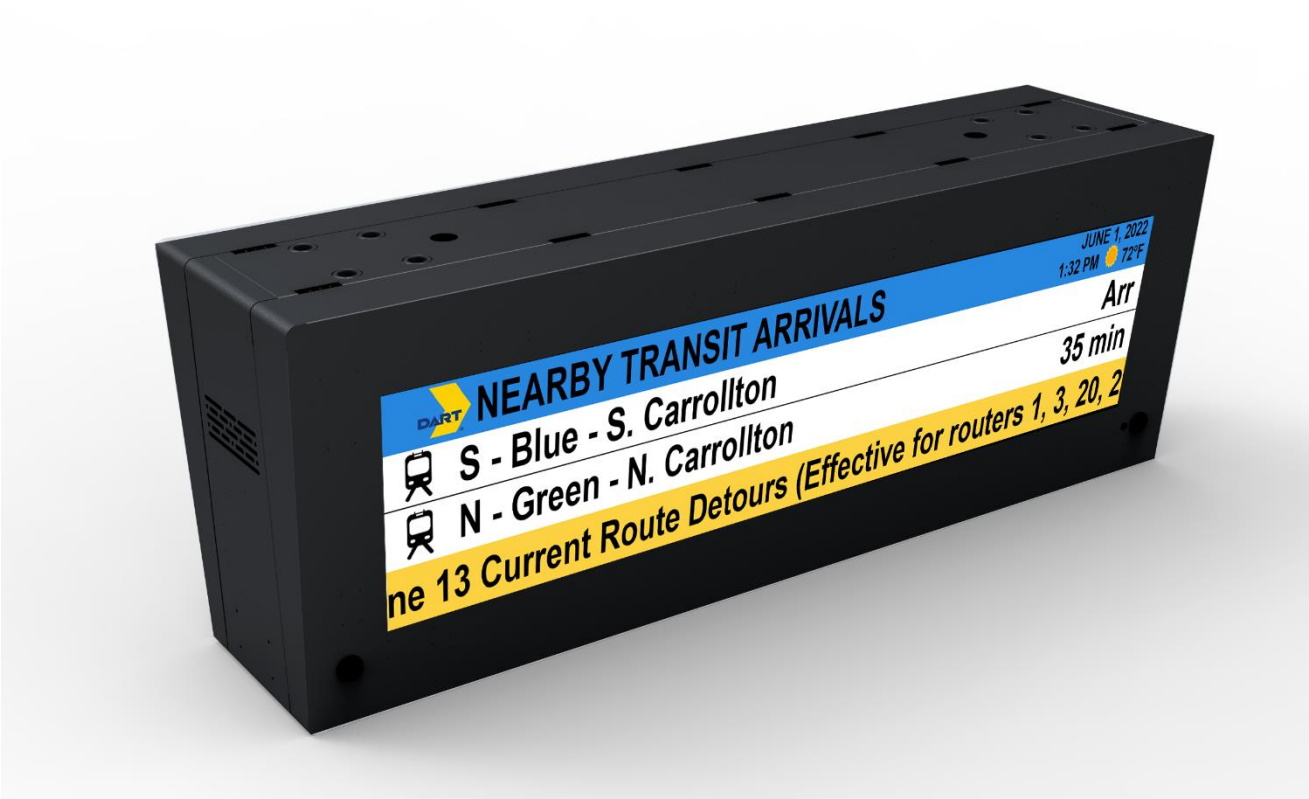
NANOV Display Inc.

42.8” Real-Time Stretched Outdoor Double-Sided Tilted Public Information Display System (PIDS)



Model: NBADH-428LC-325-STL

- ✓ Tamper-proof tempered glass over 42.8” stretched screen
- ✓ Sunlight readable, HVAC (Heater, Ventilation, Air Circulation)
- ✓ Anti-reflection coating on glass, condensation free
- ✓ UL48 Outdoor Sign compliance: Dust proof, Rain Proof
- ✓ Commercial, maintenance-ready design, built-in IP Camera Mount
- ✓ Powdered steel IP65 enclosure structure
- ✓ Embedded Intel NUC I-5 Processor

Proprietary Notice

Screen

Parameter	Specification
Video Orientation	Landscape
Screen Dimensions	1039.6 mm (W) x 259.9 mm (H) (40.9 inches x 10.2 inches)
Enclosure Dimensions	1226 mm (W) x 449.6 mm (H) x 321.2 mm (D) (48.3 inches x 17.7 inches x 12.6 inches)
Resolution	1920 x 480 pixels
Color	1.06 billion colors (10-bit)
Dimming	50-100% automatic dimming
Calibrated Intensity	1500 Cd/m^2
Color Temperature Modes	Warm / Medium / Cool
Refresh Rate	120 Hz
Contrast Ratio	4,000:1 (Typical);
Viewing Angle	178 degrees (side/side) 178 degrees (up/down)

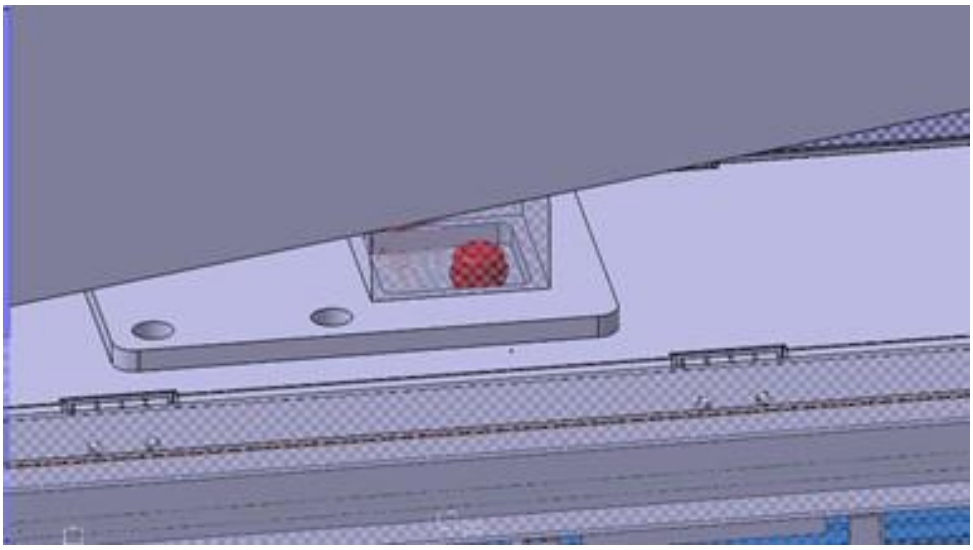
Power, Computer & Electronics

Parameter	Specification	
Power Consumption	220 W	
Embedded computer	CPU	Intel NUC I-5 Processor
	RAM	8 GB
	Storage	128 GB
	OS	Windows 10 IoT Enterprise
Inputs / Outputs	1) HDMI, DVI (720p/1080i/1080p) 2) Component/Composite 3) USB 2.0 4) PC Input via 15-pin 5) LAN (RJ45, CAT6) 6) Ethernet 7) RS-232C 8) LTE Modem	
On Screen Display (OSD)	English	
Hardware Maintenance Software	Installed networking module to control hardware	

System Level Design & Durability

Parameter	Specification
Rated Operating Conditions	Temperature: -20℃ to +70℃ Humidity: 20% to 80%
Heating, Ventilation & Air Circulation (HVAC)	Automated system for heating & cooling with active air inflow & exhaust *[patent pending]*
External Housing	• Fully sealed, weather-proof IP65 rated enclosure • Powder coated surface treatment • Available finishing materials: Stainless steel, Aluminum, Architectural glass
External Color	Black
Glass	Tempered glass, anti-reflection, head reductive film, 1% max haze, anti-vandal
Certifications	FCC, UL48, UL879, UL60695, ULE216813, IK10
Warranty	36 Months
Mean Time Between Failure	50,000 hours
Electric Sign Controller Health Monitoring System [Model: NRMCB-300]	Controller interface: - Environmental control via IoT sensors • (2) Temperature sensors • (1) Ambience sensor • (1) Moisture sensor • (1) Pixel moving sensor to detect screen activity • (1) Door sensor for enhanced security - Sequential power booting program • Computer power reset • LCD panel reset • Heater and fans on/off

Concept Drawing



Nanov Sign Controller

General Description

The Nanov Sign Controller is a critical component of the LCD signs.The controller consists of two boards: the Main board and the Power board. The hardware controlling capabilities are as follows:

- Brightness & environment sensors (auto brightness control)
- Temperature sensors (measures internal temperature for auto fan speed control)
- Power reset: Modem, Computer, Panel, Fan/Heaters
- Detects when a sign is non-operational via AD board signal
- Detects when a sign is not communicating via modem for autoping/reset
- Alarm via email or text

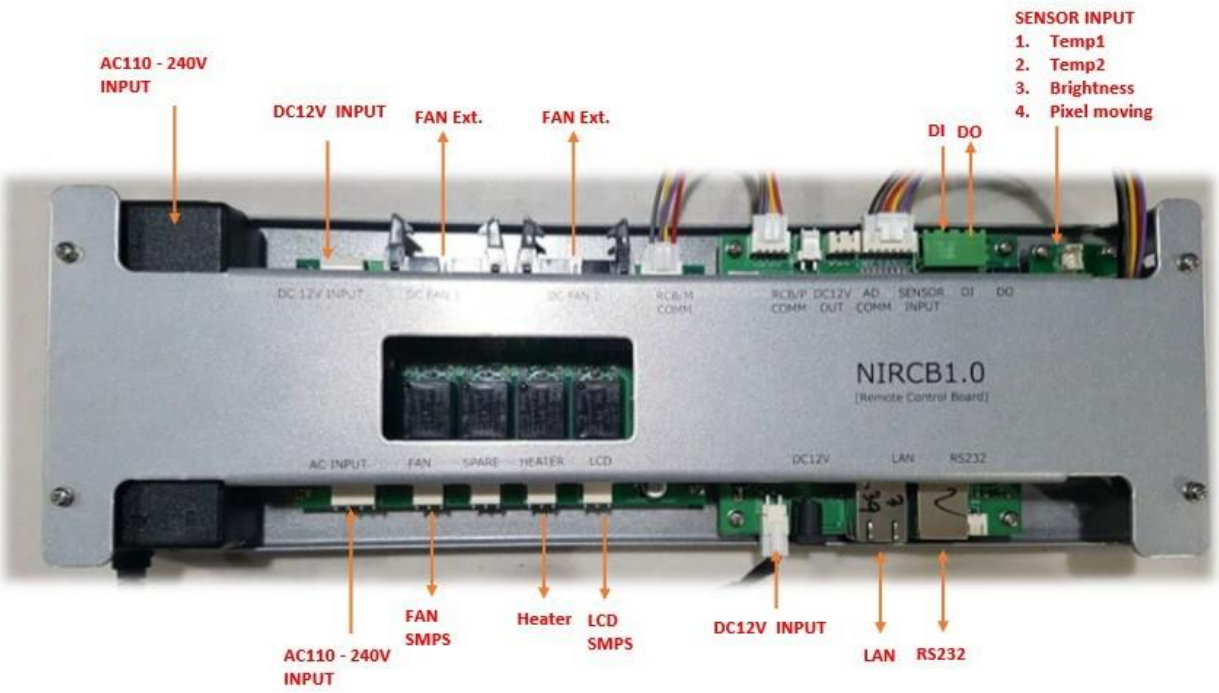
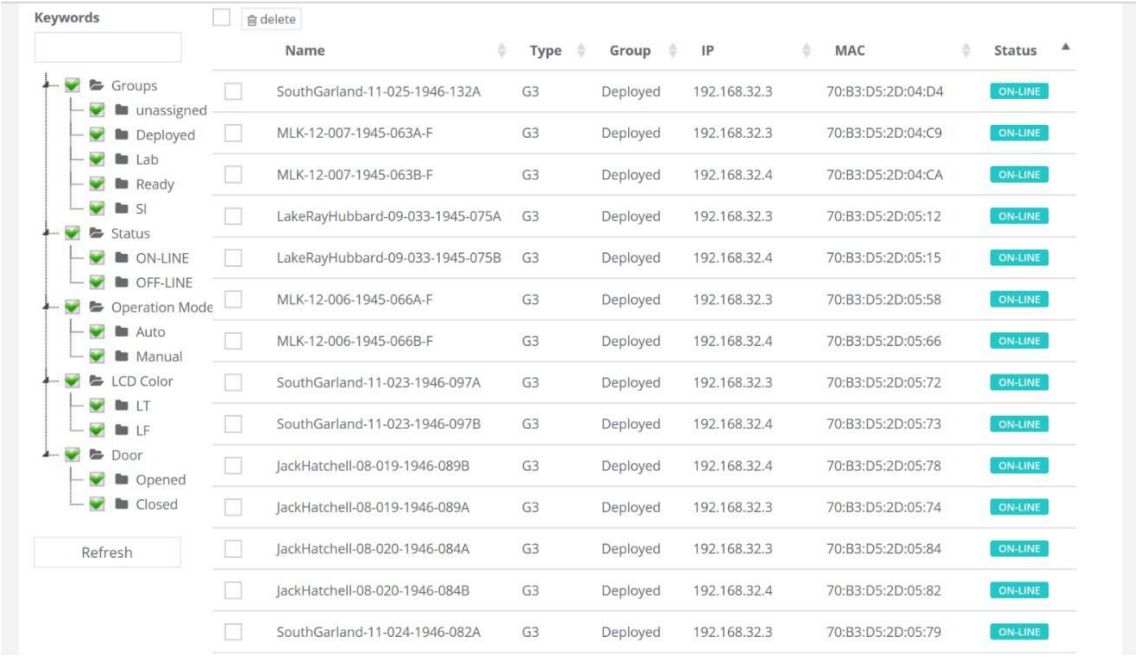
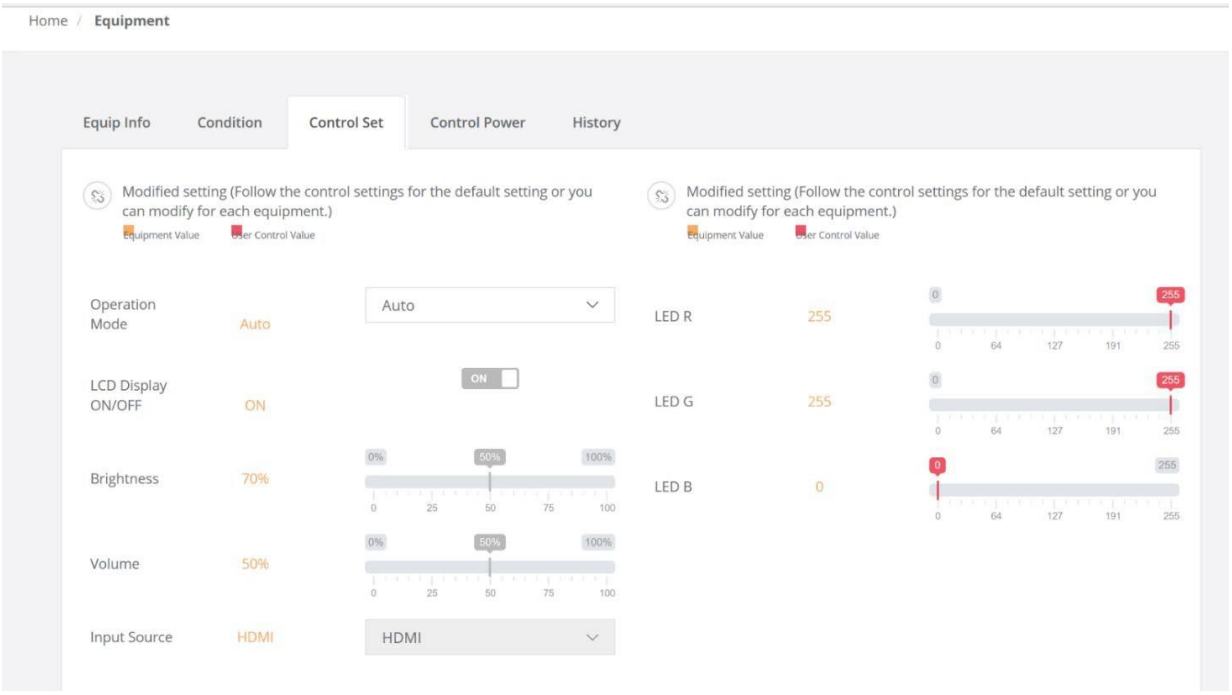


Fig. 1- NRMCB-300 Nanov Sign Controller

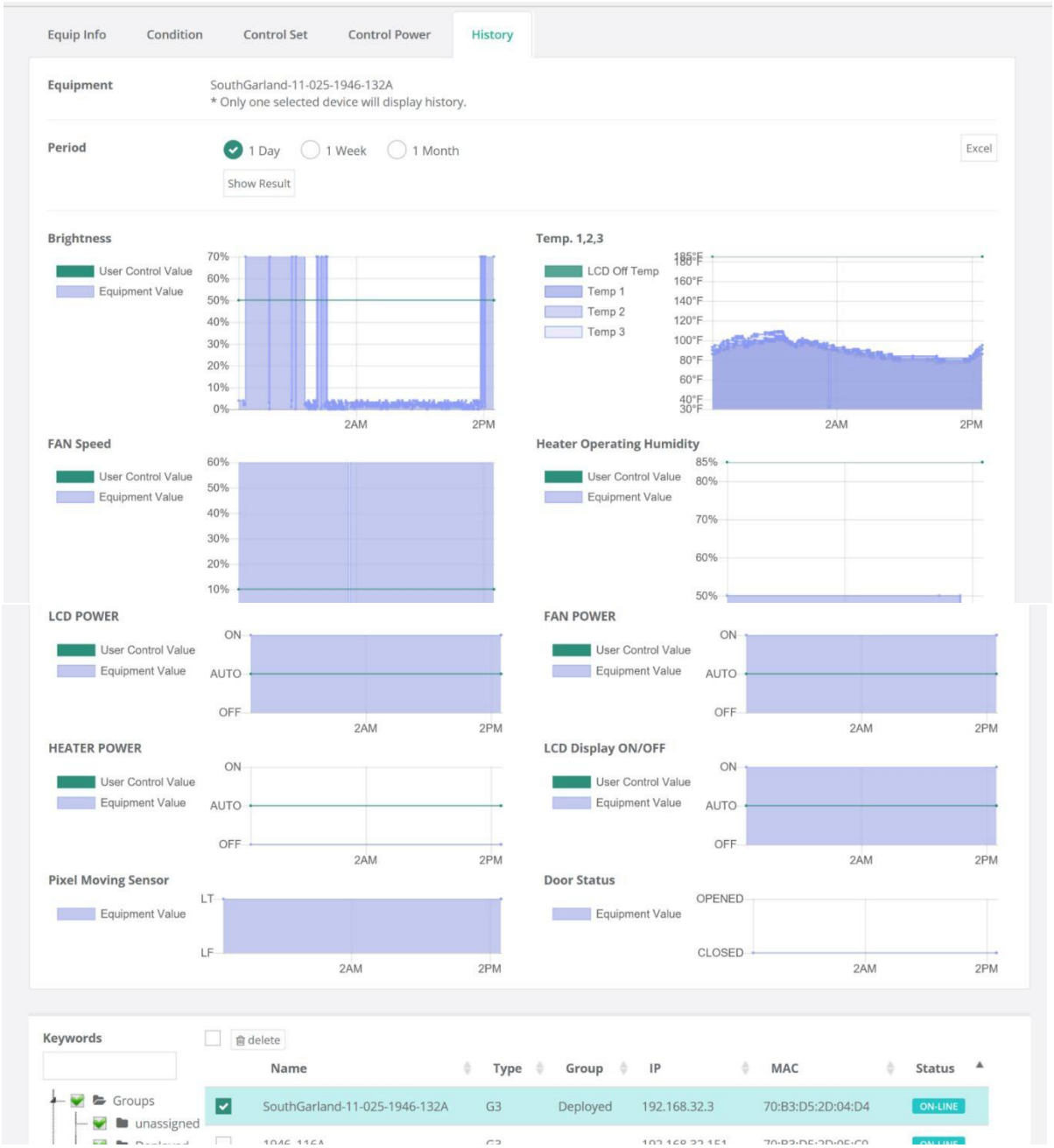
Remote Health Monitoring System Dashboard



LCD Signs Control



Archive History



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