modem and your computer's modem via a direct analog telephone system (no digital systems) to enable remote communication. (See Figure 2.2)

2.2 Communication Features

Once linked with a LightMaster, you can:

- Check the current status of relays, relay groups, and switch inputs
- Turn individual relays or relay groups ON or OFF
- Sweep all relays in the LightMaster ON or OFF
- Download parameters from your PC to the LightMaster
- Download the clock settings from your PC to the LightMaster (NOTE: make sure the time and date on your PC is appropriate for the LightMaster's location. This is a special concern when programming a remote LightMaster.)
- Upload parameters from the LightMaster to your PC
- Trigger presets







Figure 2.2 – On-board Modem Link



2.3 Sample Procedures

Connect with a LightMaster and Sweep ON all relays. The physical link is a direct connect via RS 232.

Connect with the LightMaster controller (See Figures 2-4, 5, 6)

- 1. After starting LightMaster Pro and powering up the controller, point & click on **Connect**. (See Figure 2-1.)
- 2. When the Communications screen appears, point & click on the LightMaster node address pull down menu to select the Node Address of the LightMaster.
- 3. Select the COM port used to connect the RS 232 cable from your PC to the LightMaster.
- 4. Select the **Connect to LightMaster** button.

Sweep all controller Relays ON (See Figures 2-7, 8, 9)

- 1. Select **EDIT** from the menu bar, then **Relay Outputs** from the pull down menu
- 2. Point & click on **Relay Status**.
- 3. Point & click on **All Relays On** button. Verify that the relay states have changed.

2.4 Virtual Keypad Feature

While you are connected to the controller, you have the option of using the virtual keypad feature of the software to program the controller. Pressing the Virtual Keypad button will display a software version of the controller's keypad that can be used to program the LightMaster.



Figure 2.4 – Home Screen



ILC LightMaster - [Connect]	
Eile Connect Setup Edit Document About	
LightMaster Node	
Communications	
© COM1 © RS232	
C COM2 C IRDa	
C CDM3 C Modem	
C COM4	
Connect To LightMaster	
File Name: None	Disconnected

Figure 2.5 – Connect Screen

ILC LightMaster - [Connect] File Connect Setup Edit Document About	
LightMaster Node Node 01 Indirect Connection Communications COM1 © RS232 C COM2 C IRDa C COM3 C Modem C COM4 Disconnect From LightMaster	On Line Functions LightMaster Firmware Revision I L C L I G H T M A S T E R R E V 6 . 0 2 0 1 7 3 0 7 0 3 Time 04:55:27 PM Date Thu 01/30/03 I/O Installed 08 Inputs/Relays Add-On Card None Virtual Keypad
File Name: None	Download Settings To LightMaster

Figure 2.6 – Connect Screen



LightMaster Node- Node 01 - Communications -	Relay Outputs Switch Inputs Switch Pilots Timers Set Times Presets Add-On Modules Securities	Relay Status Functions Group Status Functions Relay Output Options Master Firmware Revision ILICILIGHT IRIEVIGEN	T M A S T E R
С СОМ2 С СОМ3	C IRDa C Modem	Time 04:57:06 PM Date Thu 01/30/03 1/0 Installed 08 Innuts/Rela	Set LightMaster Clock
Disconnect	From LightMaster		
		Download Settings To LightMaster	Upload Settings From LightMaster

Figure 2.7 – Relay Controls Screen

🔛 ILC LightMaster -	[Rela	y Stat	us]	
File Connect Setup	Edit D	ocume	nt Abo	t
RELAY 01	On	Off	0n	
RELAY 02	On	Off	On	
RELAY 03	On	Off	On	
RELAY 04	On	Off	On	
RELAY 05	On	Off	On	
RELAY 06	On	Off	On	
RELAY 07	On	Off	On	
RELAY 08	On	Off	On	
2			- 1	
All Relays Off	All	Relays	On	
File Name: None				Connected

Figure 2-8, Relay Status Screen



LightMaster Node	e Indirect Connection	On Line Functions LightMaster Firmware Revision	
Communications		REV 6.02	01730703
COM1	© R\$232		
C COM2	C IRDa	Time 04:55:27 PM	Set LightMaster Clock
С СОМЗ	C Modem	Date Thu 01/30/03	
C COM4		I/O Installed 08 Inputs/Relays	
<u>.</u>			
		Download Settings To LightMaster	Upload Settings From LightMaster

Figure 2-9, Disconnect Screen



Figure 2-10, Virtual Keypad Screen



Section 3 Getting Started



LIGHT Pro Master

Section 3 Getting Started

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3.1 Introduction

The easiest way to develop proficiency using Lightmaster Pro is to practice. Let's program a Lightmaster. You will get the most good out of this section if you actually perform the procedures as you read them. In this example you will be programming a LightMaster 8 located in a school, direct connected to the PC via the RS 232 port. The LightMaster is addressed as Node 1, the LightSync switch is addressed as Node 2. There are 4 basic tasks:

- 1. Document the project
- 2. Enter the desired settings off line
- 3. Save the settings to a file
- 4. Download the settings to the LightMaster

3.2 Project Description

The LightMaster is to control 8 circuits. Two hall circuits, four auditorium circuits and two outside lighting circuits. The inside circuits are to be controlled from a six button LightSync switch. In addition, the hall circuits are to turn ON in the morning, OFF at night, and be subject to after hours OFF sweeps. The auditorium circuits are to be subject to two preset patterns and OFF sweeps. The outside lights are to be turned ON by an Astro timer and OFF by a late night normal timer. This control scheme is summarized in the control schedule.

Relay#	Circuit#	Area Controlled	Switch #	Timer #	Preset#
1	H1-1	Hall	02.1	5, 6 and OFF sweeps	
2	H1-2	Hall	02.2	5, 6 and OFF sweeps	
3	H1-3	Auditorium	02.3	OFF sweeps	1,2
4	H1-4	Auditorium	02.4	OFF sweeps	1,2
5	H1-5	Auditorium	02.5	OFF sweeps	1,2
6	H1-6	Auditorium	02.6	OFF sweeps	1,2
7	H1-7	Outside Lights		1, 2, 3, 4	
8	H1-8	Outside Lights		1, 2, 3, 4	

Node: 01

Control Schedule

Timer 1= ON 10 minutes before sunset Timer 2= OFF 11:45 PM

Timer 3= ON 45 minutes before sunrise

Timer 4= OFF 10 minutes after sunrise

Timer 5= ON at 6:45 AM

Timer 6= OFF 7:30 PM

Off sweeps are once every 3 hours

Preset 1= relays 1 and 3 ON, relays 2 and 4 OFF

Preset 2= relays 1 and 3 OFF, relays 2 and 4 ON



3.3 Enter the Settings Off Line

Start LightMaster Pro

- 1. Power up your computer.
- 2. Double click on the LightMaster Pro icon on your desktop to bring up the LightMaster Pro Home screen.

Setup LightMaster (See Figure 3-1)

- 1. Point & click on **Setup**
- 2. When the Setup screen appears, point & click on 8 input/8 Relay Card (Total 8) button.

Configure the Switches (See Figures 3-2, 3)

- Select EDIT from the menu bar, then select Switch Inputs from the pull down menu.
- 2. Point and click on **LightSync Devices**.
- 3. Point and click on **Configure LightSync Devices** to access the configuration screen.
- 4. Point and click on Select Device; then click on LSYNC 02.
- 5. Point and click on the device type pull down menu and select 6 button.
- 6. Ensure that the resulting display shows that all 6 inputs are Momentary P.B.



Figure 3.1 – Home Screen

LIGHT Pro Master



Figure 3-2, Switch Input Menu

📕 ILC LightMaster - [Configure Lig	shtSync Devices]
File Connect Setup Edit Document	About
LSYNC 02	LightSync Configuration - Push Button
6 Button	Input 1 Momentary PB
	Input 2 Momentary PB
	Input 3 Momentary PB
	Input 4 Momentary PB
	Input 5 Momentary PB
	Input 6 Momentary PB
File Name: None	Connected

Figure 3-3, Completed Configuration Screen

Getting Started



Program the LightSync Input to Relay Control (See Figures 3-4, 5)

- Select EDIT from the menu bar, then select Switch Inputs from the pull down menu
- 2. Point and click on LightSync Input to Relay Control.
- 3. When the LightSync Input to Relay Control screen appears, select **LSYNC 02** from the pull down menu. A second pull down menu appears with the sub addresses of the first button (LSYNC 02.1) as well as an action table for the 8 relays.
- 4. Point and click on the action menu for Relay 01 and select **On And Off.**
- 5. Point and click on the sub address pull down menu and LSYNC 02.2
- 6. Point and click on the action menu for Relay 02 and select **On And Off**
- 7. Repeat steps 4-6 to designate settings for other sub addresses and their associated relays

ILC LightMaster - [Configure LightSync Devices]	- DX
File Connect Setup Edit Document About	
File Connect Setup Edit Document About Relay Outputs Inputs Incal Inputs Inputs Inputs Inputs Inputs Inputs Configure LightSync Status Switch Pilots Inputs Inputs Inputs Inputs Inputs Configure LightSync Devices Set Times Input 2 Momentary PI LightSync Input To Relay Control LightSync Input To Group Control Add-On Modules Input 3 Momentary PB Input 4 Momentary PB Input 5 Input 5 Momentary PB Input 6 Momentary PB Input 6 Input 8	
File Name: None	Connected

Figure 3.4 – Switch Input Pull Down Menus



🔛 ILC LightMaster -	[LightSync Input To Relay Control]	
File Connect Setup E	Edit Document About	
LSYNC 02	6 Button	
ESTINE 02.0		
RELAY 01	No Action	
RELAY 02	No Action	
RELAY 03	No Action	
RELAY 04	No Action	
RELAY 05	No Action	
RELAY 06	On And Off	
RELAY 07	No Action	
RELAY 08	No Action	
File Name: None		Connected

Figure 3-5, LightSync Input to Relay Control Screen

Getting Started



Define the Timers (See Figures 3-6, 7)

- 1. Select **EDIT** from the menu bar, then select **Timers** from the pull down menu
- 2. Point and click on **Configure Timers**.
- 3. When the Timer Configuration screen appears, select **Timer 01** from the pull down menu.
- 4. Point and click on the Astro Time button
- 5. Point and click on the time pull down screens to select 10 min and Before Sunset
- 6. If you do not want Timer 01 to execute every day of the week, uncheck the appropriate box for that day of the week
- 7. Repeat steps 3-5 (selecting Normal Time where appropriate) until all 6 timers have been defined

💵 ILC LightMaster - [Lig	LightSync Input To Relay Control]	
File Connect Setup Edit	lit Document About	
LSYNC 02 Sv	Relay Outputs Switch Inputs	
LSYNC U2.6 SV	Switch Pilots PB	
RELAY 01 Se	Set Times Timer To Relay Control	
BELAY 02 Pr	Presets Timer To Group Control	
RELAY 03 Sp	Add-On Modules Timer To Preset Control Special Functions Blink Alert And Alarm Settings	
RELAY 04 No	No Action Configure Timed-On	
RELAY 05 No	No Action	
RELAY 06 On	In And Off	
RELAY 07 No	No Action	
RELAY 08 No	No Action	
File Name: None	Cc	nnected

Figure 3.6 – Timer Pull Down Menus



e Connect Setup Edit Document About Timer TIMER 01 □ Time ○ Normal Time ○ Astro Time ○ Open/Close Time □ Day ○ Normal Days ○ Normal Days ○ Sunday ○ Holiday □ Tuesday □ Wednesday □ Wednesday □ Thursday	ment About ▼ Before Sumise ▼ ▼ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
Timer TIMER 01	▼ Before Sunrise ▼ ▼ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
Time	 ■ Before Sunrise ■ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
Time	 ▼ Before Sunrise ▼ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
 Normal Time Astro Time Open/Close Time Day C Normal Days ✓ Sunday ✓ Holiday ✓ Tuesday ✓ Wednesday ✓ Thursday 	 ▼ Before Sumise ▼ ▼ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
 Astro Time 0 Min ▼ Before Sunrise ▼ Open/Close Time Day Normal Days ▼ Sunday Holiday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday 	 ▼ Before Sunrise ▼ ▼ Sunday ▼ Monday ▼ Tuesday ▼ Wednesday ▼ Thursday ▼ Friday
C Open/Close Time Day C Normal Days	 ✓ Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
Day Image: Normal Days Image: Sunday Image: Monday Image: Tuesday Image: Vednesday Image: Thursday	 ✓ Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
© Normal Days I⊄ Sunday C Holiday I⊄ Monday I⊄ Tuesday I⊄ Wednesday I⊄ Thursday	 ✓ Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
 in Normal Days in Sunday in Monday in Tuesday in Tuesday in Wednesday in Thursday 	 ✓ Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
⊂ Holiday I⊄ Monday I⊄ Tuesday I⊄ Wednesday I⊄ Thursday	 ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
✔ Tuesday ✔ Wednesday ✔ Thursday	 ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday
I Wednesday I Thursday	 ✓ Wednesday ✓ Thursday ✓ Friday
↓ Thursday	✓ Thursday ✓ Friday
	✓ Friday
🔽 Friday	
🔽 Saturday	✓ Saturday
🔽 Ignore Holidays	🔽 Ignore Holidays

Figure 3-7, Configure Timers Screen



Program the Timer to Relay Control (See Figures 3-8, 9)

- 1. Select **EDIT** from the menu bar, then select **Timers** from the pull down menu
- 2. Point and click on Timer to Relay Control.
- 3. When the Timer to Relay Control screen appears, select **Timer 01** from the pull down menu.
- 4. Point and click on the action pull down screen for Relay 7 and click **Turn On**
- 5. Point and click on the action pull down screen for Relay 8 and click **Turn On**
- 6. Repeat steps 3-5 (entering the appropriate timer, relay, and action settings) until Timer to Relay Control is complete for all timers

File Coppert Setup Edit Document About	
Relay Outputs	
Timer TIMER 01 Switch Inputs	
Switch Pilots	
Control Times Filmers	
Presets Timer To Group Control	
Astro Time Add-On Modules Timer To Preset Control	
C Open/Close T Special Functions Blink Alert And Alarm Settings	
Configure Timed-On	
Day Porce limers	
Normal Days V Sunday	
C Holiday 🔽 Monday	
✓ Tuesday	
✓ Wednesday	
✓ Thursday	
Eridau	
l≪ Saturday	
Ignore Holidays	
File Name: None Course	ected

Figure 3.8 – Timer Pull Down Menus



🔛 ILC LightMaster	[Timer To Relay Control]	- DX
File Connect Setup	Edit Document About	
TIMER 01	•	
DELAVIO	NI	
RELAYUI		
RELAY 02	None	
RELAY 03	None	
RELAY 04	None	
RELAY 05	None	
RELAY 06	None	
RELAY 07	Turn On	
RELAY 08	Turn On	
File Name: None		Connected

Figure 3-9, Timer to Relay Control Screen

Getting Started



Enter the Astro Clock Settings

- 1. Select **EDIT** from the menu bar, then select **Set Times** from the pull down menu
- 2. Point and click on Astro Clock Settings.
- 3. When the Astro Clock Settings screen appears, point and click on the pull down screens and select the proper coordinates for the location of the LightMaster

NOTE: You may also click the Find Latitude/Longitude by City button, scroll and select the proper city (if available) and the proper coordinates will be entered in the appropriate fields.

ILC LightMaster - [Astro Clock Settings]	
File Connect Setup Edit Document About	
File Connect Setup Edit Document About Astro Clock Settings	
File Name: None	Connected

Figure 3.10 – Astro Clock Screen



Define the Presets (See Figures 3-11, 12)

- 1. Select **EDIT** from the menu bar, then select **Presets** from the pull down menu
- 2. Point and click on **Edit Presets**.
- 3. When the Edit Presets screen appears, verify that **Preset 01** is in the Preset pull down box
- 4. Select Relay 03, then click the action field until ON appears
- 5. Select Relay 04, then click the action field until OFF appears

- 6. Select Relay 05, then click the action field until ON appears
- 7. Select Relay 06, then click the action field until OFF appears
- 8. Select **Preset 02** from the Preset pull down box
- 9. Repeat steps 4-7, entering the proper settings for Preset 02.

NOTE: To invoke a Preset connect to the LightMaster, point and click on Capture Presets, select the desired Preset and click the Set button.

ILC LightMaster - [Timer To Relay Control]	- DX
File Connect Setup Edit Document About	
Relay Outputs 🕨	
TIMER DE	
Switch Pilots	
BELAY 01 Set Times	
DELAVIO	
Add-On Modules Capture Presets	
RELAY 03 Special Functions	
RELAY 04 None	
RELAY 05 None	
RELAY 06 None	
RELAY 07 None	
RELAY 08 None	
File Manas Mana	Connected
File Name: None	Lonnected //

Figure 3.11 – Presets Pull Down Menu



🔛 ILC LightMaster - [Edit Presets]	- DX
File Connect Setup Edit Document About	
PRESET 01	
RELAY 01 -	
RELAY 02 -	
RELAY 03 On	
RELAY 04 Off	
RELAY 05 On	
RELAY 06 Off	
RELAY 07 -	
RELAY 08 -	
File Name: None	Connected //

Figure 3-12, Edit Presets Screen



Configure the After Hours OFF Sweeps (See Figures 3-13, 14, 15)

- 1. Select **EDIT** from the menu bar, then select **Set Times** from the pull down menu
- 2. Point and click on **Off Hours Sweeps**.
- 3. Select Interval.
- 4. When the Off Hours Sweep Interval screen appears, select the **3 Hour Interval** button

- 5. Repeat steps 1-2, selecting Relays
- 6. Select Relay 01, then click the action field until OFF appears
- 7. Repeat step 6 to set actions for Relays 02-06.

You have completed entering the settings!

ILC LightMaster - [Edit Presets]	
File Connect Setup Edit Document About	
PRESET 01 Relay Outputs Switch Inputs Switch Pilots Switch Pilots Timers	
PELAX02 Set Times ► Daylight Saving Time	
Add-On Modules Onen And Close Times	
RELAY U3 Special Functions ► Off Hours Sweeps ► Interval	
RELAY 04 Input Active Times Relays	
RELAY 05 On Groups	
RELAY 06 Off	
RELAY 07 -	
RELAY 08 -	
File Name: None	Connected

Figure 3.13 – Presets Pull Down Menu

Getting Started



🔤 ILC LightMaster - [Off Hours Sweep Interval]	- DX
File Connect Setup Edit Document About	
File Connect Setup Edit Document About Off Hours Sweep Interval [•] 1 Hour Interval [•] 2 Hour Interval [•] 3 Hour Interval	
File Name: None	Connected

Figure 3-14, Interval Definition Screen

ILC LightMaster -	[Off Hours Sweep Relays]	.ox
File Connect Setup	Edit Document About	
RELAY 01	Off	
RELAY 02	Off	
RELAY 03	Off	
RELAY 04	Off	
RELAY 05	Off	
RELAY 06	Off	
RELAY 07	-	
RELAY 08	-	
File Name: None		Connected

Figure 3-15, Off Hours Sweeps Relays Screen



3.4 Save the Settings to a File

- 1. Select FILE from the menu bar
- 2. Enter a file name
- 3. Select Save As from the file menu

The file will be saved to your hard drive or other media for future use

ILC LightMaster - [(Off Hours Sweep Relays]	-ox
File Connect Setup Ed	it Document About	
New		
Open (Dff	
Save As	Dff	
Exit	Эff	
THELAT OF)#	
RELAY 05	D#	
RELAY 06)Ħ	
RELAY 07	-	
RELAY 08	-	
File Name: None		Connected

Figure 3.16 – File Pull Down Menu





Figure 3-17, Save As Screen

Getting Started



3.5 Connect with the Controller and Download the Settings

- 1. From the Home screen, point & click on **Connect**.
- 2. When the Connect screen (See Figure 3-18) appears, point and click on the address pull down menu to select the Node Address of the LightMaster.
- 3. Select the COM port used to connect the RS 232 cable from your PC to the LightMaster.
- 4. Select the **Connect to LightMaster** button.

- Verify that your PC has the proper date and time for the LightMaster's location. Select Set LightMaster Clock to adjust date and time. (See Figure 3-19)
- 6. Point and click on **Download Settings to** LightMaster to send your settings to the controller
- 7. To disconnect from the controller, point and click on **Disconnect From LightMaster**

NOTE: If you choose, you can enter or change settings online. Remember to upload them to your hard drive to stay curent.

ILC LightMaster - [Connect]	- DX
<u>Eile Connect Setup Edit Document About</u>	
LightMaster Node	
Communications	
© CDM1 © RS232	
C COM2 C IRDa	
C COM3 C Modem	
C COM4	
Connect To LightMaster	
File Name: None	Disconnected

Figure 3-18, Connect Screen



ILC LightMaster - [Connect] FileonnectsetupditocumentAbout	
LightMaster Node	On Line Functions LightMaster Firmware Revision
Communications	Time 04:55:27 PM Set LightMaster Clock
C CUM3 C Modem	I/O Installed 08 Inputs/Relays Add-On Card None Virtual Keypad
	Download Settings To Upload Settings From LightMaster LightMaster
File Name: None	Connected

Figure 3-19, Connect Screen after