



# Light-Interface for the PC-Light Control Light@Night LI-LPT-F Part-No.: 050602

>> finished module <<

The **Light-Interface** for the parallel interface (LPT) of a computer combines together with a minimum of one **Light-Display-Module** or **Light-Power-Module** the hardware for the **PC-Light Control Light@Night**.

It is possible to connect up to **7 Light-Display-** and/or **Light-Power-Modules** onto each **Light-Interface LI-LPT**.

The **lighting effects** (neon lamps, gas street lamps, flashing blue light, light chains, traffic lights and others) can be assigned to a **maximum of 280 outputs**.

Suitable for analog and digital model railways.

This product is not a toy! Not suitable for children under 14 years of age! The kit contains small parts, which should be kept away from children under 3! Improper use will imply danger of injuring due to sharp edges and tips! Please store this instruction carefully.



## Introduction/Safety instruction:

You have purchased the **Light-Interface LI-LPT** for the PC-Light control **Light@Night** for your analog or digital model railway. The **Light-Interface** is a high quality product that is supplied within the assortment of **Littfinski DatenTechnik (LDT)**.

We are wishing you having a good time using this product.

The finished module comes with a **24 month warranty**.

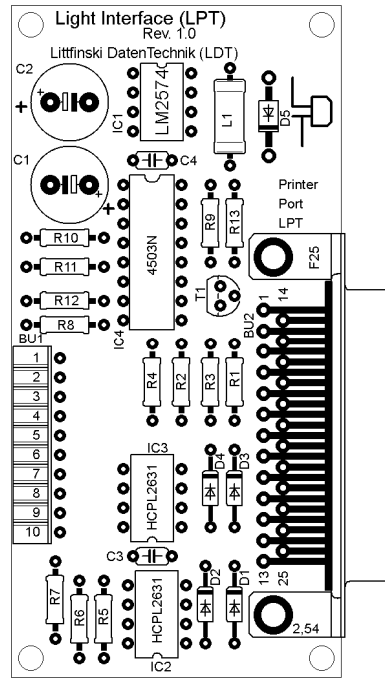
- Please read the following instructions carefully. Warranty will expire due to damages caused by disregarding the operating instructions. **LDT** will also not be liable for any consequential damages caused by improper use or installation.
- Also, note that electronic semiconductors are very sensitive to electrostatic discharges and can be destroyed by them. Therefore, discharge yourself before touching the modules on a grounded metal surface (e.g. heater, water pipe or protective earth connection) or work on a grounded electrostatic protection mat or with a wrist strap for electrostatic protection.
- We designed our devices for indoor use only.

## Connect the Light-Interface to the PC and the Light-Display-Module:

- **Attention:** Before starting the installation switch off the drive voltage by pushing the stop button or disconnect the main supply.
- The **Light-Display-Modules** contain a large capacitor which has to be completely discharged before the **Light-Display-Module** can be connected or disconnected. Please wait a couple of minutes after switching off the supply transformer before you connect or disconnect the **Light-Display-Module**.

The **Light-Interface LI-LPT** will be supplied together with a connection cable for the parallel interface port (LPT) of the computer.

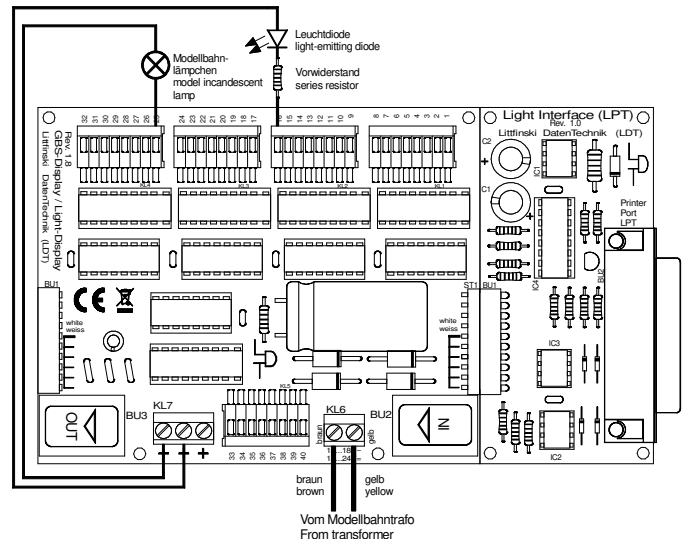
Connect now the **Light-Interface LI-LPT** to the **parallel interface** of your computer by using the **25-poles connection cable**. This port will be identified as **printer-connection (LPT)** as well.



The connection via an USB-Adapter is technically not possible. On some few Laptops it can be possible that the parallel interface will not comply to the actual valid standards. In this case **Light@Night** cannot be used on this Laptop.

Connect now the **Light-Interface** via the **10-poles socket bar BU1** either to a **Light-Display-** or a **Light-Power-Module**. **Attend in any case to the pin bars of the Light-Display-** respectively **Light-Power-Module** to make sure that there is no offset to the socket bar of the **Light-Interface**.

For this issue **please attend** as well to the **Operating Instruction** of the **Light-Display-** respectively **Light-Power-Module**.



It is possible to connect up to **7 Light-Display-** and/or **Light-Power-Modules** to one **Light-Interface**. For this assembly shall be the **second Display-Module** connected to the **first Display-Module** via the **10-poles pin bar** either directly or with the extension cable "Kabel Light@Night xm".

The **Light Interface** receives always the operating voltage from the first **Light-Display-** respectively **Light-Power-Module**. The **Light-Interface** contains a **galvanic separation** to the parallel interface of the PC. Therefore is no direct electrical connection between model railway and computer existent.

One **Light-Display-Module** offers 40 light control outputs with 0.5 Ampere each. One **Light-Power-Module** offers 24 outputs of 2.5 Ampere each. Each output can be individual configured via the **Light@Night PC-Software**.

Further **details referring to the wiring** of lamps and light emitting diodes are available within the **Operating Instruction** of the **Light-Display-** respectively **Light-Power-Module**.

**Colored sample connections** for the wiring can be additionally found on our web site [www.ldt-infocenter.com](http://www.ldt-infocenter.com) at the section **"Sample Connections"**.

## Installation of Light@Night demonstration software:

The PC-Software **Light@Night** can be used in connection with the **Interface LI-LPT** on every PC with a **Windows 32-Bit operation system**.

Windows 32-bit Operating system	Windows 95, 98, Me, NT, 2000, XP, Vista, Win 7, Win 8 / 8.1, Win 10
CPU	Intel or AMD from 300MHz clock frequency
Working memory	64Mbyte RAM
Interface to the Light-Interface	Printer connection port (LPT)

If you want to run the **Light@Night PC-Software together** with a **model railway control software** (e.g. **Railware, WinDigipet, TrainController** or **iTrain**) on your PC you have to attend to some **strict specific requirements**, because the control software as well as **Light@Night** PC-software need some system resources.

In this case please find out the system requirements of your model railway control software and attend to the specific instruction.

In a doubtful case it could be considerable to use a second probably older PC exclusive for **Light@Night**.

In case of a common operation of **Light@Night PC-software** and a **model railway control software** the following PC-system requirements are necessary:

Windows 32-bit Operating system	Windows 2000, XP, Vista, Win 7, Win 8 / 8.1, Win 10
CPU	Intel or AMD from 800MHz clock frequency
Working memory	256Mbyte RAM
Interface to the Light-Interface	Printer connection port (LPT)

Together with the **Light-Interface LI-LPT** you received a **CD-ROM** containing the **Light@Night PC-demonstration software**.

This demo-software enables you to test the **Light@Night** hardware without the complete version. There is a substantial difference to the complete software version. The light outputs of the demo-version offers only light effects for "Glühbirne" (incandescent lamps) and "Blinklicht" (flashing lights).

The **complete version** of the **Light@Night** PC-software for all light effects (neon lights, gas street lamps, flashing blue lights, light chains, traffic lights and many others) including a manual (in German language only) is available by company **Railware** (<https://railware.de>).

For the **installation** of the demo-software please insert the supplied CD-ROM into the CD-ROM drive of your computer:

- The installation program will start automatically. In case the function **"auto start"** has been set to "off" on your PC please start the program "Execute..." at the Windows start menu and enter the following line (without sign): **'d:\setup.exe'**. Please replace the letter 'd' with the letter-code of your CD-ROM drive.
- Follow now the instructions of the installation program.
- Enter the directory where **Light@Night** shall be installed. Recommendation: **'C:\Program\Light@Night'**.
- The following installation will run automatically.
- Finally please restart your PC.

For your first trials you can find a complete sample of the **Light-Display-Module** on the screen after the restart of **Light@Night**.

As first step please check if the **correct parallel interface** has been set at the **PC-software** for the **Light-Interface LI-LPT**.

Therefore please click at the menu bar on **"Options"** and on **"Interface"**. The window **"Interface Hardware"** will turn up. You can **select** now the **parallel interface** between **LPT1** and **LPT4** under which port you have **connected** the **Light-Interface LI-LPT**.

Before you are switching-on the transformer for the supply of the **Light-Display-Module** you have to connect an **incandescent lamp** or a **LED with serial resistor** to the output 2 of the **Light-Display**.

**Further information for the wiring of incandescent lamps and light emitting diodes can be found within the operating instruction of the Light-Display- respectively Light-Power-Module.**

Now switch-on the transformer for the supply of the **Light-Display-Module** and click at the menu bar on **"Start"**.

The **model incandescent lamp** respectively the **LED** connected to **output 2** will **flash** now **continuously**.

By clicking on **"Stop"** the flashing will stop and you will be again at the **entry mode** of the PC-demo-software.

To get use to the **extensive possibilities** of the **Light@Night PC-Software** the software offers detailed **help files**. You can call the help file with **"F1"** and read the paragraph **"Operating the Software"** and **"Configuration"**.

The **complete version** of the PC-software will be supplied with a manual which describes all light effects and possibilities for the PC-light control **Light@Night** in detail. From our Web-Site at the section "Downloads" you download the manual.

## Accessories:

For the **assembly** of the **Light@Night** hardware we offer suitable **assembly material** under the order coder **"MON-SET"**. A set consist of **4 plastic distance washer** and **4 matching wood screws**.

Under the order code **"Kabel Light@Night xm"** you can order an **extension cable** for the **Light-Display-** and **Light-Power-Module** for a possible assembly of the modules at a **0.5m, 1m** or **2 meter** distance.

## Further LDT products from our Digital-Professional-Series:

**S-DEC-4:** 4-fold turnout decoder for four outputs and 1A switching current each. For the digital formats of Märklin-Motorola or DCC.

**SA-DEC-4:** 4-fold switch decoder with four bistable relays of 2A switching current each and free programmable decoder address.

**RM-88-N / RM-88-N-O / RS-16-O:** 16-fold feedback modules (as well available with integrated opto coupling) for the s88- or the RS-feedback bus.

**RM-GB-8-N / RS-8:** 8-fold feedback modules with integrated track occupancy detectors for the s88- or RS-feedback bus.

All components are available as easy to assemble **complete kits** as **finished modules** or as **finished modules in a case**.

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