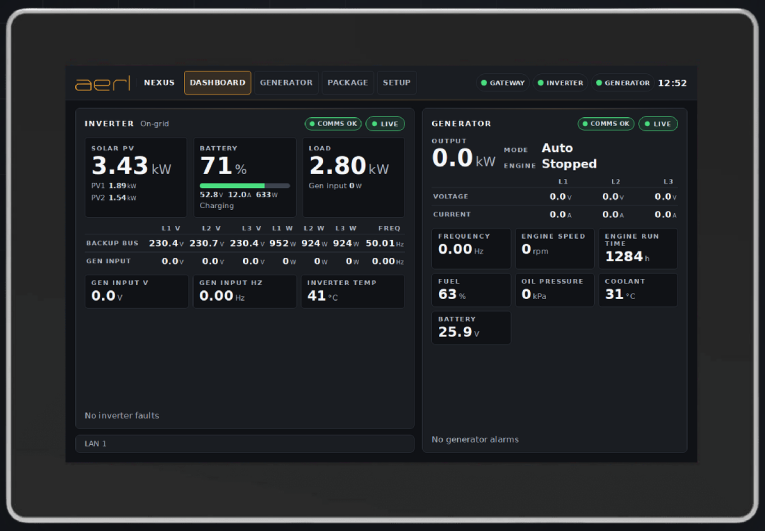
Nexus HMI

10.1" Sunlight-Readable Touch HMI



10.1 in
1280 × 800 IPS

1000 nits
Sunlight readable

IP65
Front protection

−20 → 70 °C
Operating temp.

Specifications

HMI-10 · NEXUS-HMI-10

The AERL Nexus HMI (HMI-10) pairs a 10.1″ high-brightness IPS panel and industrial-grade capacitive touch with an embedded Rockchip RK3568 computer in a single full-metal housing. It gives operators a local, sunlight-readable view of live system operation — inverter, battery, load and generator readings — directly at the installation.

Display & touch

Screen size	**10.1 in**
Resolution	**1280 × 800**
Panel	**IPS, normally black**
Luminance	**1000 cd/m²**
Viewing angle	**All directions**
Touch	**Capacitive, 10-point**
Backlight life	**30,000 h min.**

Mechanical

Dimensions	**260.4 × 177.4 × 37 mm**
Weight	**1.21 kg**
Enclosure	**Full metal**
Ingress	**IP65 (front)**
Mounting	**Panel or VESA 75 rear**
Operating temp.	**−20 to 70 °C**
Storage temp.	**−30 to 80 °C**

Computing

Processor	**RK3568 quad-core, 2.0 GHz**
Memory	**2 GB LPDDR4**
Storage	**32 GB eMMC**
Operating system	**Linux**

Power

Input voltage	**12–24 Vdc***
Consumption	**9.6 W typ.**

* 24 Vdc supplies need an in-line 12 V regulator; contact AERL.

Interfaces

Ethernet	**2 × Gigabit**
RS485	**2 ports**
CAN	**2 ports**
RS232	**2 ports**
Wireless	**Wi-Fi, Bluetooth, 4G LTE**
USB	**2 × USB-A, 1 × USB-C OTG**
Video out	**HDMI 1.4**

Readable in full sun

1000-nit IPS panel stays legible outdoors from any viewing angle.

Live system data on-site

Live inverter, battery, load and generator readings on a touchscreen at the cabinet.

Built for the field

IP65 front, full-metal body. Panel-mounts, or VESA 75 rear-mounts behind a switchboard door window.

Wide temperature range

Operates from −20 to 70 °C for unconditioned enclosures and plant rooms.

Supplied by

Australian Energy Research Laboratories
1/75 Bluestone Circuit,
Seventeen Mile Rocks QLD 4073

Ordering

Nexus HMI · model HMI-10 · part NEXUS-HMI-10

2-year warranty · RoHS

Contact

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