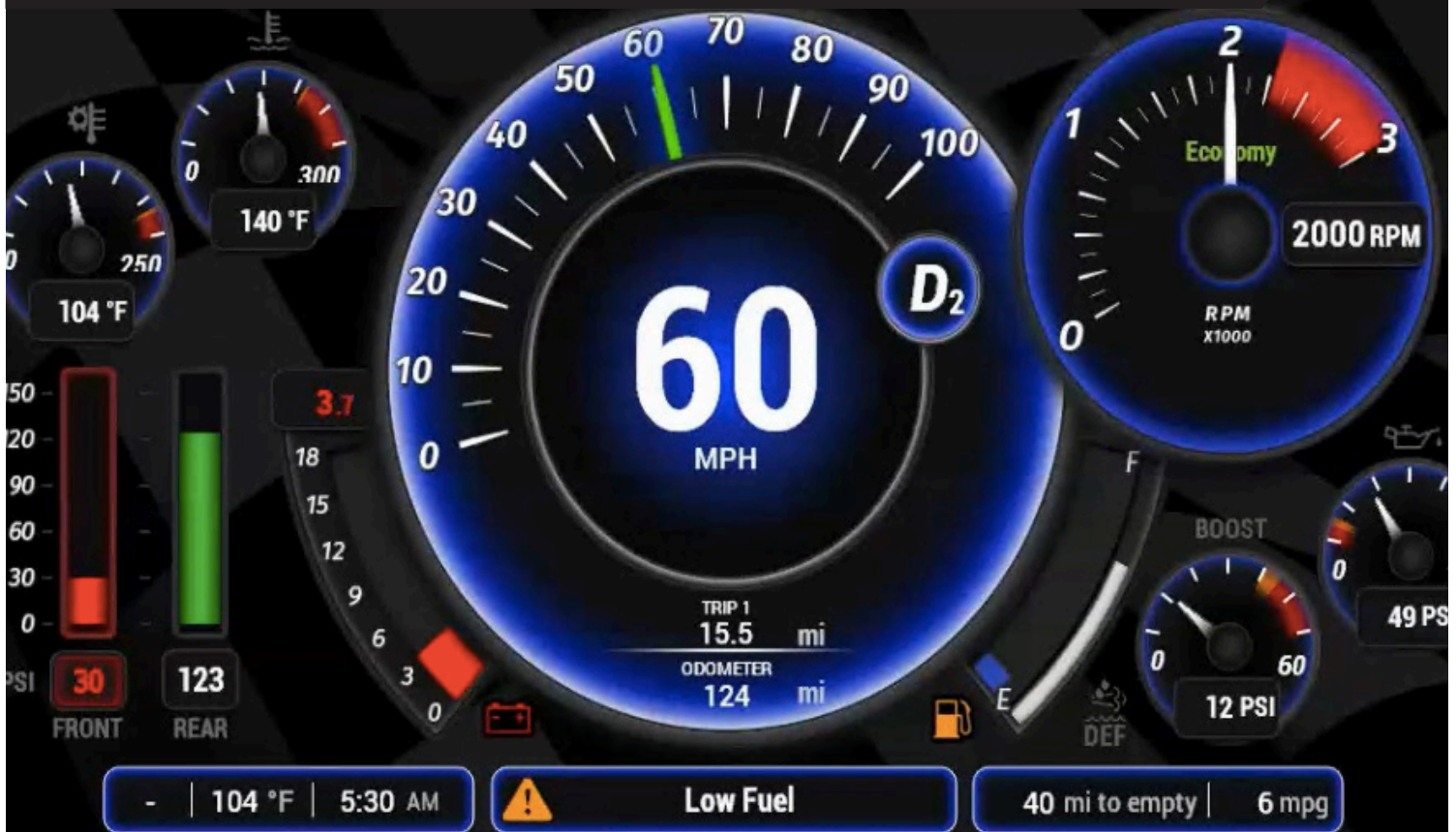# Instrument Cluster

Valid's Instrument Cluster is a digital graphics-based alternative to traditional instrument clusters. Inspired by the design of a luxury automobile's display systems, Valid's Instrument Cluster features a rich, intuitive interface, with graphics and information customized to suit your needs.
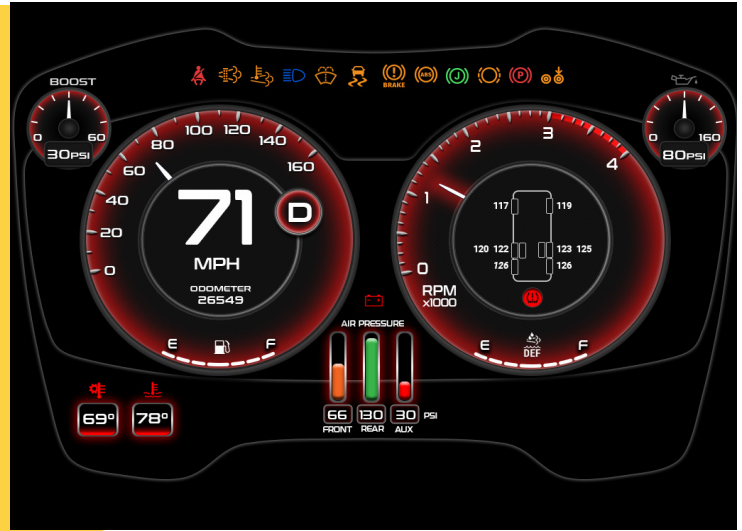
## ABSOLUTE CUSTOMIZATION

- **Valid's Instrument Cluster is completely customized to your requirements.**

- **Graphics are designed specifically with customer input to provide a truly unique product and branding.**

- **Available in 12.3" and 15," with other sizes also possible.**

- **Multiple input options are available:**

    - **rotary knob/joystick, touch screen, steering wheel paddles and buttons.**

## DRIVER CUSTOMIZATION

- Allow the driver to choose from a selection of background images and accent colours.

- The vertical position of the 15" display is adjustable.

- Brightness can be adjusted separately for day and night with a contrast enhancement for nnight mode. engine used in Tier 1 automotive applica- tions.

Multiple input options include rotary knob/joy-stick (above), touch screen, steering wheel paddles and buttons.

## ABSOLUTE INTEGRATION

- **Valid's Instrument Cluster unifies the display of information from both chassis and house systems into one visually-appealing interface.**

- **A large number of built-in I/O and connectivity options as well as an integrated fuel sender interface eliminates the need for additional modules simplifying wiring in most cases.**
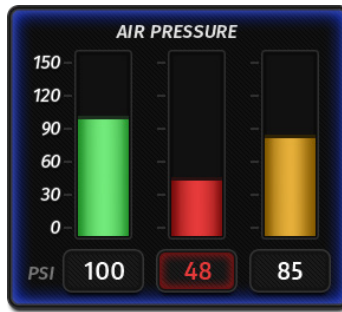
# INFORMATION DISPLAY

- Engine gauges/MIL
- Transmission
- Brake system
- Air system
- Tire pressure
- Suspension and leveling
- Fuel and trip information
- Diagnostics (OBD)
- Status of slide, step, door, etc.
- Battery voltages
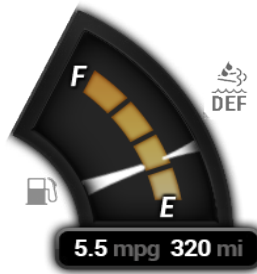- Generator/shore power status
- Camera video (IP)

This is not an exhaustive list!
Ask about additional options.



Choose how information is displayed –
needles, bars, symbols, words, or more.



Pre-drive checklist lets you know when it's safe to
drive. This display is completely configurable.


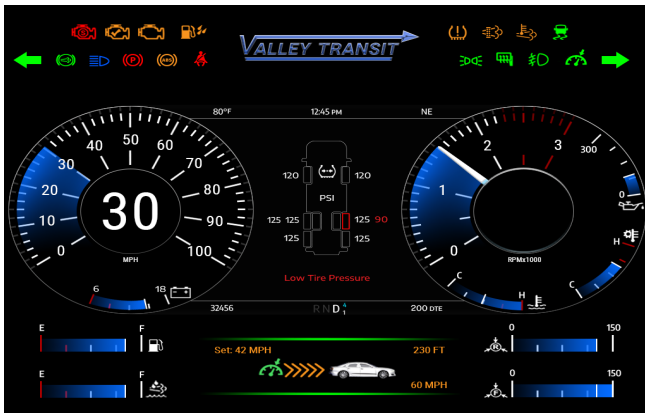
An integrated fuel sender interface
helps simplify wiring.



Battery power level.



Tire pressure.



## ABSOLUTE QUALITY

- A quad-core processor provides the power for the same type of graphics engine used in Tier 1 automotive applications.

- Wide operating temperature range.

- High native brightness display coupled with strengthened anti-reflective glass provides a durable, easy-to- read experience.

- Valid is well known in the industry for providing top-notch products and service. Our commitment to our customers continues long past product delivery.

**"When you select Valid as a supplier, you get a partner that is committed to your long-term success."**

1-888-632-6477   sales@validmfg.com   validmfg.com

# SPECIFICATIONS

- High brightness anti-reflective display avalailable in 12.1" (16:10), 12.3" (8:3) or 15" (4:3)

- Quad core graphics processor

- Dedicated I/O processor

- Dual CANbus (J1939 250k/500k and RV-C)

- Optional J1708 interface

- 3 digital outputs, 15 digital inputs, 4 analog inputs standard

- Fuel sender input (resistive)

- Ethernet, RS232

- Operating temperature -30°C to +70°C

- IP/digital camera display (analog supported via external encoder)

- Tire pressure monitoring interface (Pressure Pro J1939)

- On-board diagnostic decoded display

- Audio output via integrated speakers and warning buzzer

- Optional: expansion board (extra I/O, CANbus, other), J1708 interface, USB, WiFi and/or Bluetooth

The Valid Display System comes ready to install, and can be configured as a 12.1" (16:10), 12.3" (8:3), or 15" (4:3) display.

# FUTURE FEATURES

**The Instrument Cluster supports connectivity to the internet to provide the potential for enhanced content (weather, traffic, etc.) as well as remote monitoring, support and diagnostics (router required).**

**Upcoming Features:**

- Navigation information (arrival time, turn-by-turn, etc)

- Media info/control

- Phone info/control

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