

— 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 "NVR is your electrification partner" we strive to deliver cutting-edge solutions that meet the evolving needs of our customers.



Boom Lift Control Box

Boom lift control system series: Includes both platform control units and ground control units, suitable for various types of MEWPs such as telescopic boom, articulated boom, and spider lifts.



— Features

- **Highly Customizable:** Customizable components, including displays, controllers, control box, membrane, and joystick, to meet diverse requirements.
- **Advanced Control Capabilities:** Equipped with extensive digital and analog I/O interfaces to fully support the complex control needs of boom lifts.
- **High Reliability:** The control box is made of sheet metal, ensuring high protection standards and reliable operation in harsh conditions.

Platform Control Box Series

Product Model	BP1100	BP1102	BP1108	BP2000
Product Image				
Control Box Dimensions (mm)	590×270×140.5	620×350×145.5	698.5×308×166	600×268.1×158.2
Controller Model	PC1000, PC1400, PC3000, PC7100			
Control Box Material	Sheet Metal			
Protection Rating	IP65			
Operating Ambient Temperature	-30℃ ~ +70℃			
Storage Ambient Temperature	-40℃ ~ +85℃			
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019			

— Ground Control Box Series

Product Model	BS1100	BS1102	BS1108	BS2000
Product Image				
Control Box Dimensions (mm)	700×350×135	294.12×410×270.5	340×380×180	444.7×406×175
Display Model	DP1300-7	DP1300-7	DP1300-7	DP201
Controller Model	PC7100, PC7300, PC7500, PC7151			
Control Box Material	Sheet Metal			
Protection Rating	IP65			
Operating Ambient Temperature	-30°C ~ +70°C			
Storage Ambient Temperature	-40°C ~ +85°C			
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019			

— Programmable Controller Series

Product Model	PC1000	PC7100	PC7300
Product Image			
Rated Voltage	12 V / 24 V	12 V / 24 V	12 V / 24 V
Operating Voltage	9 ~ 32 V	9 ~ 32 V	9 ~ 32 V
Standby Current	0.1A@12V	0.12A@12V	0.19A@12V
Full Load Current	8 A	30 A	45 A
Pin Count	64 pin	121 pin	154 pin
Max Input Port	36 Channels	60 Channels	76 Channels
Max Output Port	20 Channels	42 Channels	44 Channels
CAN Communication	1 Channel	3 Channels	4 Channels
Development Language	C	C	Codesys / Simulink
Housing Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Dimensions (mm)	158.6×128.5×47.1	240.6×220×43.6	203×204.5×37.9
Weight	0.32±0.1 kg	1.39±0.1 kg	0.81±0.1 kg
Connector	BS05	TE 1746979-1	BS943
Production Certification	CE, FCC, UL	CE, FCC, UL	-
Protection Rating	IP65	IP67	IP67
Operating Ambient Temperature	-30°C ~ +70°C	-40°C ~ +85°C	-40°C ~ +85°C
Storage Ambient Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +105°C

Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010
Electrical Performance Testing	ISO 16750-2:2012
EMC Testing	ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019
Safety Standards	Engineered to meet the EN ISO 13849-1:2023 functional safety standard

— Display Series

Product Model	DP201	DP1000-4	DP1300-7
Product Image			
LCD Size	3.2 Inch	4.3 Inch	7 Inch
Resolution	128×64	480×272	800×480
Display Type	LCD	TFT	TFT
LCD Brightness (cd/m²)	400	500	1000
Viewing Angle (L/R/T/B)	45 / 45 / 30 / 60	80 / 80 / 80 / 80	70 / 70 / 60 / 70
Touchscreen	-	Optional	-
CPU	Cortex - M33	Cortex - M7	Cortex - M7
Operating System	-	RT-Thread	RT-Thread
RTC	✓	✓	✓
Operating Voltage	9 ~ 32 V	12 ~ 96 V	9 ~ 32 V
Max Input Port	6 Channels	11 Channels	3 Channels

Max Output Port	3 Channels	-	1 Channel
CAN Communication	1 Channel	1 Channel	2 Channels
Serial Communication	-	1 Channel SCI	-
USB	✓	-	✓
Wi-Fi	Optional	Optional	Optional
OTA	✓	✓	✓
Dimensions (mm)	115×131×50.9	160×102×42	230.3×141.9×44.2
Weight	0.25±0.1 kg	0.37±0.1 kg	0.65±0.1 kg
Connector	TE 776262-1	TE 770583-1	TE DT06-12SA
Protection Rating	IP67 (Front) IP65 (Back)	IP66 (Front) IP40 (Back)	IP67 (Front) IP65 (Back)
Operating Ambient Temperature	-20°C ~ +70°C	-40°C ~ +70°C (Heater) -20°C ~ +70°C (No Heater)	-30°C ~ +70°C
Storage Ambient Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Environmental Testing	ISO 16750-4:2010, IEC60068-2-11:2021, 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		