

# HIGHSPEED WIRELESS COMMUNICATION! **LED Backhaul**<sup>®</sup>

LED Backhaul is a registered trademark of Sangikyo Corporation. The registered # is 5911504.



**High Speed & Low Latency**

**Stable > No Radio Interference**

**Secure > Extremely difficult interception**

**Speedy & Flexible > Easy Set-up**

**To be Standardized > Scheduled to IEEE802.15.13/ITU-T G.vlc**



Portable kit

Powered by  
**Fraunhofer**  
Heinrich Hertz Institute



Produced by  
**The Optimization Company**<sup>®</sup>  
Sangikyo Corporation

# LED Backhaul®

LED Backhaul is suitable for high speed wireless communication such as 4K8K video transfer. It can be used in environments where radio communication is not viable, as well as in temporary applications due to the freedom enabled by the LED Backhaul's easy set-up design and lack of wired.

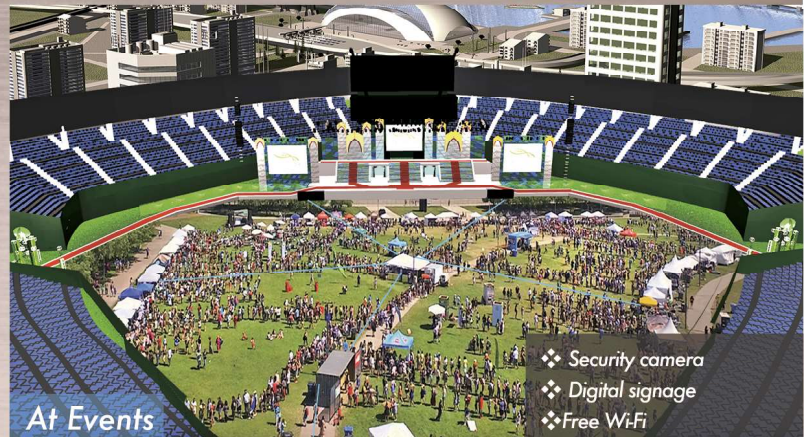
<Use Cases> Blue light is just an image, infrared LED adopted in the LED Backhaul is not visible.



## At Subway Stations

Building out a network at subway stations

- ❖ Security camera
- ❖ Digital signage
- ❖ Telemetry transfer



## At Events

Building out a temporary network at events

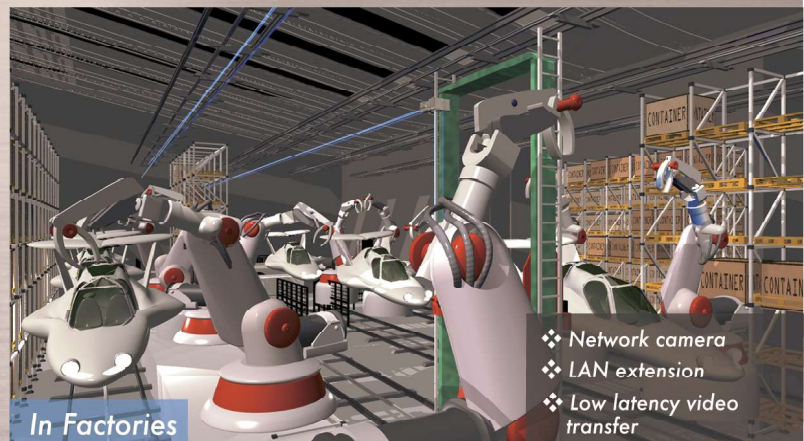
- ❖ Security camera
- ❖ Digital signage
- ❖ Free Wi-Fi



## Between Buildings

Building out a network at evacuation sites

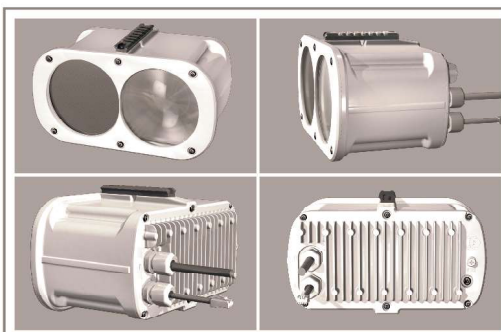
- ❖ Events at hall
- ❖ Portable kit
- ❖ Disaster and evacuation information



## In Factories

Building out a flexible network in factories and warehouses

- ❖ Network camera
- ❖ LAN extension
- ❖ Low latency video transfer



Data rates	Max. 750Mbps (500Mbps@100m) Maximum communication distance is 300m.
Size	W262 x D158 x H150 mm
Weight	2.6kg (Excluding AC adapter)
Power	AC100V / DC12V
Consumption Power	Approx. 15W
Communication	IEEE802.15.13 (To be standardized)
Interface	RJ-45 (1000Base-T)
Wavelength	Infrared LED
Enclosure	IP67

SANGIKYO'S LED Backhaul system is powered by the technologies of \*Fraunhofer

\*Fraunhofer is one of the largest research institute in Europe. Based in Germany, their technologies of voice coding "AAC" and optical fiber modulation are utilized all over the world.

 **The Optimization Company®**  
Sangikyo Corporation  
URL : [www.sangikyo.co.jp](http://www.sangikyo.co.jp)  
Email : [LED.sales@sangikyo.co.jp](mailto:LED.sales@sangikyo.co.jp)

Contact Information