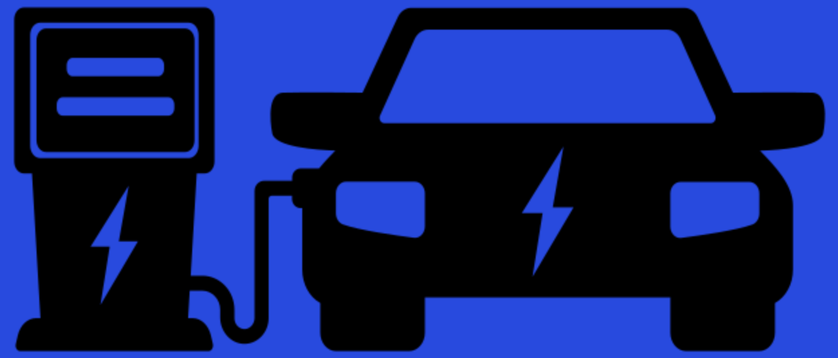
COMPANY

PRESENTATION

ODHitec Co., LTD | www.odhitec.com



Index.

ODHitec Co., Ltd. is a specialized LCD development and manufacturing company. We produce a wide range of products including Sunlight Readable LCDs that ensure clear visibility even in strong sunlight, industrial Panel PCs, Touch monitors, Transparent LCDs, Mirror LCDs, Magic LCDs, and 3D Video Systems (DVS). ODHitec is recognized as a strong player in the industry with a focus on innovation and advanced technology.

Company Profile

Company Name	ODHitec Co., Ltd
Founding Date	2008.09
Headquarter	ChungNam HongSung-gun HongBuk-eup Cheomdan-Sandan 4gil 59
CEO	Robin Yim
Homepage	www.odhitec.com
Main Products	Panel PC, Outdoor LCD, Transparent LCD

Company History

2008 Foundation of ODHitech Co.,Ltd

2009 Developed own technology, Sunlight Readable LCD

2012 Develoed Transparent LCD technology

2015 Mass Production of Transparent LCD

Transparent OLED Developed

2016 Start to develop Panel pc

2020 Mass Production of Panel pc for EV charger

2022 Construction of ODHitec office HQ moved to Chungnam HongSung

2023 Acquired 2 patents for electric vehicle chargers

Technology

1

Industrial Panel PC

1. Motherboard design technology
2. Analog to Digital technology
3. DC/DC control board development
4. SCS board design and software
5. Mechanical design

2

Touch Monitor

1. Touch panel design technology
2. AD board development
3. LCD tuning technology (high brightness)
4. Mechanical design

3

Transparnet LCD

1. Polarizing film peeling and attachment technology
2. Transparent LCD tuning technology
3. Showcase manufacturing technology

Differentiating Core Technologies

Key Technology

1. Anti-Blackening Technology for LCDs Under Intense Sunlight
2. Auto Reset Function for Touch Malfunctions

3. Energy Star Certification Compliance Features
4. Automatic Brightness Adjustment for LCD Displays Over Time
5. Fire Prevention Flame Detection Function for Electric Vehicle Chargers (In Development)
6. DC to DC Converter for European Export, DC 9V~36V (In Development)
7. Silk Screen Printing Delamination Prevention Technology for Touch Panels

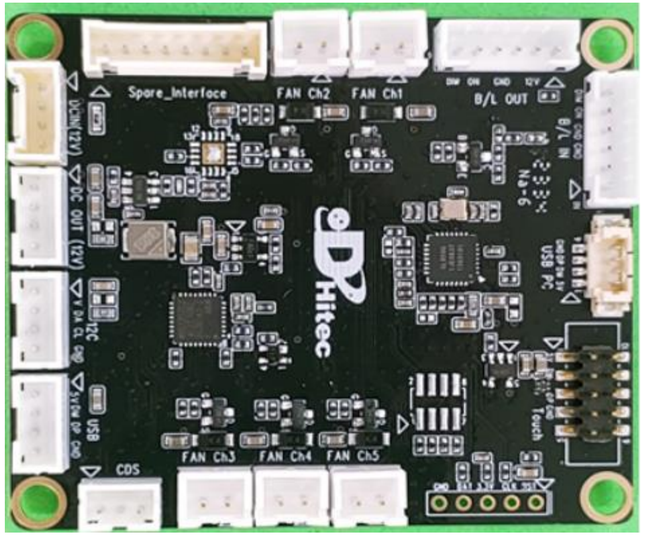
Patents

1. Air Circulation Touchscreen Device (Registered, Korea Patent No. 10-2486557)
2. Touchscreen Device and Control Method Thereof (Registered, Korea Patent No. 10-2499789)
3. Automatic On/Off System for Display Section of Charging Device Based on Vehicle Entry/Exit Detection (Registered, Korea Patent No. 10-2271038)
4. Kiosk for Electric Vehicle Charging (Registered, Korea Patent No. 10-2472228)
5. **U.S. Patent Application: Client Ref. No.: PCT230104-US**

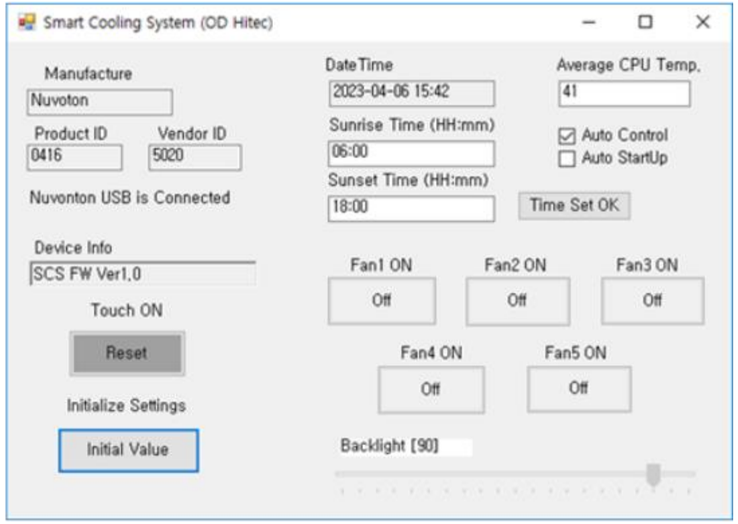
Differentiating Core Technologies

The Panel PC's SCS (System Control Software) adjusts screen brightness and fan control based on day and night settings

- During the day, this function increases screen brightness to enhance visibility and operates the fan to reduce the LCD's temperature.
- At night, the function dims the screen to reduce light pollution and stops the fan, which extends the fan's lifespan and prevents blackening (LCD discoloration).



SCS Board



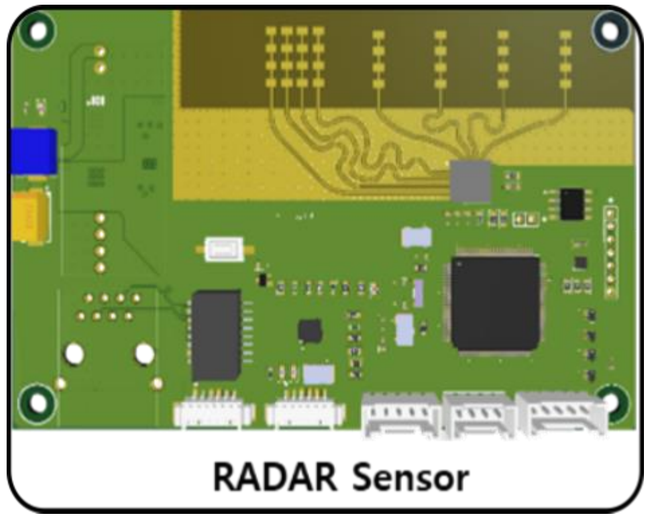
SCS UI Program

The status of the related patents:
- Air Circulation Touchscreen Device (Registered, Korea Patent No. 10-2486557)
- Touchscreen Device and Control Method Thereof (Registered, Korea Patent No. 10-2499789)

Differentiating Core Technologies

Energy Star Compatible Technology

- Radar Sensor Function: Adjusts the brightness of the Panel PC based on the proximity of objects.
- Light Sensor Function: Adjusts the brightness of the HMI (Human-Machine Interface) based on the surrounding environmental light conditions.



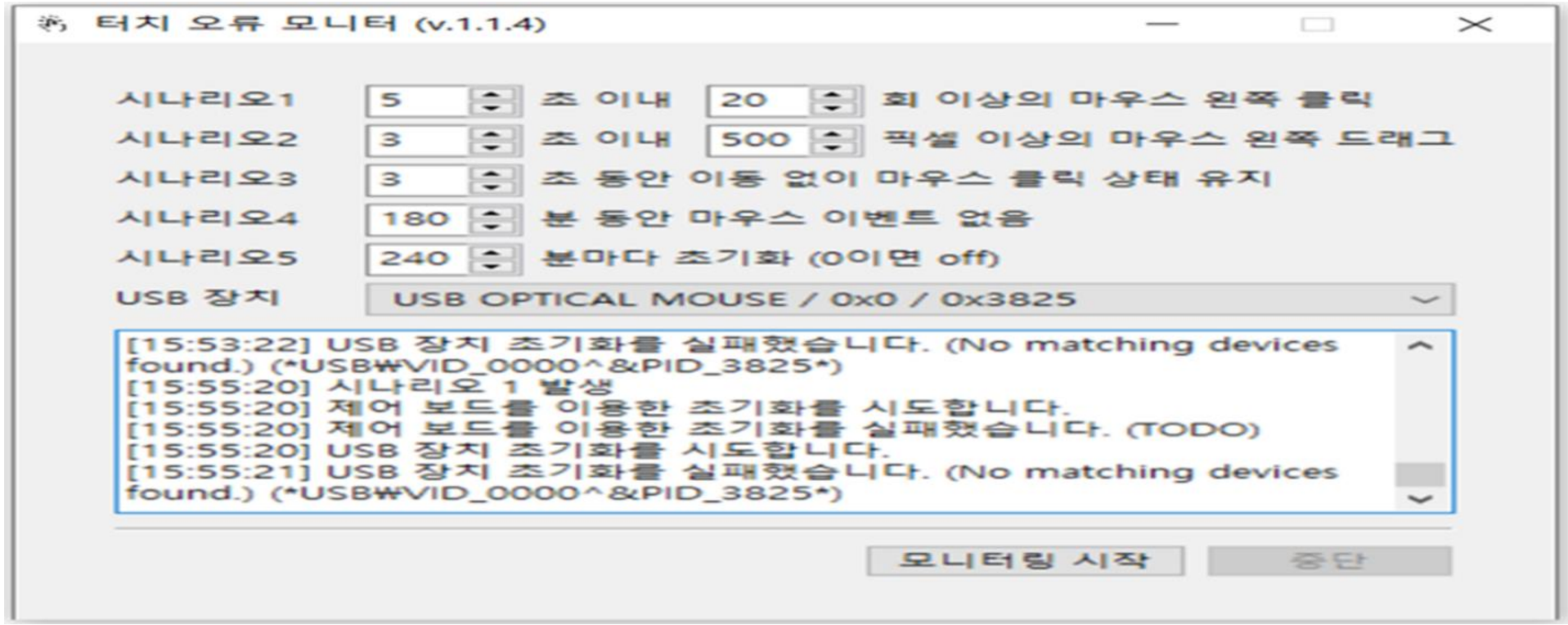
- This radar sensor is installed in charging stations equipped with displays. It operates the display only when a vehicle is using the charging device. The system comprises a radar unit for detecting vehicles approaching the charging device and a control unit.
- The display remains on only from the moment the vehicle enters for charging until the charging is complete and the vehicle leaves. When no vehicle is present, the display remains off, which eliminates standby power consumption and extends the lifespan of the display unit. Additionally, since vehicle detection is performed using radar, the detection efficiency is high and there are no false activation.

The status of the related patents:
- Automatic On/Off System for Display Units Based on Vehicle Entry/Exit Detection (Patent No. 10-2271038)
- Electric Vehicle Charging Kiosk (Patent No. 10-2472228)

Differentiating Core Technologies

Touch Reset

- Due to external temperature increases and other factors, the surface temperature of the Touch Sensor Glass may rise
- To prevent inconvenience caused by touch malfunction, there is a function that automatically performs a Touch Reset when touch does not operate



Touch Reset UI Program

Products

Panel PC for EV Charger (HMI)

Panel Size		8" Panel PC	12.1" Panel PC		15" Panel PC	15.6" Panel PC	24" Panel PC	32" Panel PC
Model No.		ODP080CT10-B3	ODP121CT15-B3-S	ODP121CT15-B3-M	ODP150CT15-B3	ODP156CT15-B3	ODP240CT15-A9	ODP430CT10-B3
LCD	LCD Size	8", 16:9	12.1", 4:3	12.1", 4:3	15," 4:3	15.6", 16:9	24", 16:9	32", 16:9
	Resolution	1024 X 600	800 X 600	1024 X 768	1024 X 768	1920 X 1080	1920 X 1080	1920 X 1080
	Brightness (Typ.)	1000 nit	1500 nit	1500 nit	1500 nit	1500 nit	1500 nit	1500 nit
	Life time	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Touch	Type	P-CAP Touch	P-CAP Touch	P-CAP Touch	P-CAP Touch	P-CAP Touch	P-CAP Touch	P-CAP Touch
	Touch Point	1 Point	1 Point	1 Point	1 Point	1 Point	1 Point	1 Point
	Tempered glass(3T)	IK08	IK08	IK08	IK08	IK08	IK08	IK08
Mather Board	CPU	Intel Atom	Intel Atom	Intel Atom	Intel Atom	Intel Atom	Intel Atom	Intel Atom
		Quad-Core / i5,i7	Quad-Core / i5,i7	Quad-Core / i5,i7	Quad-Core / i5,i7	Quad-Core / i5,i7	Quad-Core / i5,i7	Quad-Core / i5,i7
	RAM	RAM 4G / 8G	RAM 4G / 8G	RAM 4G / 8G	RAM 4G / 8G	RAM 4G / 8G	RAM 4G / 8G	RAM 4G / 8G
	SSD	m-SATA 64G,128G	m-SATA 64G,128G	m-SATA 64G,128G	m-SATA 64G,128G	m-SATA 64G,128G	m-SATA 64G,128G	m-SATA 64G,128G
	Ethernet	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45
	COM Port	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1	RS232 x 3 RS485 x 1
	USB	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3	USB 3.0 x 1 USB 2.0 x 3
	Audio	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable	¢ 3 Jack or L,R Cable
	OS	Win10 IOT (64BIT)	Win10 IOT (64BIT)	Win10 IOT (64BIT)	Win10 IOT (64BIT)	Win10 IOT (64BIT)	Win10 IOT (64BIT)	Win10 IOT (64BIT)
Mechanical & Environment	IP protection	IP65 / Front	IP65 / Front	IP65 / Front	IP65 / Front	IP65 / Front	IP65 / Front	IP65 / Front
	Power input	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V, 8A	SMPS
	Power Consumption	20W	30W	30W	35W	40W	55W	100W
	Operating	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C
	Storage	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C	-30'C~80'C
	Dimension (WxHxD)	234x157x65	301x239x55.5	301x239x55.5	390x315x74.6	426x277x66.2	600x370x84	998.x592x86.8

Customization options are available for all components, including the LCD, PC, and housing.

Products

Panel PC for EV Charger (HMI)

Hyundai 350KW IONIC5 (42" PANEL PC Applied)

Hyundai 350KW e-pit for IONIC5, EV6 (
11.6" PANEL PC Applied)

Products

Panel PC for EV Charger (HMI)

EVSIS Fast charger in Jeju Island
(12.1" PANEL PC Applied)

Ministry of Environment Fast charger in Jeju Island
(24" PANEL PC Applied)

CHAEVI Fast charger in Jeju Island
(15" PANEL PC Applied)

Products

Panel PC for EV Charger (HMI)

Moderntec Fast charger at busstop
(12.1" PANEL PC Applied)

SK Signet Fast charger in Jeju Island
(15" PANEL PC Applied)

SK Signet Fast charger in Jeju Island
(12.1" PANEL PC Applied)

Products

Panel PC for EV Charger (HMI)

SK Signet Fast charger for E.A in USA
(15" PANEL PC Applied)

Products

Domestic Partners

CHAEVI

HYUNDAI

EVSIS

SK 시그넷

LG전자

HYUNDAI KEFICO

moderntec (주)모던텍

COSTEL

AD (주)에이디티

EN TECHNOLOGIES
Creative Energy to the World

iw Infinity Works

Thank You

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