7-inch display with IP69K-rated enclosure for harsh environments

Glass display surface offers enhanced clarity and strength

Optically-bonded, high-brightness screen for full sunlight viewability

Connect four video inputs and watch two feeds simultaneously

Glove-friendly touchscreen

IP69K-RATED GLASS-FRONT DISPLAY FOR THE TOUGHEST EQUIPMENT OF ALL SIZES AND CLASSES

For rugged applications of all sizes, the PowerView 700 is the perfect fit. With a 7-inch LCD screen, operators can get the full view of their equipment on a single all-weather display.

The PV700 is easily viewed in full sunlight and contains an optically bonded LCD inside its IP69K-rated case to keep it safe in all weather environments.

Equipped with a high-speed processor, the PV700 delivers high-quality graphics and animations for a rich user experience.

The PV700 is available in glass-front, glove-friendly touchscreen models to suit the needs of your application.

BUILT FOR POWERVISION

PowerVision Configuration Studio® software version 4.0+ lets programmers design stunning user interfaces, create intelligent applications with scripting and prototype quickly with a vast library of standard engine parameters.
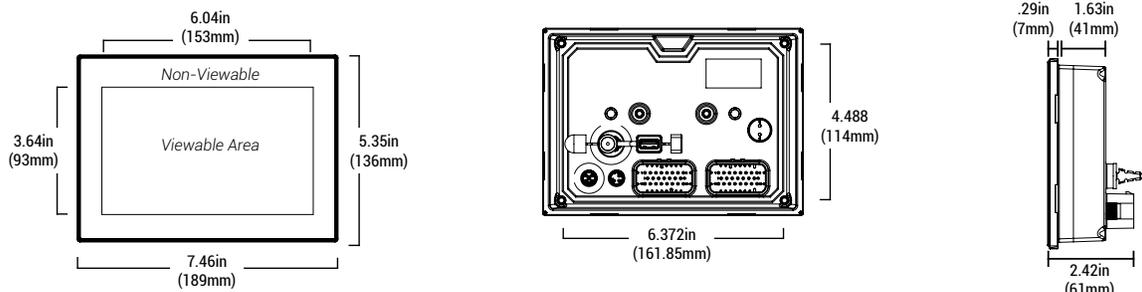
Tier 4 Final ready Stage IV

IP 69K

POWERVIEW® 700

DIMENSIONS

6.04in (153mm)
Non-Viewable
Viewable Area
3.64in (93mm)
5.35in (136mm)
7.46in (189mm)

6.372in (161.85mm)
4.488 (114mm)

.29in (7mm)   1.63in (41mm)
2.42in (61mm)

PRODUCT SPECIFICATIONS

COMPUTING

PROCESSOR	Renesas® R-Car M2 with Arm® Cortex®-A15 dual-core processor @ 1.5 GHz (32-bit)
STORAGE	8 GB flash memory
RAM	512 MB DDR3-SDRAM

DISPLAY

SCREEN SIZE	7-inch (178 mm)
TYPE	LVDS TFT LCD with LED backlight, 24-bit color
RESOLUTION	800 x 480 (WVGA)
CONTRAST RATIO	Typ. 600:1
BRIGHTNESS	1000 cd/m²
SURFACE	Anti-glare
TOUCH PANEL	Projected capacitive (PCAP) with glove touch

HARDWARE

REAL TIME CLOCK	Li-Ion battery backup (Typ. Lifespan minimum 10 years), non-rechargeable, non-replaceable
CONNECTORS	(2) AMPSEAL 23 pin (1) M12 5 pin [Ethernet] (1) M12 3 pin (unused) (1) USB pigtail
VIDEO INPUTS	(4) NTSC/PAL (dual-channel viewable)

COMMUNICATION

CAN	(2) CAN 2.0B according to ISO-11898-2; J1939 and proprietary messaging
USB	USB 2.0 full speed host
ETHERNET	1 X Ethernet 10/100 Base-T

ELECTRICAL

OPERATING VOLTAGE	6 – 36 VDC, reverse polarity protected Current Draw: - 12V Max: 1.073A - 12V Min: 0.762A - 24V Max: 0.661A - 24V Min: 0.495A
INPUTS	(3) Analog 0–5 VDC, 4-20 mA, resistive, 10-bit resolution (5) Discrete digital, active-high (1) Frequency in (2Hz–10kHz) 5V pk-pk min, 120V pk-pk max
OUTPUTS	(1) 500 mA switched low-side (1) Frequency output (2Hz–3KHz)

ENVIRONMENTAL

OPERATING TEMPERATURE	-40°C to +85°C (-40°F to +185°F)
STORAGE TEMPERATURE	-40°C to +85°C (-40°F to +185°F)
PROTECTION	IP66 and IP69K, front and back, for outdoor use
VIBRATION	7.86 Grms (5–2000Hz), 3 axes
SHOCK	±50G in 3 axes
EMC/EMI	SAE J1113, ISO 7637-2, ISO 11452, ISO 13766, ISO 16750-2, CISPR 25, EN 13309, CE Mark per 2014/30/EU (EN 61326-1 & EN 60945)

⚠ **WARNING**: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

FOR MODEL & PART INFORMATION
ENOVATIONCONTROLS.COM/PV700

FOR MANUAL & SUPPORT DOCUMENTS
SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY
ENOVATIONCONTROLS.COM/SUPPORT

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FM 29422 (UK)