

# 75" Outdoor Interactive Single-Side Digital Signage



#### Model: NISSK-750PCT-305-EGL, Portrait, Outdoor

- ✓ Sunlight readable 75" 2500cd screen and led backlit sign
- ✓ Commercial, maintenance-ready design
- ✓ Embedded Intel i7 processor, 4G LTE networking
- ✓ HVAC Heater, ventilation, and air circulation
- ✓ UL872, Sign controller IoT sensors, Remote computer power reset
- ✓ UL48 Outdoor signs compliant Dielectric voltage withstand test, Bond impedance test, Leakage current test and Glass impact test
- ✓ Hardware health monitoring system Temperature, Brightness





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#### Screen

Parameter	Specification
Video Orientation	Portrait
Screen Dimensions (W x H)	928mm x 1650mm; (36.5in. x 65.0in.)
Enclosure Dimensions (W x H x D)	1668mm x 2733mm x 1768mm; (65.7in. x 107.6in. x 69.6in.)
Resolution	1920 x 1080 pixels
Color	16.7 million colors (8-bit)
Dimming	50-100% automatic dimming
Calibrated Intensity	2500 Cd/m <sup>2</sup>
Color Temperature Modes	Warm / Medium / Cool
Refresh Rate	120 Hz
Contrast Ratio	5,000:1 (Typical);
Viewing Angle	178 degrees (side/side) 178 degrees (up/down)
Touch Interactivity [Optional]	Projected Capacitive (PCAP), Multi-touch Works with bare fingers and gloved fingers High positional accuracy (2.5mm typical) 92% - 100% light transmission through PCAP < 10 ms response time [PCAP Manufacturer: Zytronic]



## **Power, Computer & Electronics**

Parameter	Specification	
Power Consumption	1400 W (Average); 1600 W (Maximum)	
	CPU	Intel Core i7 1.8 GHz Dual Core
	RAM	16 GB
Embedded computer	Storage	128 GB
* Optional	Dimensions (W x D x H)	150mm x 50mm x 150mm; (5.9in. x 2.0in. x 5.9 in.)
	OS	Windows 10
Inputs / Outputs	HDMI DVI (720p/1080i/1080p) Composite Video Input PC Input via 15-pin LAN (RJ45, Cat 6) RS-232C Wi-Fi 802.11ac + Bluetooth 4.0 Module Optional: LTE Modem	
On Screen Display (OSD)	English (defau	ult), French, Spanish
Hardware Maintenance Software	Installed networking module to control hardware	
LED Backlit sign		acklit sign on top of screen design and film not included
Logo	Laser cut logo	
Side panel letter sign	Hardware sign	n plate design and film not included



## **System Level Design & Durability**

Parameter	Specification	
Rated Operating Conditions	Temperature: -35°C to +45°C 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 enclosure Powder coated surface treatment Available finishing materials: Stainless steel, Aluminum, Architectural glass	
Glass	Anti-vandal, tempered glass	
Certification	FCC, CSA, Components UL listings	
Warranty	36 Months	
Mean Time Between Failure	50,000 hours	
Electric Sign Health Monitoring System [Model: NRMCB-300]	Remote Health Monitoring capabilities:  - Monitor internet connection  - Environmental control via IoT sensors  • (2) Temperature sensors  • (1) Ambience sensor  • (1) Moisture sensor  • (1) Pixel moving sensor to detect screen is working or not  • (1) Door sensor for enhanced security and safety  - Sequential power booting program  • Remote power reset  • Remote computer reset  • Remote LCD reset  • Remote IoT reset	



#### **Maintenance Image**





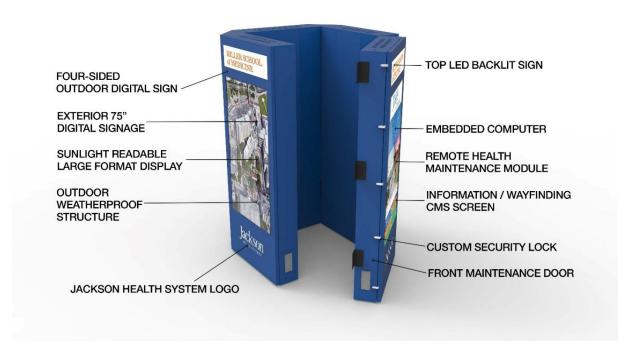






9ft Height

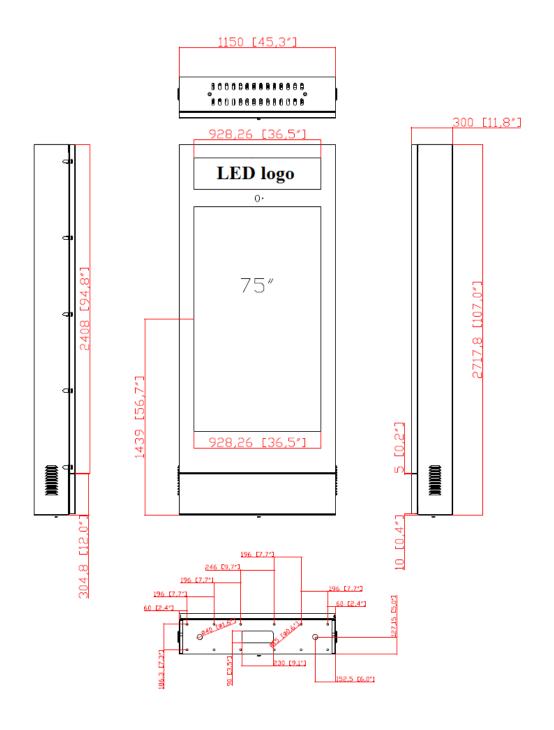
#### **Four-sided Application**





#### **Physical Dimensions**

Total System Weight: 800 kg (1760 lb.) per unit





#### **5 Port Switch Specification**

#### Model ipTIME H605

Parameter	Specification
Switch Name	5port. 10/100Mbps switching hub
Standard	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet ANSI/IEEE standard 802.3 N-Way auto-negotiation
Protocol	CSMA/CD
LAN Port	10/100Mbps 5Port
LAN wire Max length	UTP CAT-5/5e/6/7, 100m(MAX)
LAN wire type	Auto detect cable type (Direct / Cross)
Transmission method	Non-blocking switch Store and forward
MAC Address	4K MAC with Auto Learning
LED	PWR, LAN 1~5
Power	External DC Adapter
Size	84.4 x 54 x 25.7 (mm)
Operational Temperature	Operating 0°C ~ 60°C
Operational Humidity	10% to 80%





# **4G/LTE Modem/Router Specification**

Hardware Features	
Chipset	QCA9531/650Mhz
FLASH	SPI 16MB
RAM	DDR2 128MB
Protocol	IEEE802.11n/802.11g/802.11b/802.3/802.3u
Transmit Power	802.11b 18dBm+-2dBm 802.11g 15dBm+-2dBm 802.11n 15dBm+-2dBm
Reception Sensitivity	802.11b: -83dBm@10% PER 802.11g -74dBm@10% PER 802.11n -68dBm@10% PER
Wireless Speed	Max 300Mbps
Working Frequency	2.4GHz (2T2R)
Antenna Type	4 external 5dBi antenna
Interface	1 * PCI-E slot 1 * SIM card slot 1 * 10/100M WAN port (Auto MDI/MDIX) 1 * 10/100M LAN port (Auto MDI/MDIX)
LED	Power, PCIE, 2.4G, WAN, LAN1, LAN2, LAN3, LAN4
Button	Reset
Power Supply	DC 12V/1A
Max power consumption	< 12W
Dimensions	141*85*26MM



Software Features	
Default Setting	IP Address: 192.168.1.1
WAN Type	PPPoE/ Dynamic IP/ Static IP/ 3G/ 4G
Working Mode	AP; Router
System	Supports SDK, OpenWRT, eCos
DDNS	Support
WEB Style Change	Support
Static Router	Support
System Log	Support
DHCP Server	DHCP server Client List; Static address assignment;
Virtual Server	Port Forwarding DMZ
Security	Client List Filter MAX Address Filter URL Filter Remote WEB management
Others	MAC address clone Configuration file import and export Web upgrade
Others	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing



#### **Nanov Health Monitoring System**

#### **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
- Send and email or text alert indicating status of the signs Option or API

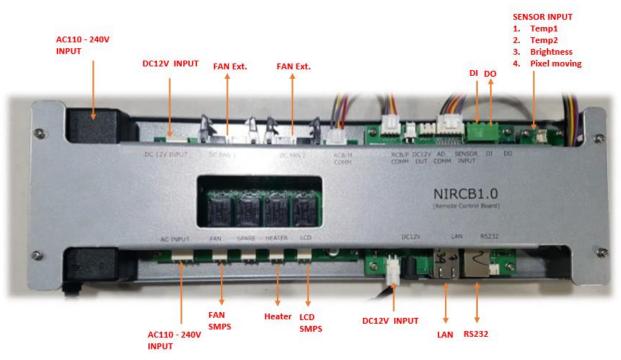
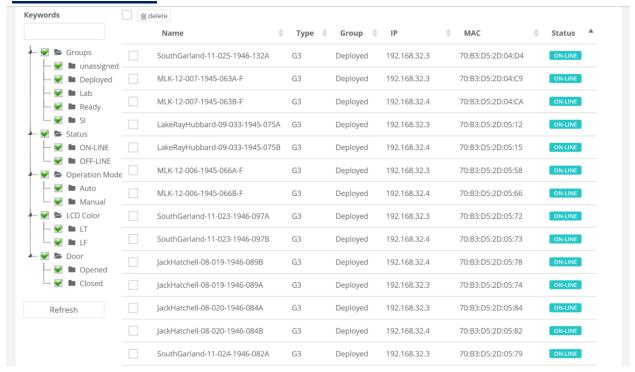


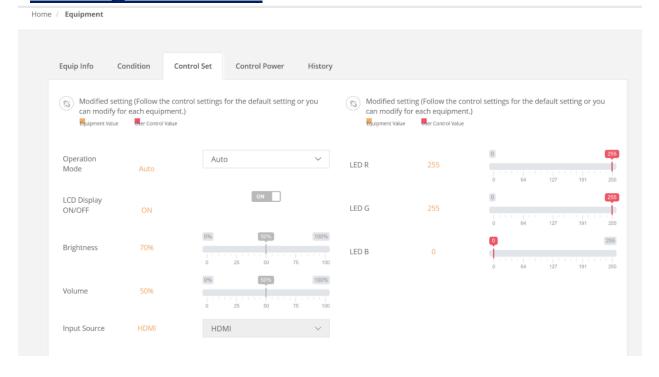
Fig. 1- NIRCB1.0 Nanov Sign Controller



#### **Dashboard**

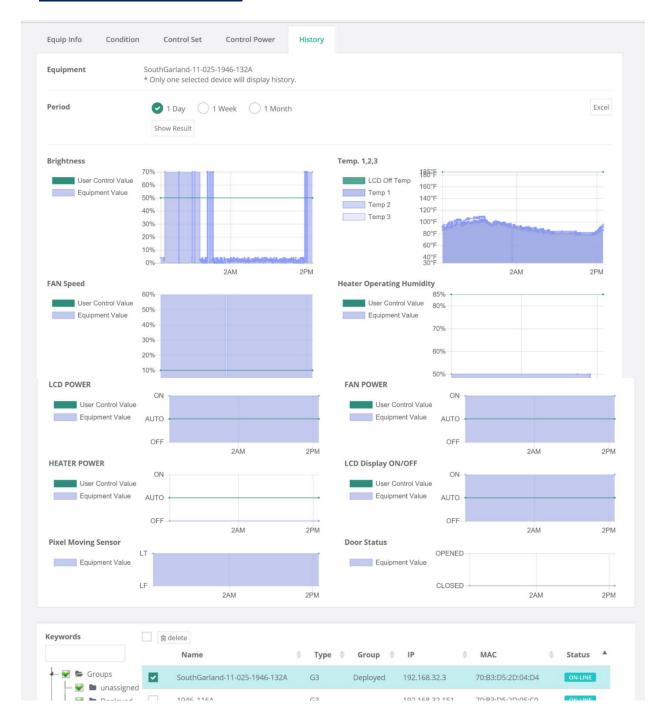


#### **LCD Signs Control**





# **Archive History**





#### **Safety Compliance**

LCD Panel: UL 60695

LCD Sign Controller: UL 879 Computer: UL E216813

For electric message signs compliant, the following certification and test report shall be provided.

- Dielectric voltage withstand test
- Glass impact test, IK 08
- Rain test
- Leakage current test
- Bond impedance test
- Input test
- Lock rotor test
- Abnormal operation test
- Maximum output voltage test
- Maximum output current and power test

VMS DISPLAY HEALTH MONITORING CONTROL VMS display assembly shall have the following remote hardware control monitoring and capabilities via the internet:

- IoT sensors activities report Temperature, Brightness
- Internet on/off report
- Alert alarm report

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