# VENUSLAB
## OPTOELECTRONICS

# Laser Viewers
## Handheld Near-Infrared Laser Viewer

A broad-spectrum, long-life, portable NIR viewer for the laser industry.

- Wide-spectrum high definition
- Anti-light and anti-burning
- Lightweight and long-lasting



# One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote

Get Expert Advice
+65 8099 5547

Visit Us
www.venuslabtech.com

## Overview

**Broad-Spectrum Vision, Fearless of Strong Light**

VL-NIRV-1600 is a handheld viewer specifically designed to capture invisible light. It perfectly integrates wide-spectrum light-sensing technology with full-digital high-definition display. It not only completely overcomes the fatal flaw of traditional optical instruments that are prone to damage when exposed to strong light, but also, with its extreme lightweight design ( 680g) and ultra-long battery life, provides researchers and on-site engineers with a pair of "all-weather, high-definition" near-infrared perspective eyes.
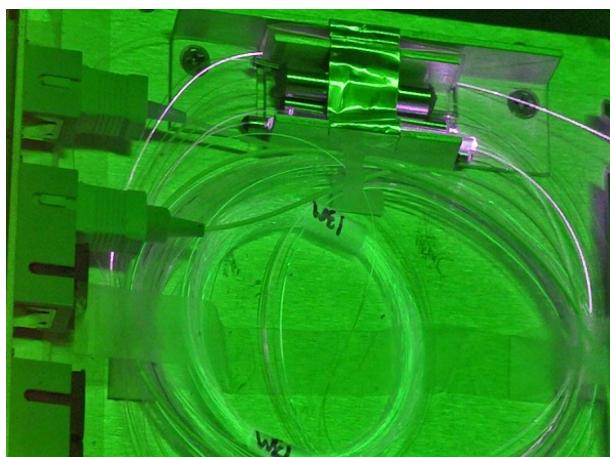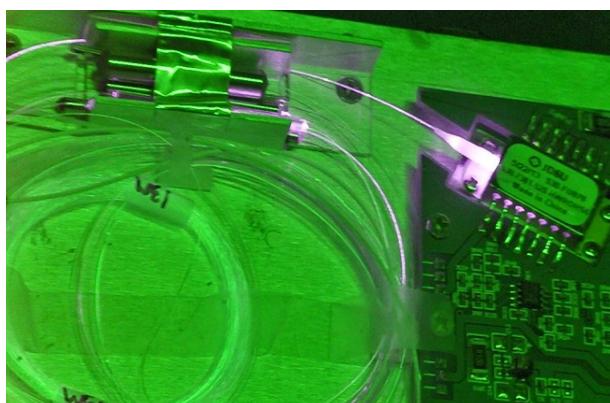
### Applications
• **Beam Alignment:** Spot locating and precise optical path alignment for 1064nm and other near-infrared solid-state/fiber lasers.
• **Optical Telecom:** 980nm pump light detection, EDFA (Erbium-Doped Fiber Amplifier) testing, and troubleshooting.
• **Special Light Source:** Emission status observation for 1350nm/1400nm and other near-infrared LEDs, as well as special laser sources.

## Technical Specifications

| Parameter | Specifications |
|---|---|
| Model | VL-NIRV-1600 |
| Spectral Response | 500 nm - 1600 nm |
| Min. Sensitivity Power Density | 1 µW/cm² @ 1064nm 1 mW/cm² @ 1310nm 7 mW/cm² @ 1550nm |
| Field of View (FOV) | 20° (with 50mm lens)　　30° (with 35mm lens) |
| Battery Type | 21700 Li-ion battery × 2 |
| Operating Time | 20 hours |
| Weight | 680 g |
| Dimensions | 180 mm × 210 mm × 70 mm |
| Operating Temp | -20　~ 50 |
| Storage Temp | -30　~ 65 |

## Product Performance Images



Detection and Imaging of 980nm Pump Light for EDFA

## Serivce & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

### 1. Warranty Policy

**Quality First, Worry-Free Operation**
**Warranty Period:** We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.
**Coverage:** We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.
**Rapid Response:** Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

### 2. Technical Support

**Expert Team, Full-Process Guidance**
**Technical Consultation:** Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.
**Scheduled Maintenance:** We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.
**Training Services:** We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

### 3. Logistics & Delivery

**Precision Packaging, Global Reach**
**Professional Packaging:** Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.
**Logistics Partners:** We partner with top-tier global logistics providers **(DHL / FedEx / UPS / SF Express)** to offer reliable shipping with real-time tracking.
**Shipping Insurance:** All shipments are fully insured to eliminate logistics risks.

### 4. Compliance & Certification

**Strict Standards, Total Compliance**
**Quality Certification:** Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE and RoHS.**
**Export Compliance:** "Committed to environmental responsibility, all our products comply with **RoHS 2.0 and REACH standards**, ensuring safety and global compliance."

## Explore Series

| Model | Operating Temperature | Dimensions | Weight | Storage Temperature |
|---|---|---|---|---|
| VL-NIRV-1600 | -20°C ~ 50°C | 180 mm × 210 mm × 70 mm | 680 g | -30°C ~ 65°C |

| | | | | | | |
|---|---|---|---|---|---|---|
| VenusLab-UWB-980nm | 0.026°+0.01/-0 | Hi1060 | 12*25.5mm | 0.15 | 3.21 | 15 |
| VenusLab-UWB-1064nm | 0.026°+0.01/-0 | Hi1060 | 12*25.5mm | 0.15 | 3.38 | 15 |
| VenusLab-UWB-1310nm | 0.036°+0.01/-0 | 9/125 | 12*25.5mm | 0.15 | 3.04 | 15 |
| VenusLab-UWB-1550nm | 0.042°+0.01/-0 | 9/125 | 12*25.5mm | 0.15 | 3.13 | 15 |

📥 Get in touch with our team to explore configurations,request a quote,or learn more about customized solutions tailored to your needs.

Let us help you moves cience forward—faster ands marter.

Get a Quote

Get Expert Advice
+65 8099 5547

Visit Us
www.venuslabtech.com