



85" Outdoor Dual-Sided Digital Sign (one side LCD screen, other side LED poster)



Features: Model: NIADK-850P-496-YVR, Portrait

- ✓ 85" weatherproof/outdoor LCD screen
- ✓ LED backlit static poster sign inside bus shelter
- ✓ Tamper-proof, anti-reflection, tempered glass
- ✓ Sunlight readable 3000cd, high brightness LCD screen
- ✓ Heavy duty custom enclosure
- ✓ HVAC - Heater, ventilation, and air circulation
- ✓ Hardware health monitoring system – Temperature, Brightness

Proprietary Notice

The information disclosed herein contains proprietary rights of Nanov Display, Inc. (Nanov) and is confidential. Neither this document nor the information disclosed herein shall be reproduced or transferred to other documents. Nor shall the information be used or disclosed to others for manufacturing or any other purposes except as specifically authorized in writing by Nanov.

Copyright© 2020 Nanov Display, Inc. All rights reserved.

LCD Screen (Front)

Parameter	Specification
Video Orientation	Portrait
Active Screen Dimensions (Width x Height)	1047mm x 1861 mm; (41.2in. x 73.3in.)
Enclosure Dimension (Width x Height x Depth)	1270mm x 2184mm x 297mm; (50.0in. x 86.0in. x 11.7in.)
Resolution	1080 x 1920 pixels
Color	16.7 million colors (8-bit)
Dimming	50-100% automatic dimming
Calibrated Intensity	3000 Cd/m ²
Color Temperature Modes	Warm / Medium / Cool
Refresh Rate	60 Hz
Contrast Ratio	1400:1
Viewing Angle	178 degrees (side/side) 178 degrees (up/down)
Burn Time (one static image)	30 min
Touch Interactivity [Optional upgraded model]	<ul style="list-style-type: none"> a) Projected Capacitive (PCAP), Multi-touch b) Works with bare fingers and gloved fingers c) High positional accuracy (2.5mm typical) d) 92% - 100% light transmission through PCAP e) Less than 10 ms response time [Touch Panel Manufacturer: Zytronic]

LED Backlit Screen (Top & Back)

Parameter	Specification
LED Screen size (Top)	1143mm x 76mm (Dual sides)
LED Poster size	1700mm x 1135 mm x 20.8mm
Enclosure Dimension (Width x Height x Depth)	1270mm x 2184mm x 297mm; (50.0in. x 86.0in. x 11.7in.)
LED Rank	A5 P2 S2
	A5: 3.2 – 3.2 /VF (V)
	P2: 6500/CCT (K)
	S2: 57.3 – 61.3 Lm
LED model	Samsung 2835 Package

Power, Computers & Electronics

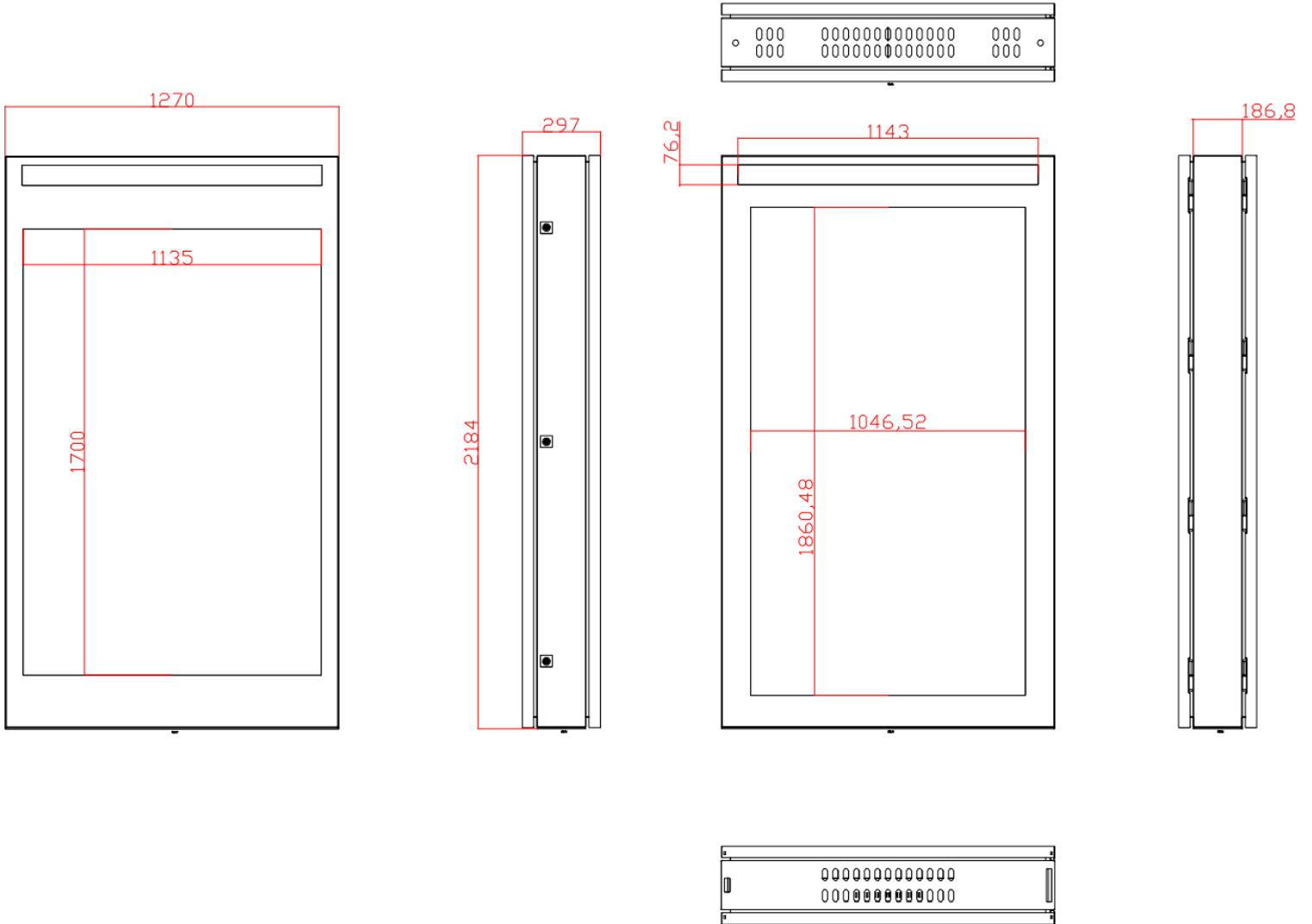
Parameter	Specification	
Power Consumption	1300 W (Average); 1500 W (Maximum)	
[Optional] Embedded computer	CPU	Intel NUC i-5 Processor 1.8 GHz Dual Core
	RAM	8 GB
	Storage	128 GB SSD
	OS	(Linux) Ubuntu 14.04 Server Ed.
Inputs / Outputs	1) HDMI, DVI (720p/1080i/1080p) 2) Composite Video Input 3) PC Input via 15-pin Sub 4) LAN (RJ45, Cat 6) 5) RS-232C Expandable per request: LTE Modem, Switcher, Wi-Fi Module	
On Screen Display (OSD)	English (default)	
Hardware Maintenance Software	Installed networking module to control hardware	

System Level Design & Durability

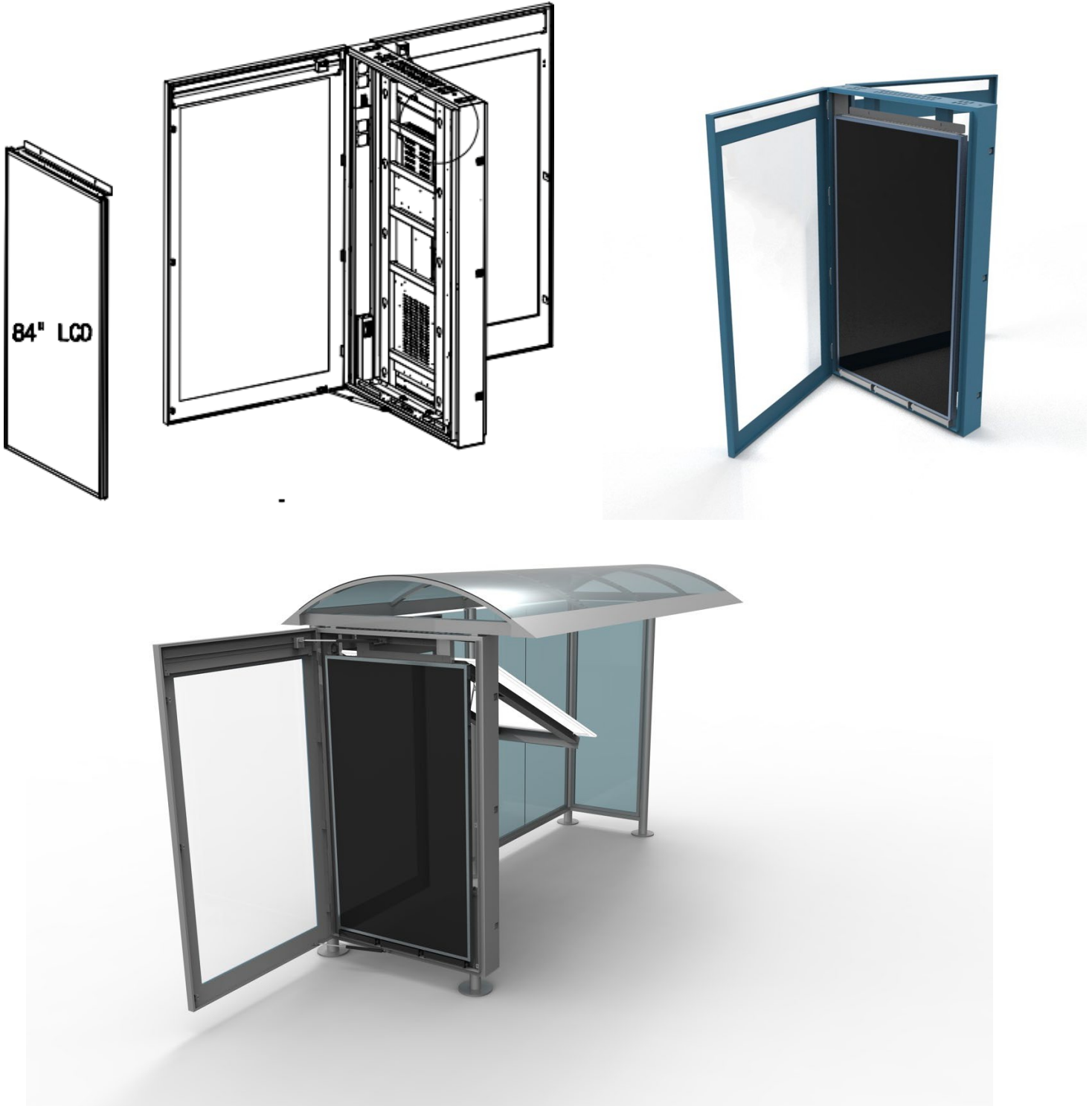
Parameter	Specification
Rated Operating Conditions	Temperature: -30°C to +45°C Humidity: 20% to 80%
Heating, Ventilation & Air Circulation (HVAC)	Automated system for heating & cooling with active air inflow & exhaust <i>[patent pending]</i>
External Housing	Fully-sealed, weather-proof enclosure Powder coated surface treatment Available finishing materials: Stainless steel, Aluminum, Architectural glass
Glass	Anti-glare, 1% max haze, anti-vandal, tempered glass.
Certification	FCC
Warranty	36 Months
Mean Time Between Failure	30,000 hours
Electric Sign Controller Health Monitoring System [Model: NRMCB-300]	Controller interface: <ul style="list-style-type: none"> - Environmental control via IoT sensors <ul style="list-style-type: none"> • (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 <ul style="list-style-type: none"> • Computer power reset • LCD panel reset • Heater and fans on/off

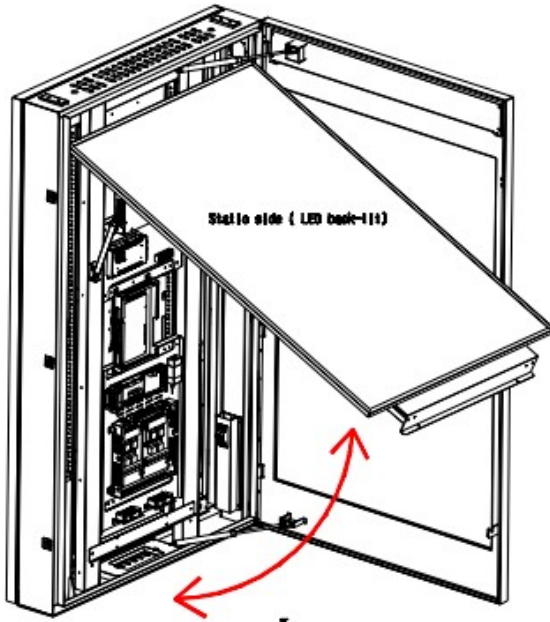
Physical Dimensions

Total System Weight: 280 kg per unit

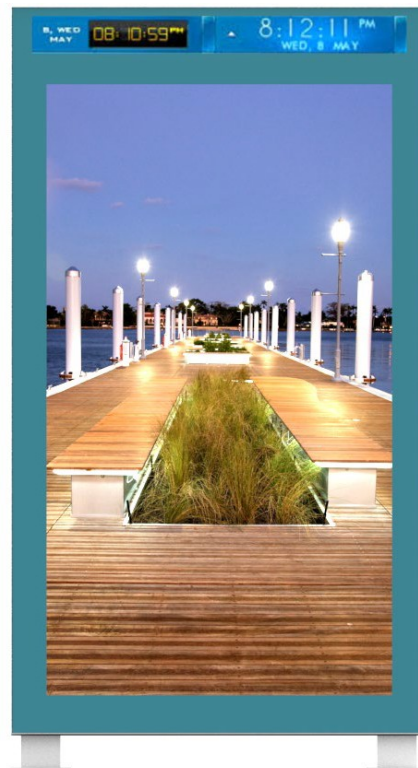


LCD Screen Maintenance Concept





Concept Drawing



Nanov Sign Controller

General Description

Nanov Sign Controller is the critical component of the LCD signs. The controller consists of two boards: the main board and power board. The hardware controlling capacity are as follows:

- Brightness sensor- Auto brightness control vs environment sensor
- Temperature sensors- Auto fan speed control vs internal temperature
- Power reset: Modem, Computer, Panel
- Detect when a sign is non-operational via AD board signal
- Detect when a sign is not communication via modem -auto ping/reset
- Alarm via email or text

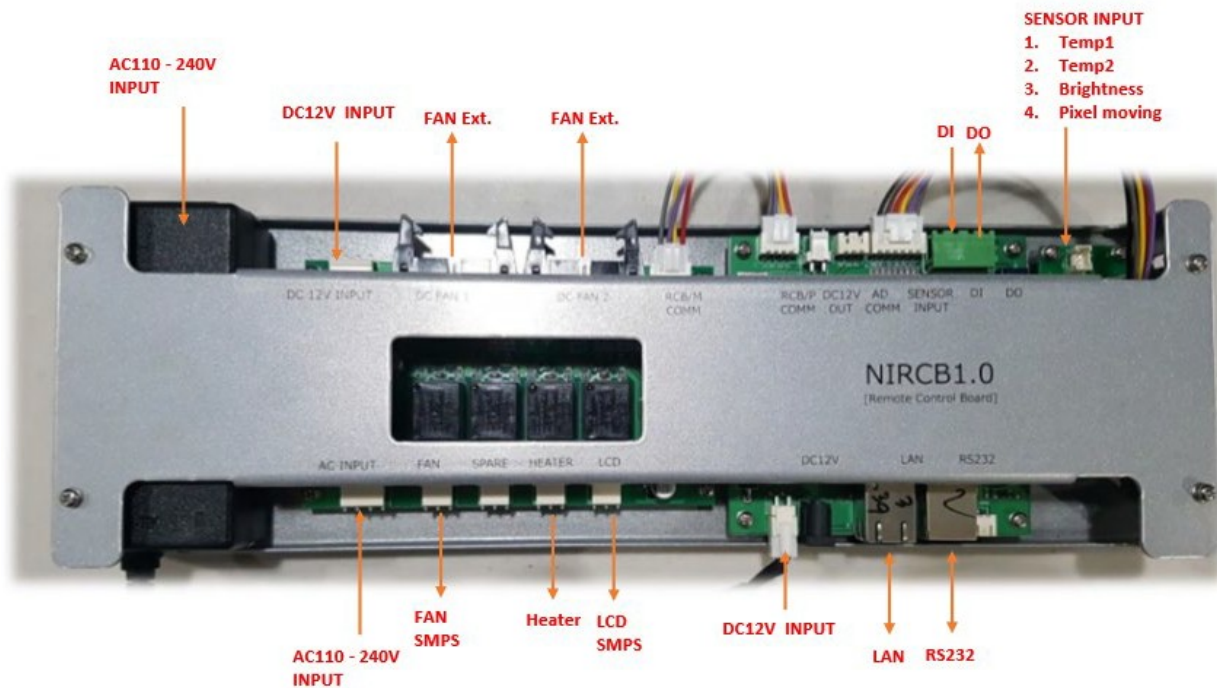


Fig. 1- NIRCB1.0 Nanov Sign Controller

Remote Health Monitoring System Dashboard

Keywords delete

	Name	Type	Group	IP	MAC	Status
<input checked="" type="checkbox"/> Groups						
<input checked="" type="checkbox"/> unassigned						
<input checked="" type="checkbox"/> Deployed						
<input checked="" type="checkbox"/> Lab						
<input checked="" type="checkbox"/> Ready						
<input checked="" type="checkbox"/> SI						
<input checked="" type="checkbox"/> Status						
<input checked="" type="checkbox"/> ON-LINE						
<input checked="" type="checkbox"/> OFF-LINE						
<input checked="" type="checkbox"/> Operation Mode						
<input checked="" type="checkbox"/> Auto						
<input checked="" type="checkbox"/> Manual						
<input checked="" type="checkbox"/> LCD Color						
<input checked="" type="checkbox"/> LT						
<input checked="" type="checkbox"/> LF						
<input checked="" type="checkbox"/> Door						
<input checked="" type="checkbox"/> Opened						
<input checked="" type="checkbox"/> Closed						
<input type="button" value="Refresh"/>						
<input type="checkbox"/>	SouthGarland-11-025-1946-132A	G3	Deployed	192.168.32.3	70:B3:D5:2D:04:D4	ON-LINE
<input type="checkbox"/>	MLK-12-007-1945-063A-F	G3	Deployed	192.168.32.3	70:B3:D5:2D:04:C9	ON-LINE
<input type="checkbox"/>	MLK-12-007-1945-063B-F	G3	Deployed	192.168.32.4	70:B3:D5:2D:04:CA	ON-LINE
<input type="checkbox"/>	LakeRayHubbard-09-033-1945-075A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:12	ON-LINE
<input type="checkbox"/>	LakeRayHubbard-09-033-1945-075B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:15	ON-LINE
<input type="checkbox"/>	MLK-12-006-1945-066A-F	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:58	ON-LINE
<input type="checkbox"/>	MLK-12-006-1945-066B-F	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:66	ON-LINE
<input type="checkbox"/>	SouthGarland-11-023-1946-097A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:72	ON-LINE
<input type="checkbox"/>	SouthGarland-11-023-1946-097B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:73	ON-LINE
<input type="checkbox"/>	JackHatchell-08-019-1946-089B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:78	ON-LINE
<input type="checkbox"/>	JackHatchell-08-019-1946-089A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:74	ON-LINE
<input type="checkbox"/>	JackHatchell-08-020-1946-084A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:84	ON-LINE
<input type="checkbox"/>	JackHatchell-08-020-1946-084B	G3	Deployed	192.168.32.4	70:B3:D5:2D:05:82	ON-LINE
<input type="checkbox"/>	SouthGarland-11-024-1946-082A	G3	Deployed	192.168.32.3	70:B3:D5:2D:05:79	ON-LINE



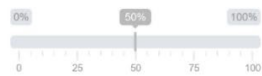


LCD Signs Control

Home / Equipment

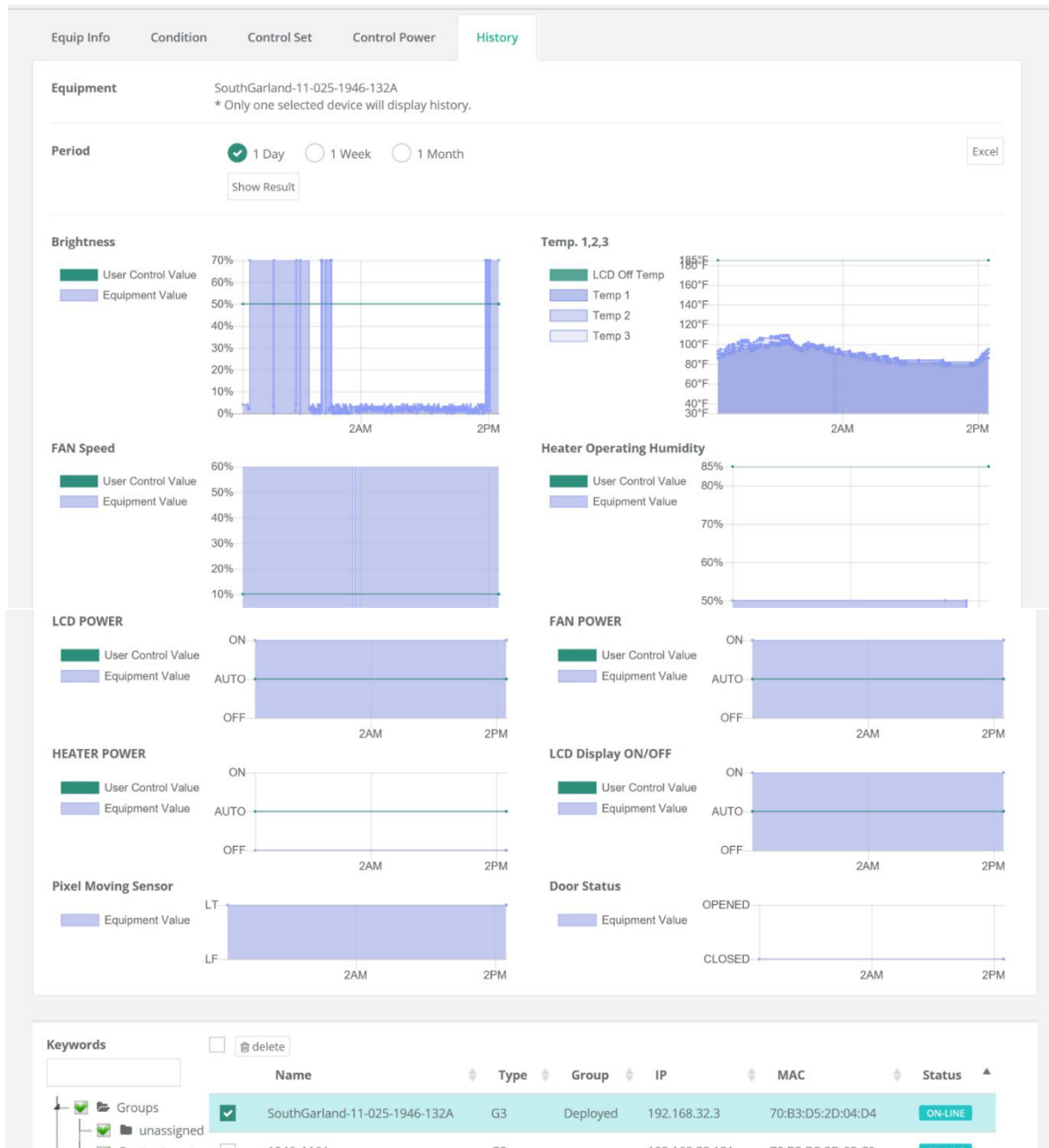
Equip Info Condition **Control Set** Control Power History

Modified setting (Follow the control settings for the default setting or you can modify for each equipment.)

Equipment Value User Control Value

Operation Mode	Auto	Auto	LED R	255	
LCD Display ON/OFF	ON	ON	LED G	255	
Brightness	70%		LED B	0	
Volume	50%				
Input Source	HDMI	HDMI			

Archive History



NANOV DISPLAY INC.

141 Flushing Ave Unit 705
Brooklyn, NY 11205

www.nanov.info

Tel: 877 408-9944 Fax: 866 431-7242

Copyright © 2020 Nanov Display Inc. All rights reserved.