

A photograph showing construction workers at night. One worker in the foreground wears a high-visibility orange suit with reflective stripes. Another worker further back wears a similar suit. A yellow construction vehicle with its headlights on is visible in the background. The scene is dark, with light from the vehicle and streetlights illuminating the workers and the road.

## BRINGING YOU INNOVATION: LED SAFETY VEST FOR EXTRA VISIBILITY

A photograph of a worker in a dark jacket with a glowing red LED outline. The worker is shown in profile, facing left. The background is dark, making the glowing red lines on the jacket stand out.

Standard hi-vis relies on light being shone onto it. The LED Vest adds active 360° illumination, helping the wearer remain visible in low-light conditions, poor weather and areas with moving vehicles or equipment.

The patented system emits light through side-emitting optical fibers encased in a textile coating. This creates a continuous illuminated outline rather than small, directional LED points, improving visibility from all directions.

A close-up photograph of a black safety vest with glowing red LED outlines. The vest is shown from the side, highlighting the continuous illuminated lines along the edges and straps. The brand name 'Equiray' is visible on one of the straps.

Unlike reflective tape, photo-luminescent materials or standard LED strips, the hardness is **designed for wearable safety: lightweight, washable, bendable and easy to integrate into garments without bulky wiring or exposed light points.**

**Designed for low-light, high-risk environments across logistics, aviation and civil infrastructure.**

# HEAVY DUTY LED SAFETY VEST

Available in High Visibility Orange and High Visibility Yellow.



## REMAIN VISIBLE IN LOW LIGHT ENVIRONMENTS

Designed for maximum protection and durability.

### VISIBILITY

Hi-Vis Yellow and Orange lighting colours in all directions up (360°) for up to 3km away. Silver Reflective Tape - EN ISO 20471: 2013 + A21:2016

### MATERIAL

IP68-rated without the power bank – fully dust-tight and protected against water immersion under specified test conditions

### BATTERY

Compact portable power bank, Input USB C and Output USB C & USB A. Ensures light visibility for up to 30 hours

### WASHING

Tested to endure up to 40 industrial washing cycles at 60°

### HARD WEARING & LIGHTWEIGHT

Proven durability in extremely challenging and cold environments and under prolonged stress

### ELECTROMAGNETIC SAFETY

Meets required electromagnetic safety standards



## PRACTICAL & DURABLE: SPECIFICATION DETAILS - HEAVY DUTY LED VEST



**LED Safety Vest Only -  
Yellow: GX-BTHDP-YL**



**LED Safety Vest Only -  
Orange: GX-BTHDP-OR**

**LED Safety Vests are  
available in one size:**

- Min: 850 mm
- Max: 1300 mm
- Weight: 165 g +/- 10%

**Both Safety Vests must  
be purchased with a  
Rechargeable Power  
Bank**

- Weight: 125 g
- Size: 100 x 64 x 14.5 mm

**Power Bank -  
Rechargeable GX-BTUSB**



- ✓ Up to 3 km visibility in all directions (360°)
- ✓ Silver Reflective Tape Certification EN ISO 20471:2013+A21:2016
- ✓ Vest is fully washable (without battery) and resistant against rain. Wash at 60° - do not iron or tumble dry
- ✓ IP68 Waterproof without power bank (for water and dust resistance)

- ✓ Power Bank (5000 mAh) operation time up to 30 hours. Charging indicator
- ✓ Type C input and output. USB Output

Enquire about a blue version available for the Emergency Services.

- ✓ The technology is RoHS and OEKO-TEX Standard 100 compliant at all stages, ensuring safe and healthy products

**To discuss how this product can help your team to stay highly visible in poor lighting conditions contact us today.**