



PowerView® U35 U35C-T-E-A0-QA & U35C-T-E-A0-QB (with mounting kit)

Installation Manual

To consistently bring you the highest quality, full-featured products, we reserve the right to change our specifications and designs at any time. The latest version of this manual can be found at support.enovationcontrols.com.

Warranty - A limited warranty on materials and workmanship is given with this Enovation Controls product.

A copy of the warranty may be viewed or printed by going to www.enovationcontrols.com/warranty



BEFORE INSTALLING THIS ENOVATION CONTROLS PRODUCT:

Read and follow all installation instructions.

Please contact Enovation Controls immediately if you have any questions.



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.

-Revision Table			
Date	Description	Date	Description
2025-09-05	Initial Draft		
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Hardware Installation

The following instructions will guide you through installing the PowerView® U35 display.

Inspecting Package Contents

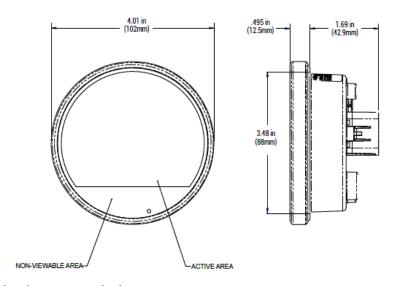
Before installing the product, it is recommended that you ensure all parts are accounted for and inspect each item for damage (which sometimes occurs during shipping). The items included in the box are:

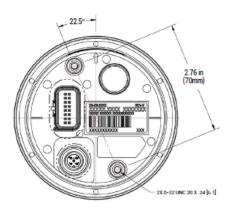
PowerView U35 3.5" unit

Surface-Mounted Installation

To properly mount the display, first prepare the dashboard:

- 1. Use the measurement diagram shown below to create a clearance cutout for the connectors.
- 2. Using the provided measurements drill two locating holes for the fasteners.
- 3. Secure the display to the panel using 8-32 fasteners. Thread depth on the display's brass inserts is 0.24". Do not use a locking adhesive that may be chemically incompatible with the plastic.





Hardware needed

• Two (2) 8-32 Fasteners

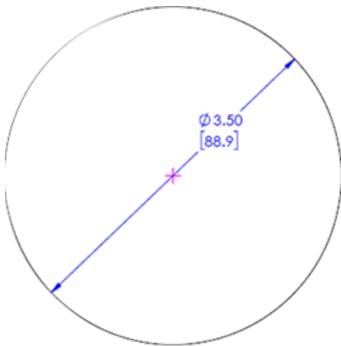
Tools needed:

Rotating drill with a bit size of 18 (0.169).

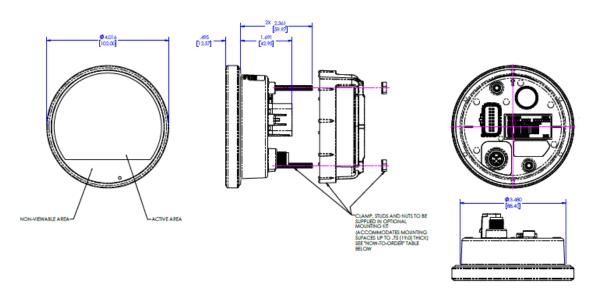
Flush-mounted Installation

Follow these instructions to install the display using the optional mounting kit (Bracket, Mounting Studs, Lock Nuts): Part Number 78001531, available through Enovation Controls.

1. Cut a mounting hole in the panel with the diameter shown in the true-to-size diagram shown below.



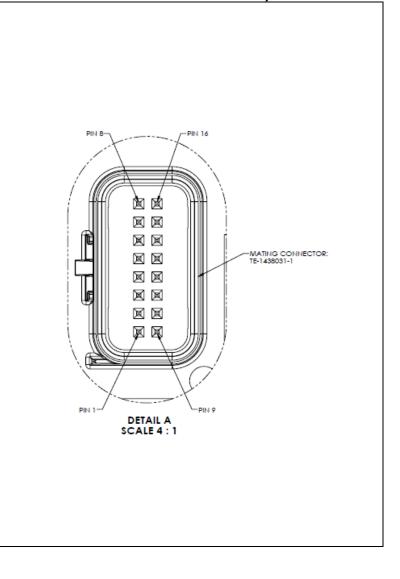
2. Insert the display from the front of the panel and use the mounting bracket with 8-32 locknuts to secure the display from the backside of the panel. These parts are supplied in the mounting kit.



Pinout Specifications

16Pin Connector A (Mating Connector AMP 770680-1 Black)

TOP III Connector A (Mating		
Pin	Function	
1	N.C.	
2	CAN Lo	
3	CAN Hi	
4	USB_N	
5	USB_P	
6	USB_VBUS	
7	USB_GND	
8	Battery	
9	N.C.	
10	N.C.	
11	N.C.	
12	N.C.	
13	N.C.	
14	USB_Shield	
15	Ignition	
16	GND	



IMPORTANT NOTE:



Use a suitably sized fuse or circuit breaker to protect the wiring and display/controller in the event of an overcurrent fault condition. Consult the product specifications to obtain maximum power consumption during normal operating conditions.

5 Pin Connector-D (Mating Connector M-12, Ethernet)

Pin	Function	
1	Ethernet TX_P	DETAIL B SCALE 4:1
2	Ethernet RX_P	
3	Ethernet TX_N	
4	Ethernet RX_N	
5	GND	

Software Platform

Display is shipped with a bootloader only. The customer must create their own custom applications using PowerVision Configuration Studio[®].

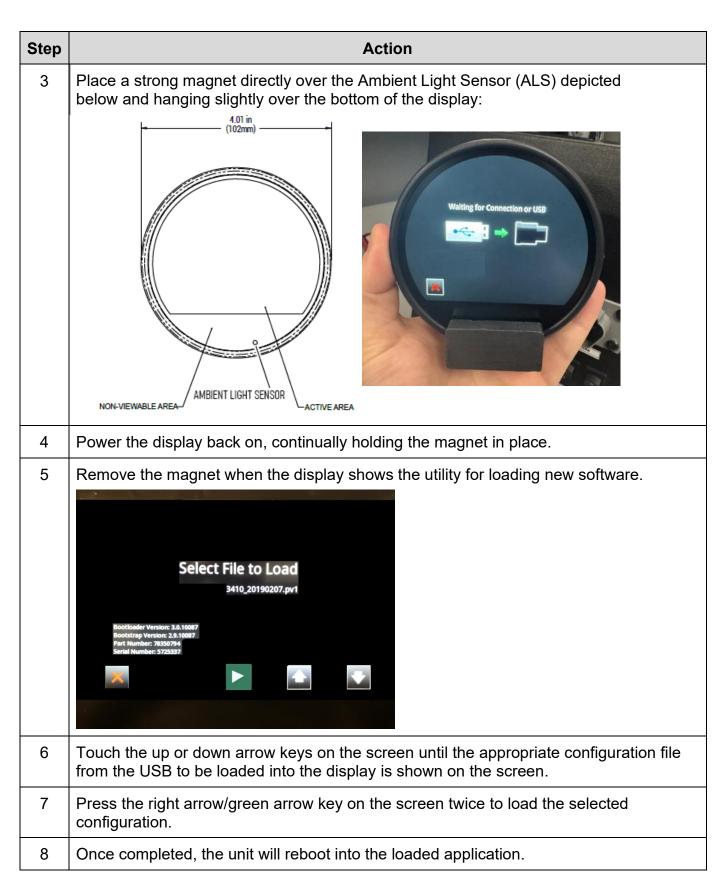
Demo Configurations / Examples available at support.enovationcontrols.com

Configuration Information

Follow these steps to download a custom configuration to the U35 display using a USB flash drive connected to the USB connector on the harness:

Step	Action	
1	Turn off the display.	
2	Insert the USB drive that contains the new configuration file into the USB pigtail on the harness.	

Continued



Specifications

Computing		
Processor	Dual-Core A7 Processor at 1.0 GHz	
Operating System	QNX® Realtime Operating System	
Storage	8 GB Flash Memory	
RAM	512 MB DDR3-SDRAM	
Material & Finish		
Bezel	Stainless Steel – Black Powder Coat	
Cover Glass	Soda Lime Glass, AG Etch	
Housing	Plastic – Black	
Display / HMI		
Screen	3.5-inch round, 24-bit color	
Resolution	640 x 516	
Contrast Ratio/Brightness	600:1 1000 cd/m^2	
Touch Panel	Projected capacitive (PCAP) with glove touch	
Surface	Anti-glare finish	
Ambient Light Sensor	Yes	
Interface		
CAN	(1) CAN	
USB	(1) USB 2.0	
Ethernet	(1) Ethernet	

Continued

Electrical/Environmental		
Operating Voltage	6-36 VDC, reverse polarity protected	
Operating Temperature	-22°F TO +158°F [-30°C TO +70°C]	
Storage Temperature	-40°F TO +185°F [-40°C TO +85°C]	
Protection	IP67	
Vibration	Swept Sine (10-2000-10Hz) 10g Peak, 3 Axis, Random (10-2000Hz) 8.17g RMS, 3 Axis	
Shock	±50G IN 3 Axis	
EMC/EMI	(2014/30/EU)	

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