Specifications

Model	LA6- ☐ D ☐☐☐ - ☐				
Rated Voltage	DC24 V				
Operating Voltage Range	±10% of Rated Voltage				
Rated Power Consumption	Standard	LA6-5 D ☐☐ N-RYGBC	5W	LA6-5 D ☐☐ B-RYGBC	6.5W
		LA6-3D ☐☐ N-RYG	3.5W	LA6-3D ☐☐ B-RYG	4.5W
	Maximum	LA6-5 D ☐☐ N-YYYY	7W	LA6-5 D ☐☐ B-YYYY	8W
		LA6-3D ☐☐ N-YYY	4.5W	LA6-3D ☐☐ B-YY	5.5W
	Environmental Condition	Power Consumption test with alarm set at Alarm Sound No.1 at maximum volume			
Signal Wire Current	Maximum 70mA				
Standby Current	Maximum 15mA				
Operating Ambient Temperature	-25℃ to +60℃				
Operating Humidity Range	Less than 90% RH (No Dew or Condensation)				
Storage Temperature Range	-25℃ to +60℃				
Storage Humidity Range	Less than 90% RH (No Dew or Condensation)				
Mounting Location	Indoor Only				
Mounting Direction	Upright/Inverted Direction				
Protection Rating	IP65 (With alarm: IP54) IEC 60529				
	Environmental Condition	Install in an upright position			
Vibration Resistance		LA6- ☐☐ LJ ☐☐	Sweep Durability: Total amplitude: 0.3 mmp-p (10 - 57.5 Hz), Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed pitch durability: Acceleration 20.0 m/s2		
		LA6- ☐☐ TN ☐☐	Sweep Durability: Total amplitude 0.3 mmp-p (10 - 57.5 Hz), Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed Vibration Frequency Durability: Acceleration 10.0 m/s2		
		JIS C 60068-2-6:2010			
	Environmental Condition	Tested while installed in an upright position			
Insulation Resistance	More than 1Mohm at DC500V between the power input lead and chassis.				
Withstand Voltage	500VAC for 1min between terminals and chassis without breaking insulation				
Display Color	red (1000 mcd) yellow (1700 mcd) green (2600 mcd) blue (1000 mcd) white (1250 mcd)				
(Typical Luminous Intensity)	Purple (800 mcd) pink (850 mcd) cyan (2150 mcd) lemon (2150 mcd) * Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.				
Flash Rate	60 ±2 fpm				
Alarm Sound (Typical Frequency)	No. 1	2400Hz Continuous beep sound	No. 2	2400Hz Rapid intermittent beep	
	No. 3	2400Hz Long intermittent beep	No. 4	2400Hz Fast intermittent beep	
	No. 5	3600Hz Continuous beep	No. 6	3600Hz Rapid intermittent beep	
	No. 7	3600Hz Long intermittent beep	No. 8	3600Hz Fast intermittent beep	
	No. 9	2400Hz & 3375Hz Multiplexed Beep	No. 10	2400Hz & 3600Hz Multiplexed beep	
	No. 11	4000Hz & 4800Hz Multiplexed Beep			
Sound Level	Maximum: 85dB				
	Environmental Condition	Alarm Sound No.1 measured from the front direction of the alarm opening at 1m			
Volume Control	The set up button is the fourth step (Factory Default: Maximum). [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum])				
Data Transfer Interface	Main Unit	USB micro-B Terminal Female USB2.0/1.1 Interface, Transmission Rate: USB2.0/1.1/1.0			
	Transfer Cable	Charge /Data Transfer Micro USB (not included); Connector: USB Male- USB (MicroB) male			
Data Programming Application Software	Exclusive Application Software (Downloadable from our Homepage)				
Mass (Tolerance 10%)	LA6-3DTN ☐ B	480g	LA6-3DLJ ☐ B	980g	
	LA6-3DTN ☐ N	420g	LA6-3DLJ ☐ N	930g	
	LA6-5 DTN ☐ B	590g	LA6-5 DLJ ☐ B	1090g	
	LA6-5 DTN ☐ N	530g	LA6-5 DLJ ☐ N	1040g	
Compliance Standards	EMC Directive (EN 61000-6-4, EN 61000-6-2)		RoHS Directive (EN 50581)		
	UL508, CSA-C22.2 No.14		KC (KN 61000-6-4, KN 61000-6-2)		
	FCC Part 15 SubpartB Class A		CE Marking		
Remarks	UL Recognized Component (File No.E215660)				

Dimensions (Unit：mm)

■ TN Direct Mount / Terminal Buss Type

< Specification : Height >
5 - B : 330
3 - B : 264
5 - N : 290
3 - N : 224

※1 Mounting Surface Thickness Range: 4mm or less.

※2 TN Type Underside View
Cable Gland Mounting Screw Hole
(M16×1.5 Effective Screw Length: 12mm)

Cable Gland
(Note) Cable gland is not included with this product.

■ LJ Steel Pole & 'L' Bracket Cable Type

< Specification : Height >
5 - B : 320
3 - B : 254
5 - N : 280
3 - N : 214

'L' Bracket

※3 Mounting Surface Thickness Range: 16mm or less.
Wire Length : 1060

L 'L' Bracket Dimensional Drawing

Front Direction (Alarm Direction)
Mounting Hole (Ø5)
Outer Dimension
Ø40
Mounting Hole (Ø5)
Wiring Hole (Ø12※2)
Mounting Hole (Ø5)
Nameplate Location
(34.6)
※2 Use φ23 for Cable Gland
(TN Type)

Top View
Side View
Bottom View

Model Code

Signal Tower   LA6- ① D ② ③ ④ — ⑤

Example:
LA6-5DTNUB-RYGBC
• LED Tiers…5
• Body Color…Silver
• Flashing • Alarm…with Flash and Alarm
• Mounting/Wiring…Direct Mount/Terminal Buss
• Color…Red/Amber/Green/Blue/White

① LED Tiers
3: 3 Tiers
5: 5 Tiers

② Mounting/Wiring
TN: Direct/Terminal
LJ: Steel Pole & Angle • Cable

③ Body Color
W: Off-white
U: Silver

④ Flashing/Alarm
B: With
N: Without

⑤ Color
RYG: 3 Tiers
RYGBC: 5 Tiers

※The LED light color for each tier can be changed after purchase.   ※LJ type does not have a "U" (Silver) specification.

Wiring

External Contact Classification
Contact Relay

LA6
N No Flashing/Alarm   B Flashing/Alarm
Flashing/Pulse Enable
Common Line   Brown / 9
LED Tier 1/ Input1   Red / 1
LED Tier 2/ Input2   Orange / 2
LED Tier 3/ Input3   Green / 3
LED Tier 4/ Input4   Blue / 4
LED Tier 5/ Input5   White / 5
Alarm 1/ Input6   Purple / 6
Alarm 2/ Input7   Lt. Blue / 7
Mode Change   Pink / 11
Power Supply Wire   Gray / 10
Power Supply Wire   Yellow / 8
DC 24V (Class2) (Non-polarized)
Don't Apply Voltage!
Flashing/Pulse Enable
External Contact
Lighting/Alarm
External Contact
※ B Flashing/Alarm Type

External Contact Classification
PLC (NPN Transistor)

LA6
N No Flashing/Alarm   B Flashing/Alarm
Flashing/Pulse Enable
Common Line   Brown / 9
LED Tier 1/ Input1
LED Tier 2/ Input2   Orange / 2
LED Tier 3/ Input3   Green / 3
LED Tier 4/ Input4   Blue / 4
LED Tier 5/ Input5   White / 5
Alarm 1/ Input6   Purple / 6
Alarm 2/ Input7   Lt. Blue / 7
Mode Change   Pink / 11
Power Supply Wire   Gray / 10
Power Supply Wire   Yellow / 8
DC 24V (Class 2)
Don't Apply Voltage!
PLC
Flashing/Pulse Enable
PLC Output Unit 2
Lighting/Alarm
PLC Output Unit 1
Circuit Diagram
C
E B
※ B Flashing/Alarm Type

PATLITE ECO PROJECT
For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.

ISO14001:2004 認証取得
Intertek
U K A S MANAGEMENT SYSTEMS

Catalog No.	K-3111A	1410 M/M(SM)A

PATLITE®

Signal Tower
LA6

See More, Do More!

Embedded Software Program,
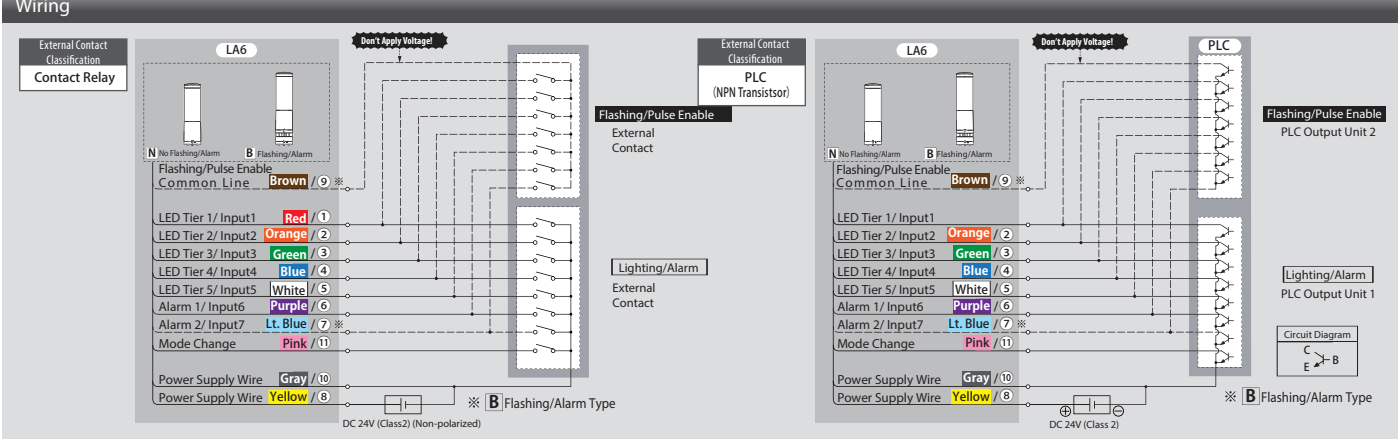To set a variety of colors or use different mode features.

REVOLITE™

www.patlite.com
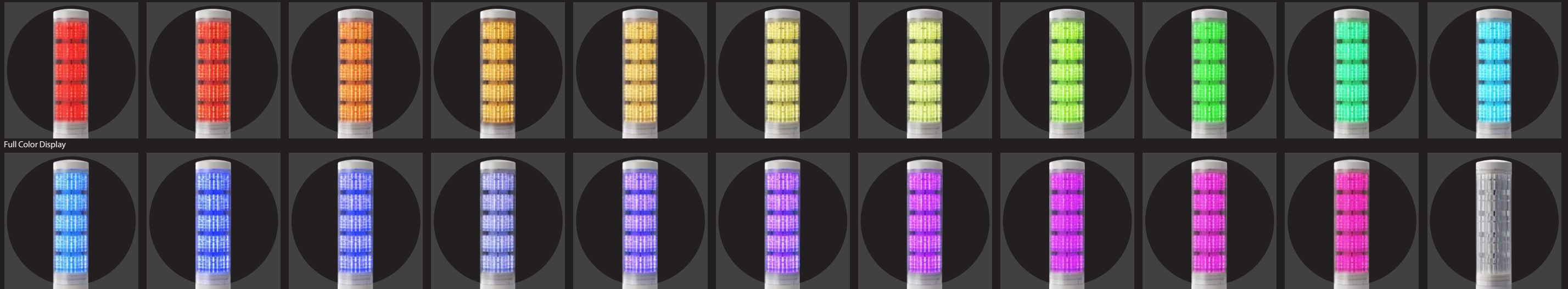
Full Color Display

See More, Do More!

Display a variety of colors in various ways to improve your processes.

PATLITE innovation continues with improved functionality to drive productivity, improve efficiencies, and reduce waste. One of our basic themes is to help you make continuous improvements in your process. In order to make your lives more "comfortable", our theme of "Visual Information" has been a persistent one by making things easier to do. Here, we introduce the LA6 multi-informational signal tower. It can be easily manipulated to display various colors and combination of colors in various ways in order to communicate "visual information" in a manner that is intuitive and easy to understand. The applications are endless. As a pioneer manufacturer of information display equipment, we will strive to provide society the best products in order to meet your expectations for "Safety, Security, and Comfort".

· Indicate abnormal conditions with a variety of color patterns.

Can freely set up multiple colors.
For example, a serious condition can be indicated with the "All-point Lighting" where the entire signal tower is the same color, thus conveying important information.

· Use "Operating Modes" to enhance a visual status condition.

The downloadable program can be used to make patterns change at set intervals so the signal tower can be used to count time or set a pace.

· Simple and easy to use complimentary programming software

The downloadable complimentary programming software can be used to easily control which colors are displayed and how they are to behave.

REVOLITE™

"More active, more flexible and beautiful"

"Revolite™" was made to redefine "light" and to make the environment more active, more beautiful, and more flexible.
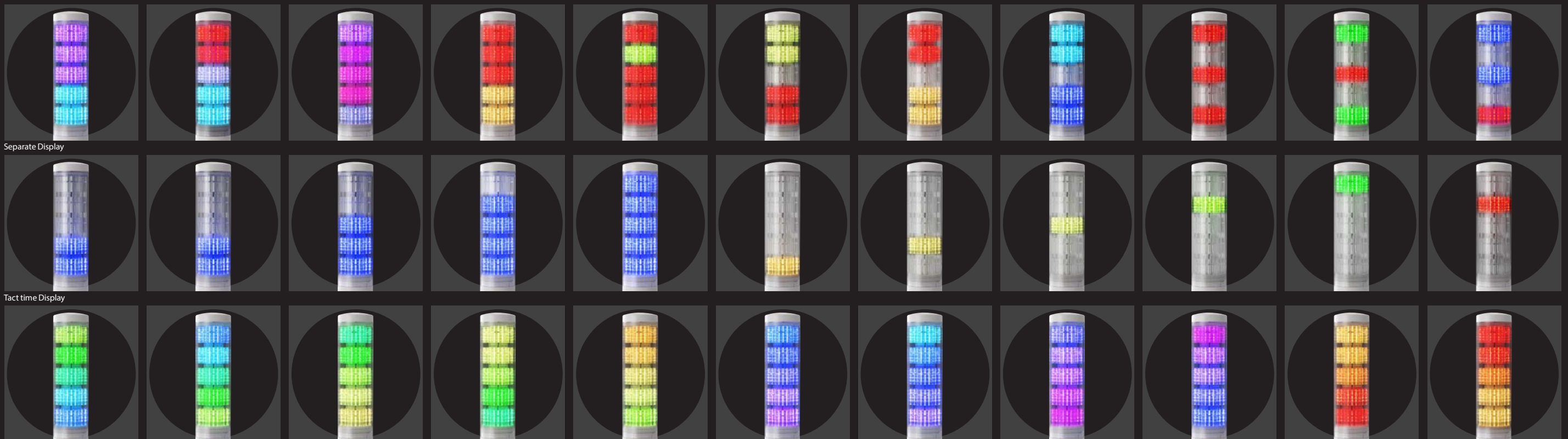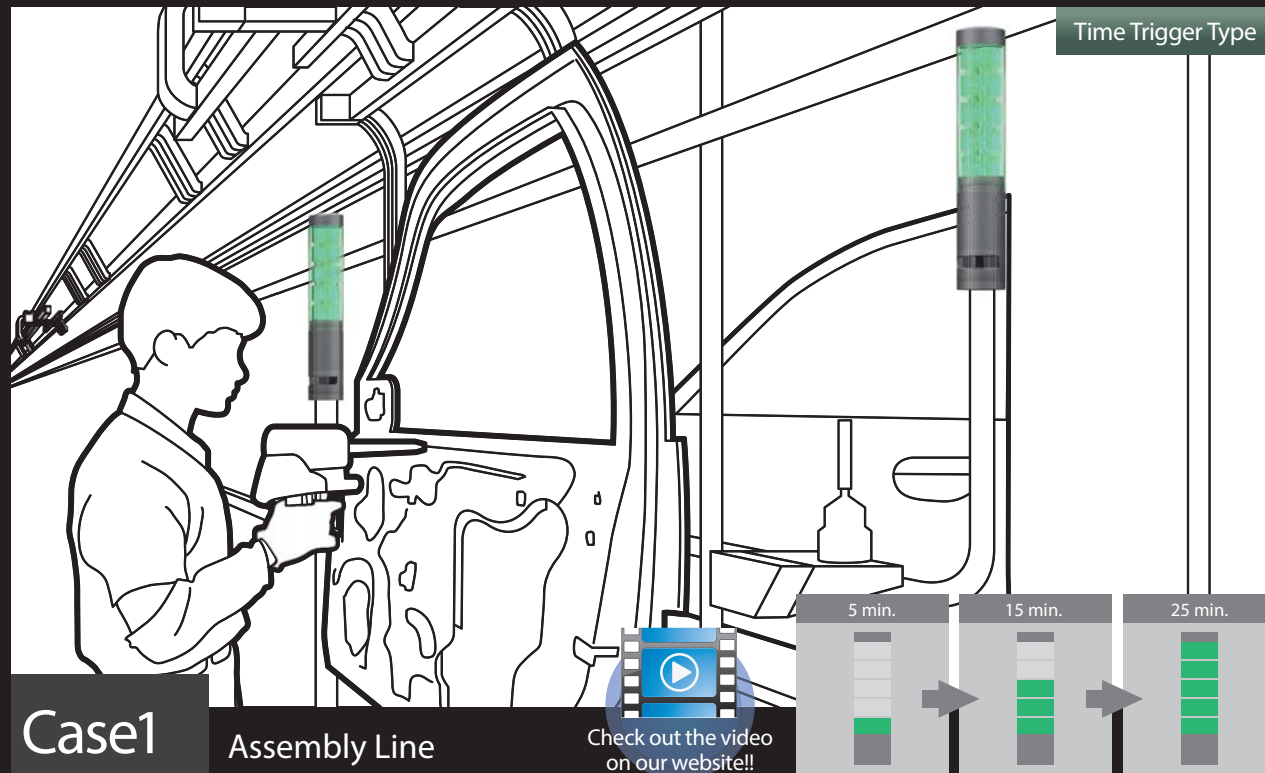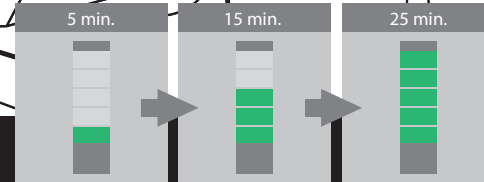

Separate Display

Tact time Display

Gradition Display

REVOLITE™

See More to reduce downtime, improve productivity, and improve efficiency

See More through intuitive, quietly visual, and reliable communication

Time Trigger Type

| 5 min. | 15 min. | 25 min. |

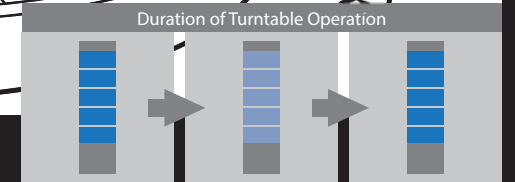### Case1 Assembly Line

Check out the video on our website!!

Productivity can be improved by assigning a task for each tier that is lit so that operators can know if they are on pace or not. No external controls are required to set up the takt time.

Lighting Method: "Takt Time Display"

Display elapsed time in "real time" by counting the number of tiers that are lit.

Time Trigger Type

Duration of Turntable Operation

Case1 Baggage Conveyors

Check out the video on our website!!

Flashing lights can help alert people that a baggage conveyor is about to start, thus reducing accidents. Different color lights can also be used to match airline colors so it's easier for passengers to know which carousel to go to.

Lighting Method: "Sine Curve Display"

Changing the light intensity allows for a more subtle way to communicate operation status.

Simple Display Type

| Serious Error | Slight Error | Needs Maintenance |
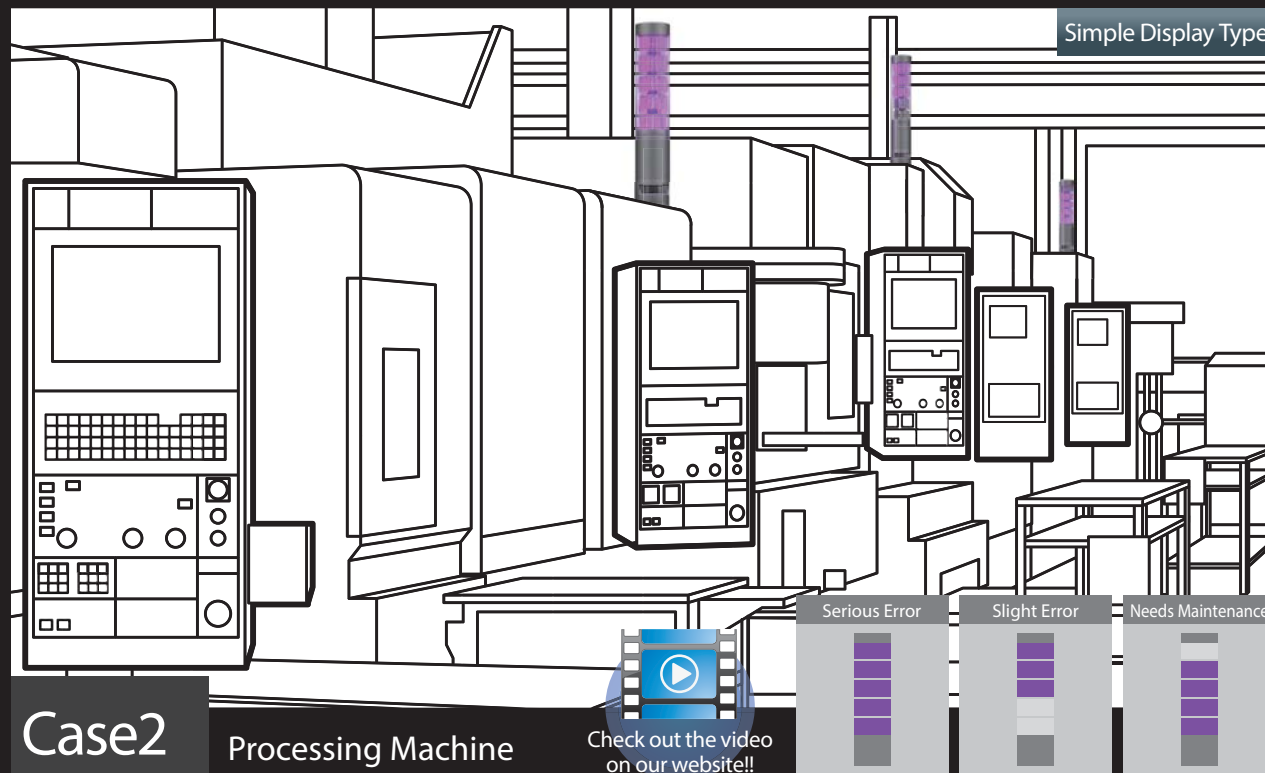
Case2 Processing Machine

Check out the video on our website!!

When there are many processing machines it is important that any trouble or need for maintenance is quickly communicated. This can be easily accomplished with predetermined color arrays, as shown on the example on the right. The various colors or intensity of colors will allow problems to be addressed quickly, thus improving productivity and reducing down time.
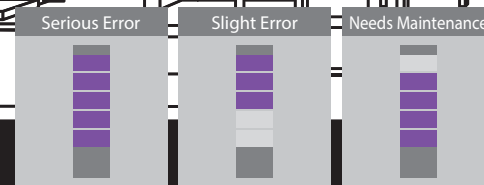
Lighting Method: "Detailed Error Display"

The level of information (serious error, slight error) can be expressed colorfully.

Simple Display Type

| Checkout Busy | Checkout Open |
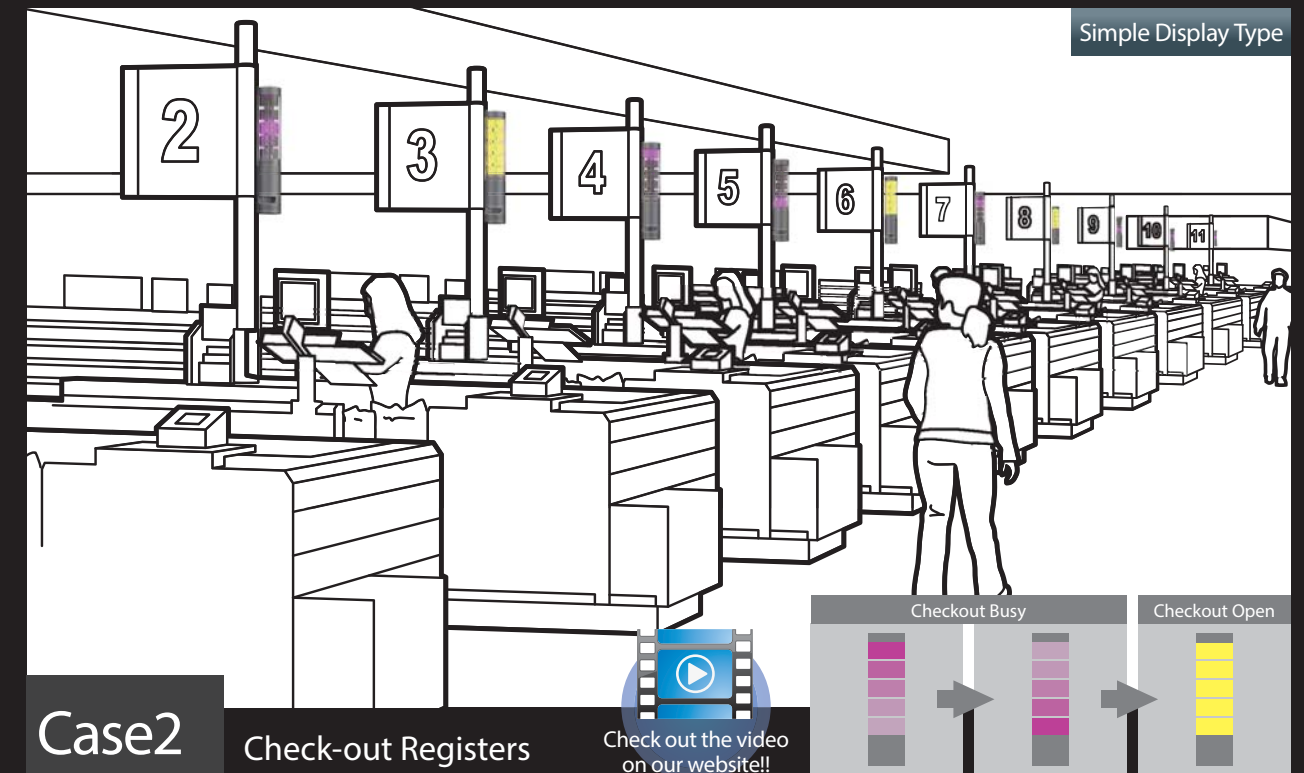
Case2 Check-out Registers

Check out the video on our website!!

Different colors can designate a busy or open checkout register in larger supermarkets. This allows customers to be able checkout quicker and balances cashier's workload. Special light patterns can also be used to communicate between cashiers and their supervisors or other employees.
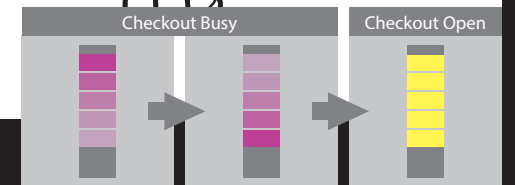
Lighting Method: "All-point Lighting Display"

An "All-point Lighting Display" can use all sections of the LA6, such as displaying the light sequentially to simulate movement at a checkout register, and an all-solid color can be displayed when the lane is open.

A new lens design optimizes visibility.

The newly developed lens design efficiently diffuses LED light so that it is unmistakably visible, even from great distances.

Freely change luminescence colors and patterns with editing software.

Upload colors and patterns using the editing program to the signal tower using an USB cable* connected to a PC.
* The USB cable is sold separately (USB microB type with Charging/ Data Transfer capability).
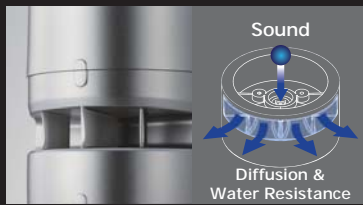
The alarm has a total of 11 sounds to match various applications.

The water-resistant speaker design is able to play clear sounds of up to 85 dB (at 1m) despite it's compact size. Alarm sounds can be set up with every display pattern.

Sound

Diffusion & Water Resistance

An internal Mode Switch is available.

Use the internal mode switch to easily set up various functions, such as the alarm volume.
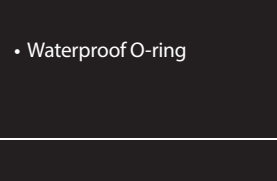
Replacement Parts

· Headcover

· USB Port Cover

· Waterproof Ring 'B'

Off-white

· Pole Bracket
 (with Waterproof Ring and Screws)

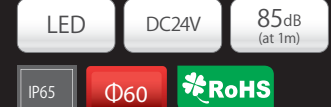· Waterproof O-ring

REVOLITE™

• 3 Tier Type

Off-white / Silver
Lighting

Off-white / Silver
Flashing/Alarm

• 5 Tier Type

Off-white / Silver
Lighting

Off-white / Silver
Flashing/Alarm

Steel Pole Type (L J)

Signal Tower LA6

· Voltage: DC24V
· Alarm: 11 Sounds
· Wiring: 2 types
  (Screwless Terminal (TN)) or (Cable (LJ))

LED | DC24V | 85dB (at 1m)

IP65 | Φ60 | RoHS

※ Alarm type is rated at IP54.

c UL us CE KC

View our videos at our exclusive site for more information.

Features and various product operation modes can be viewed at our exclusive site (www.patlite.com/LA6). The contents introduce actual applications, ideas for applications, and wide-spread potential for this product.

Exclusive Site/ Top Page
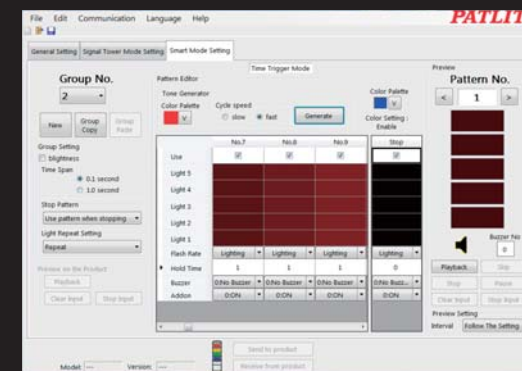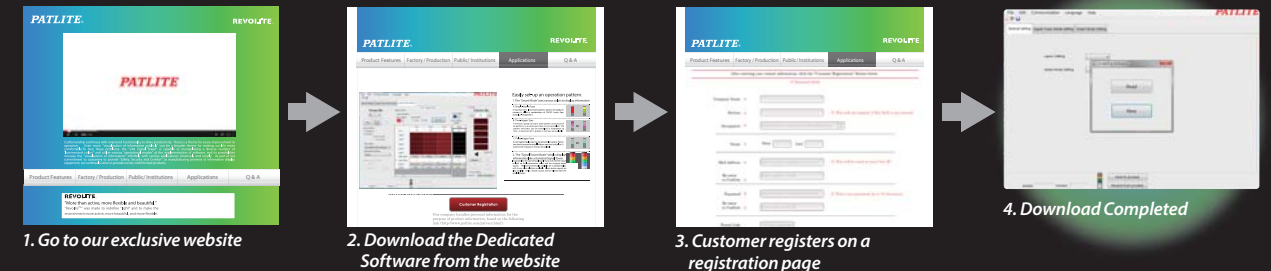* The website design may change without notice.
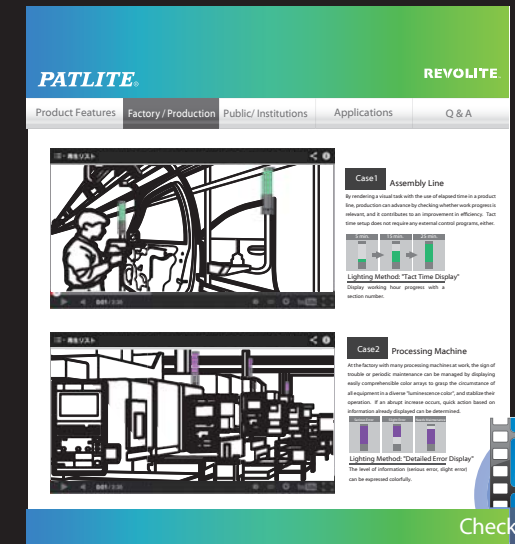
Exclusive Site/ Application Page
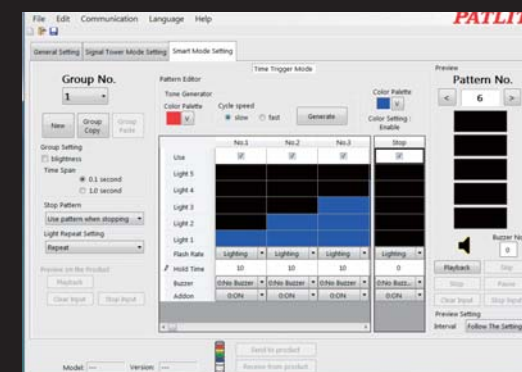
Check out the video on our website!!

Free editing software can be downloaded from our exclusive website.

With the simple editing software available for free, a "luminescence color" and "luminescent pattern" are easily set-up.

1. Go to our exclusive website

2. Download the Dedicated Software from the website

3. Customer registers on a registration page

4. Download Completed

Dedicated software setup screen

* The interface design may be changed without advanced notice.

Easily set up an operation pattern.

1. The "Smart Mode" uses various colors to display information

A. Single-display Type
31 luminescent patterns are stored in the unit's memory and can be set to on/off for 1-5 tiers.

B. Time-trigger Type
Up to 15 groups of up to 63 patterns can be controlled as a continuous flow based on preset times.

C. Pulse-trigger Type
Pulse-trigger Type is activated by discrete inputs instead of time to progress from one pattern to the next, for up to 63 patterns. These can be grouped for up to 15 groups.

2. "Signal Tower Mode"
This mode simply displays information like a standard Signal Tower.

Four new color selections are available in addition to the five standard luminescence colors.

3 Tier Type

5 Tier Type
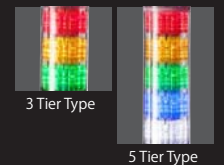
Set-up data can be downloaded.

Several pre-programmed patterns can be uploaded to the unit from the "Information Set."