New Products

WSL Series
Manually Operated Signal Towers

The WSL series is a versatile, manually controlled light tower. It can be used in many environments where manual operations are used such as workstations, call centers, order fulfillment centers, among others. The WSL has the capability to have the light tower attached to the control box or it can be placed separately from the light tower. The switch box has a 12 pin connector for easy connection to the light tower. The kit includes the switch box, and power supply.

NE Series
Indicating Lights

The NE LED indicating light that was introduced last year is now rated IP66 & IP67 which makes it dust proof, resistant to water jets and momentarily immersion. So, the NE can now be used in washdown applications such as pharmaceutical, food processing, and milling environments. Although the NE is only 57mm (2 ¼”) in diameter and 61mm (2.4”) in height it can still be seen at great distances because of the bright LEDs that are used. The NE series can be mounted directly onto sheet metal or it can be put on a pole with M16 male threads. The improved NE series will be available in Red, Amber, Green, Blue and White colors, and are rated at DC24V.

LAS-M1K Series
LED strobe lights

The LAS-M1K series LED strobe lights use super-bright LEDs that are visible from great distances. The LAS-M1K series can be used indoor or outdoor for applications such as forklifts, AGVs (automated guided vehicles), and maintenance and emergency vehicles. The LAS-M1K series has 10 built in flash patterns, including steady, and can be installed together with other LAS-M1K units. Flash patterns can be synchronized, if so desired. It comes in red, amber, blue, and white LED colors, and is rated for DC12V & DC24V.
Pattlite is planning to focus on the packaging and automotive markets in 2009. Our high-quality, reliable, products, bright LED technology, and competitive pricing have helped us gain strong market share in the semiconductor segment. We feel that these strong characteristics will help us penetrate the packaging market by offering them products that will help reduce their manufacturing costs. The automotive market is in very shaky ground, but we feel that domestic and foreign companies will need to find ways to reduce manufacturing costs and that, here too, Pattlite can offer some solutions to these challenges. Below are some case studies showing how our products have been used in these industries.

### Case Studies

#### Packaging Market

**Status Indication for RFID Printer & Applicator**

ID Technologies chose to use Pattlite’s LES-302 on their RFID printer/applicators because of the good value Pattlite represents, the brightness of the LEDs and the low maintenance their customers would enjoy.

#### Food X-Ray Inspection

This Food X-Ray inspection machine manufacturer chose Pattlite’s LU7-02SK because of the reliability of Pattlite’s LEDs. Since this is an x-ray machine it was very important to them that the red light went on when it was supposed to. Since LEDs generally have a longer life than incandescent bulbs and do not burn out like them, they felt that Pattlite’s LU7-02SK would add to the reliability of their machine. In addition to this, they noticed that the LU7’s LEDs were bright compared to the incandescent ones they were using.

#### Automotive Market

**Lighting for Stamping Machine**

A stamping machine end user decided to replace the fluorescent bulbs they were using to illuminate the work area with Pattlite’s CLF LED illumination light because they found that it had many advantages over the fluorescent lights. Some of the advantages they cited are: lower maintenance costs (long-life LED), high resistance to vibration, lower CO2 emissions, lower lead & mercury content (RoHS compliant), and little infrared and ultraviolet radiation. This application is good for not only the packaging industry but also automotive, consumer electronics and any other industry that uses stamping machines.
Case Studies

Back Light Illumination

There are many Andon signs in automotive plants that use backlighting in order to improve visibility. Most of them use incandescent or fluorescent lights. A major automotive manufacturer switched from fluorescent & incandescent to the CLB to light their Andon signs because it was brighter and greatly reduced maintenance costs.

The CLB is a good alternative to fluorescent and incandescent lamps because it dramatically reduces maintenance costs. Incandescent bulbs last about 1,000 hours, and fluorescent ones about 10,000. By comparison, Patlite’s CLB use LEDs that last approximately 40,000 hours. Changing light bulbs 40x or fluorescent lamps 4x vs. 1x can be costly especially if there are several installations. In addition, the CLB consumes only 6.5 watts (CLB-24N-C).

Engine Block Inspection

Inspecting engine blocks for grease conditions was costly and strained the eyes of the inspectors at this automotive plant. They tested the CLB and it was the perfect way for them to reduce the cost of the light and strain on the eye. They have decided to use the CLB for their engine block inspections.

Andon Sign Change Notification

This automotive manufacturer wanted to let their employees know when the light on their Andon sign changed without having them stop their work, turn to see what the condition was and return to their work. They installed the EWH because it has 32 unique sounds they can use to identify each condition on their Andon sign. Now their workers can know what is going on just by hearing the alarm and don’t have to stop their work.
The PHE, PHC and PHU are controlled by PC via RS-232C (PHE & PHC) or USB (PHU). The PHE and PHU can be used like our standard light tower except that instead of being driven by a PLC they are operated by commands generated by a PC. These units can be used to improve quality systems, such as Statistical Process Control, or logistics systems using RFID, or mail sorting systems, by providing visual and audible alarms so operators can take quicker action to correct problems. Both the PHE and PHU use bright, long-lasting LEDs.

The PHC unit has 16 terminals for 8 isolated contact outputs that can activate Patlite light towers, alarms, beacons, and strobes. This allows the user alert different parts of the factory from a centrally located PC via an RS-232C (or USB with converter) interface.

The NHE and NHM units are capable of enhancing a network’s monitoring system by adding audible and visual alarms and email alerts. They can be assigned a unique IP address so they are easily identified by the network. These units can make sure devices connected to the network are working properly using the pinging function for up to 16 nodes. The NHE & NHM can receive SNMP traps from network devices, such as UPS, printer, or router, and report them immediately to the network manager. These units are easily controlled with RHS commands and SNMP protocols. They can be connected anywhere in the network, so they can be strategically placed where someone can be alerted when an event occurs – it does not have to be located in the data center, but could be placed at a security desk, for example.

**Network Capable Signaling Devices**

**NEW**

**Model: PHU**

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**Did You Know…**

*Patlite’s LEDs consume 1/8 the power of an incandescent bulb used in standard light towers?*

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**Introducing Norie Nishiyama**

Norie Nishiyama recently joined the Patlite (USA) Corporation team as our Operations Manager. Norie’s extensive experience in manufacturing and consulting will help us go to the next level. She has already made a big impact and we look forward to more from her. Norie will be responsible for accounting, operations, and logistics. Please feel free to contact her at nnishiyama@patlite.com or 310-328-3222, extension 203.

**Upcoming Trade Shows**

- **PROMAT 2009**
  - January 12 to 15
  - Chicago, IL

- **MD&M West**
  - February 10 to 12
  - Anaheim, CA

- **SEMICON-West**
  - July 14 to 16
  - San Francisco, CA

- **ASIS**
  - September 21 to 23
  - Anaheim, CA

**Pakc Expo 2008 Report**

Patlite participated in Pack Expo held at Chicago’s McCormick Place this past November. Exhibiting in this trade show confirmed to us that we have great opportunities in this market, and that we can look forward to increasing sales for you and us by penetrating this market.