

About NVR

Founded in 2009 in Silicon Valley, NVR is a leading provider of intelligent electronic control systems and IoT solutions. Committed to our mission "Better technology serves more people" we strive to deliver cutting-edge solutions that meet the evolving needs of our customers.



DP7300-A2 Display

DP7300-A2 is a high-reliability 10.1-inch intelligent central control display designed for construction machinery vehicles. It features a capacitive touchscreen and a rich set of interfaces, including one USB port, two CAN buses, and one Gigabit Ethernet interface. The display supports up to four cameras with simultaneous split-screen display, and integrates an audio amplifier and microphone for full multimedia audio functionality.

The device supports optional wireless modules, including Bluetooth, Wi-Fi, 4G, and GPS, enabling hands-free calling, streaming media playback, and remote positioning.

DP7300-A2 uses a wide-voltage power supply (DC 8–36 V) and offers robust hardware protection, having passed multiple stringent environmental tests. With an operating temperature range of -30°C - $+80^{\circ}\text{C}$ and IP65 protection, it reliably withstands extreme temperatures, dust, and humidity. The display is ideal for excavators, wheel loaders, mining trucks, and other heavy machinery operating in harsh environments.



— Features

- 10.1-inch industrial-grade, high-reliability capacitive touchscreen
- USB, dual CAN, Gigabit Ethernet, and four-channel synchronous camera display interfaces
- Integrated audio amplifier and microphone, supporting Bluetooth hands-free calling and multimedia playback
- Optional wireless communication modules including Bluetooth, Wi-Fi, 4G, and GPS
- Wide-voltage DC 8 - 36 V input, verified through rigorous environmental reliability testing
- IP65 protection rating, designed for harsh and extreme operating conditions

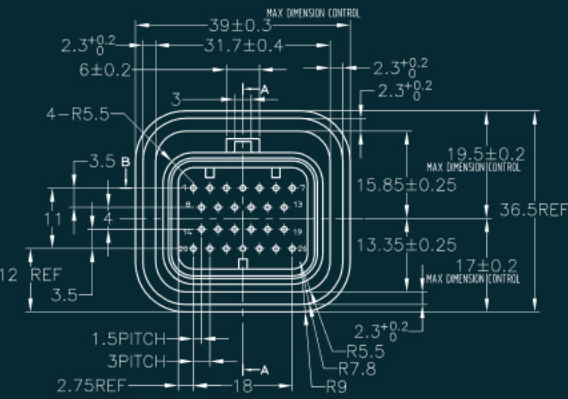
— Specifications

Category	Description
LCD Size	10.1 Inches
Resolution	1280 × 800
Display Type	TFT
LCD Brightness (Cd/m ²)	850
Viewing Angle (L/R/T/B)	80 / 80 / 80 / 80
Touchscreen	✓
CPU	Cortex - A55
Operating System	Linux
Video Input	4-6 Channels
Operating Voltage	8 - 32 V
CAN Communication	2-4 Channels
Serial Communication	✓
USB	✓
WiFi	✓
OTA	✓
Dimensions (mm)	162.4×254.2×39.4 mm
Weight	1.5 kg ± 0.01 kg

Category	Description
Connector	AMP 26 Core 1437288-6
Protection Rating	IP65
Operating Temperature	-30 °C - +80 °C
Storage Temperature	-40 °C - +80 °C
Environmental Testing	ISO 16750-4:2010, IEC 60068-2-11:2021, ISO 16750-3:2012
Electrical Performance Testing	ISO 16750-2:2012
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 13766-1:2018

— Connector & PIN Definition

Connector Model:AMP 26-pin connector, part number 1437288-6



NO.	Pin	Definition
1	ACC	Ignition Power (Key ON)
2	GND	Power Ground
3	AUD_L	AUD
4	AUD_R	AUD
5	ETH_RX_P	Ethernet RX+
6	ETH_RX_N	Ethernet RX-

No.	Pin	Definition
7	AUD_L-	AUD
8	CAN1H	CAN1
9	CAN1L	CAN1
10	AUD_GND	AUD
11	CAN0H	CAN0
12	CAN0L	CAN0
13	AUD_R-	AUD
14	+12V_CAM_3/4	Camera 3 & 4 Power Supply
15	CAM4	Camera 4 Signal
16	GND_CAM4	Camera 4 Ground
17	ETH_TX_P	Ethernet TX+
18	ETH_TX_N	Ethernet TX-
19	B+	Battery Power (Constant Power)
20	CAM3	Camera 3 Signal
21	GND_CAM3	Camera 3 Ground
22	CAM2	Camera 2 Signal
23	GND_CAM2	Camera 2 Ground
24	CAM1	Camera 1 Signal
25	+12V_CAM_1/2	Camera 1 & 2 Power Supply
26	GND_CAM1	Camera 1 Ground

— Dimensions

