

# be Artistic

Multicolor Indicator

# LUMITALK



## Features

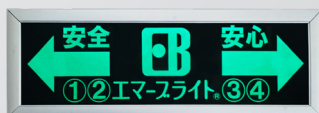
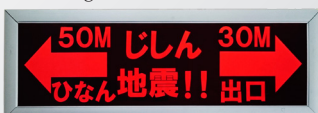
- The design can be easily changed by switching two kinds of LED.
- An improvement on the readability of the two condition indicators has been made, and it is also possible to improve on the user interface including erroneous operation prevention.
- Compared to LCD display, "LUMITALK" display can be brighter, more durable and lower power consumption with simpler mechanism.
- Because these two patterns are printed on a film, the display module can be thinner and modified just by changing the printed film.
- With the emission wavelengths of the two LEDs and the spectral transmission characteristics of each pattern printed on films in two-color printing, overlapping two patterns can be separated and each can be individually displayed.
- The color combination can be selected from blue/red, blue-green/orange, green/red, and others in switching colors.

## Application Examples

A LUMITALK display on a curved surface is made possible by film insertion.



The display can be used as an advertisement signboard under normal circumstances and as an evacuation route indicator in emergency situations. It can be connected to storage batteries and the earthquake early warning system as a resilient signboard.

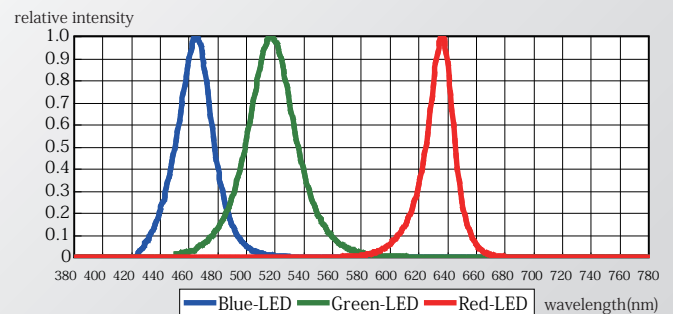


## Principle

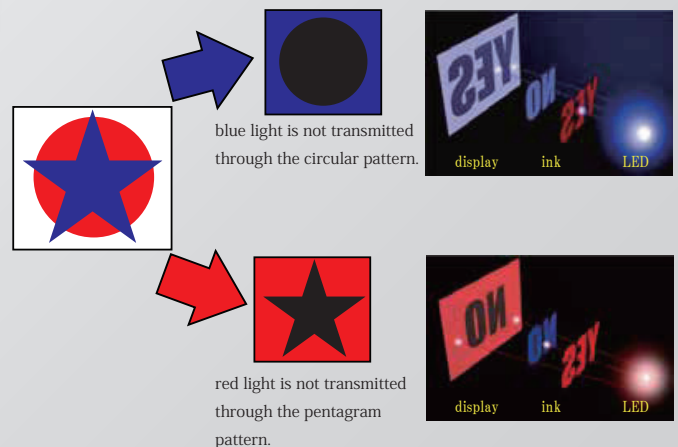
When two filters with two different colored patterns are superimposed and irradiated by a white light source or by natural light (transmission and reflection) from one side, the resultant pattern is the combination of the two colored patterns.



Relative intensity distribution of LED



When the combined pattern is irradiated with distinctive-color LED light...



When the LED emission wavelength and the transmission property of each pattern match, the combined pattern can be decomposed.



TOKAI OPTICAL CO.,LTD.

121 Koeda, Shinpukujicho, Okazaki-city, Aichi 444-2106 JAPAN  
TEL:+81-564-45-8000 FAX:+81-564-45-8001  
E-mail : thinfilm@tokaiopt.co.jp  
<http://www.tokaioptical.com>

