



RAYSTAR

曜凌光電股份有限公司
RAYSTAR OPTRONICS, INC

COMPANY INTRODUCTION

2026-04



Company Overview



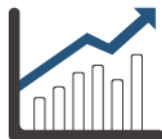
Established
June 1998



Founder
Dr. Venson Liao



Employees
1200



Taiwan Stock
6916

Vision

The world's leading brand of industrial display solutions.

Value

Maintain ethical integrity and legal compliance.

Mission

Enable sustainable growth for all stakeholders.

Culture

Trust, Innovation, Technology & Sustainability.

Global Market

5

Continents

103

Nations

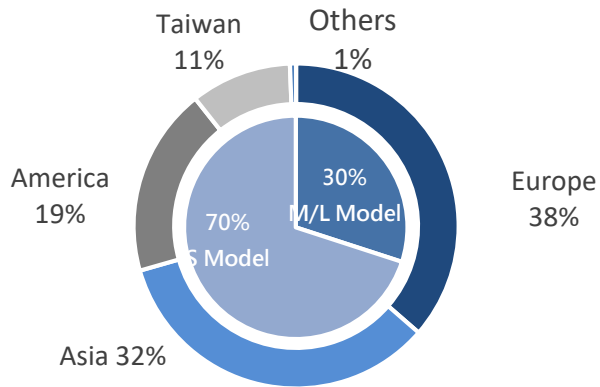
30k

Customers

1^{stop}

Service

2025 Regional Revenue



Flexible business model

- 70% of orders: ≤ 500 pcs
- M&L order range: 1K–1KK+ units
- Highly flexible product customization

Sales Industry Category



Industrial Control

42%



Netcom

13%



Entertainment & Audio

13%



Home Application

12%



Transportation

8%



Healthcare

7%



Energy

5%

Awards

| *CTSP Innovative Product Award 2023*

2024



2023



2022



2021

台湾精品2021
TAIWAN EXCELLENCE

2020



2019

台湾精品2019
TAIWAN EXCELLENCE

2018

台湾精品2018
TAIWAN EXCELLENCE

2017

台湾精品2017
TAIWAN EXCELLENCE

2016

台湾精品2016
TAIWAN EXCELLENCE

2015

台湾精品2014
TAIWAN EXCELLENCE

2013

2012

台湾精品2011
TAIWAN EXCELLENCE

2011

2007

| *Taiwan Excellence Award 2021*
CTSP Innovative Product Award 2021

| *Taiwan Excellence Award 2019*
CTSP Innovative Product Award 2019

| *Taiwan Excellence Award 2017*
National Industrial Innovation Award 2017

| *CTSP Innovative Product Award 2015*
Taichung Industrial Innovation Award 2015

| *Taiwan Excellence Award 2013*
CTSP Innovative Product Award 2013
36th Model of Taiwan Entrepreneurs
36th Model of Taiwan Assistant Award

| *CTSP Innovative Product Award 2011*
Taiwan Excellence Award 2011
AutoTronics Innovation Award 2011

| *Taiwan Golden Root Award*
Smart Display Application Award
CTSP Innovative Product Award 2024
Workplace Work Equal Rights Excellent Award 2024

| *Taiwan Excellence Award 2022*
CTSP Innovative Product Award 2022
National Manager Excellence Award 2022
Workplace Work Equal Rights
Excellent Institution Award 2022.

| *Workplace Work Equal Rights Excellent*
Institution Award 2020

| *Taiwan Excellence Award 2018*

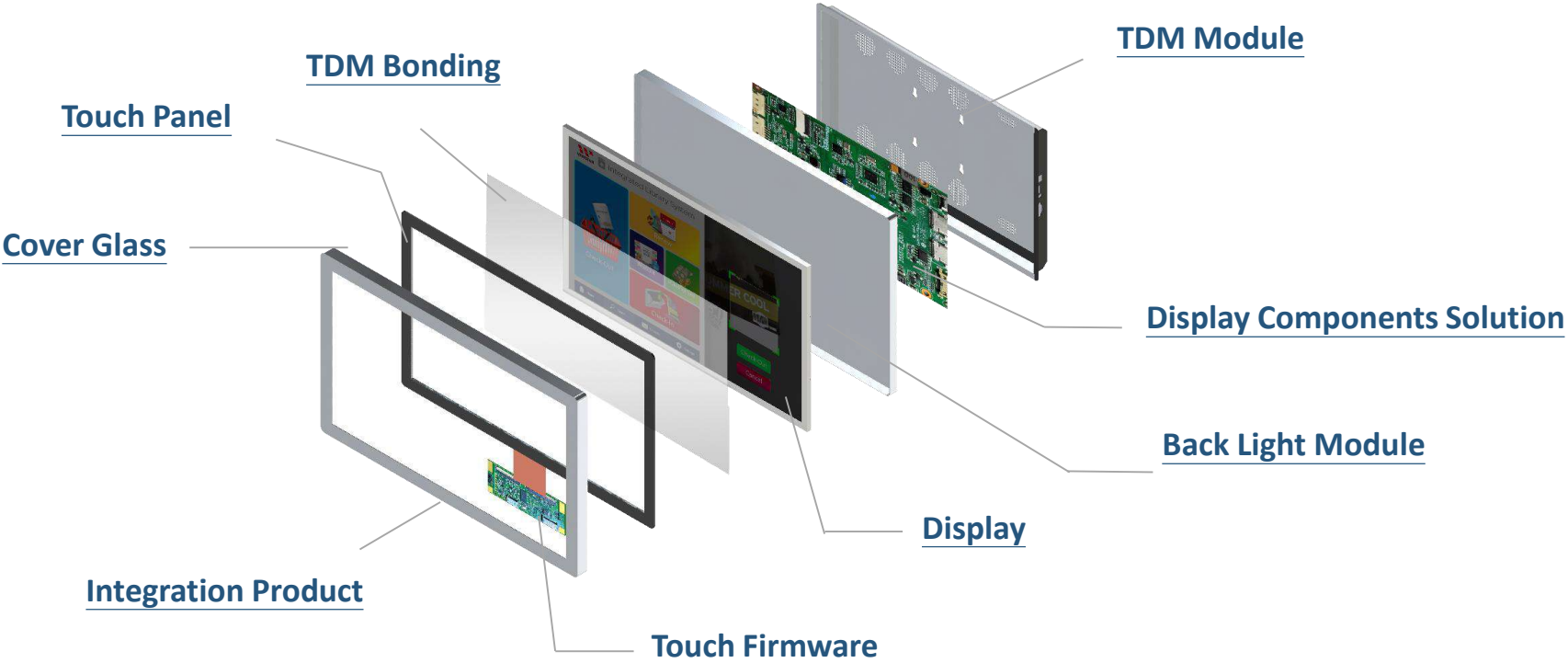
| *CTSP Innovative Product Award 2016*
Taichung Industrial Innovation Award 2016

| *Taiwan Excellence Award 2014*
Outstanding Photonics Product Award 2014

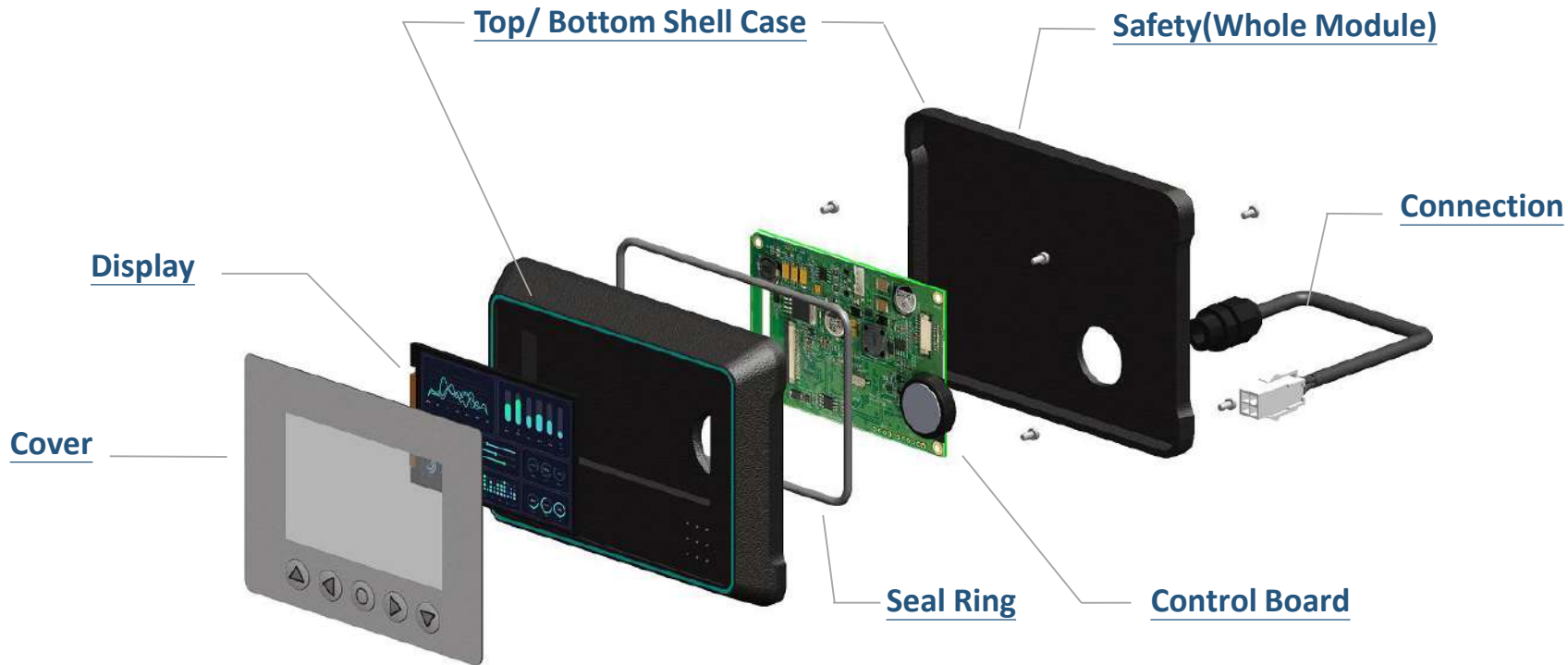
| *CTSP Innovative Product Award 2012*
Outstanding Photonics Product Award 2012

| *The 16th National Award of Outstanding SMEs*

Display Total Solution



Custom Design Service



Product Portfolios

STN



- Under 6"
- Up to 8100 items
- Without or Low MOQ

OLED



- 0.49"~5.5"
- Up to 1800 items
- Without or Low MOQ

TFT



- 0.96"~32"
- Up to 2300 items
- Without or Low MOQ

Smart Display



- Integrate LCM, software, firmware, hardware, and enclosures solutions
- STM32 MCU
- One-stop service
- Time-to-market

HMI Display



- Multi-SW tools supported: TouchGFX/ LVGL/ QT..
- Technical support for initialization
- STM32/ITE9866..
- One-stop service
- Time-to-market

12,500+ PRODUCTS **28 YEARS+** EXPERIENCE

Product Portfolios

Embedded



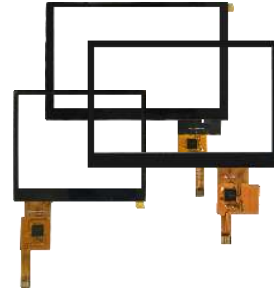
- . 4" ~21.5"
- . Linux
- . Android
- . Windows
- . Arduino IDE

EPD/MIP



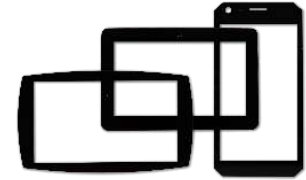
- . 0.97" ~13.3"
- . E-paper & Memory-in-pixels (MIP)
- . SPI interface
- . Eco-Friendly

Touch Sensor



- . 0.96"~32"
- . Sensor design
- . Firmware adjustment

Cover Lens

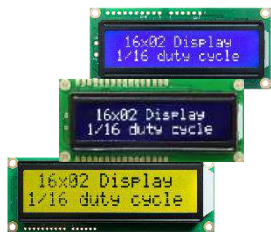


- . 0.96"~32"
- . Material design & surface treatment
- . Printing / film lamination
- . Meet IK level

12,500+ PRODUCTS **28 YEARS+** EXPERIENCE

STN Display Series

Character LCM



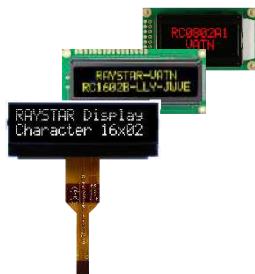
- 8x2 ~40x4
- Interface:
Parallel/SPI/I2C/
UART/USB

Graphic LCM



- 122x32 ~ 320x240
- Interface:
Parallel/SPI/I2C

VATN LCM



- 8x2~20x4
- Interface:
Parallel /SPI/I2C

ICON LCM



- Size: customized
- ICON touch option:
Touch effect similar
to In-Cell

Silk Printing LCM



- Size: customized
- Supports 1~4 colors



Advantages:

Up to 8100 items
90% standard items
Low MOQ.
Hot sale items: No MOQ.



Industrial Grade:

10 years supply guarantee



Lead-time:

Sample: 1-4 weeks
MP: 6-8 weeks



Temperature:

OP: -20 °C ~ +70°C
ST: -30°C ~ +80°C

TFT Display Series

Bar Type TFT



- 2.99" ~ 12.3"
- Interface:
RGB/MCU/MIPI DSI/
LVDS

High Brightness



- 3.2" ~ 13.3"
- Brightness:
600~1700 nits
- RGB/MCU/MIPI DSI/
LVDS

Wide Temperature



- 7" ~ 10.4"
- Temperature:
-30°C +80°C or +85°C
- RGB/LVDS

IPS TFT



- 0.96" ~ 15.6"
- RGB/MCU/SPI/QSPI/
LVDS/MIPI DSI/eDP

HDMI TFT



- 3.9" ~ 10.1"
- HDMI Connector
(DVI Signal)



Advantages:

Up to 2300 items
90% standard items
Low MOQ.
Hot sale items: No
MOQ.



Industrial Grade:

3~5 years supply
guarantee for
90% items



Lead-time:

Sample: 1-4 weeks
MP: 8-12 weeks



Temperature:

OP:
-20°C ~ +70°C or
-30°C ~ +80°C or +85°C



Touch Panel:

Resistive or
Capacitive Options

TFT Display Series

Standard TFT



- 1.77" ~ 10.4"
- RGB/MCU/SPI/LVDS

TFT+ Control Board



- 3.5" ~ 10.1"
- MCU
- With Control Board

LVDS TFT



- 5" ~ 15.6"
- LVDS
- High-speed data, low voltage, less noise

MIPI DSI TFT



- 3.4" (Circular) ~ 10.1"
- MIPI DSI supports diverse data formats efficiently

Touch Panel



- 0.96"~32"
- Standard + customized
- Resistive or Capacitive



Advantages:

Up to 2300 items
90% standard items
Low MOQ.
Hot sale items: No MOQ.



Industrial Grade:

3~5 years supply guarantee for 90% items



Lead-time:

Sample: 1-4 weeks
MP: 8-12 weeks



Temperature:

OP:
-20°C ~ +70°C or
-30°C ~ +80°C or +85°C



Touch Panel:

Resistive or Capacitive Options

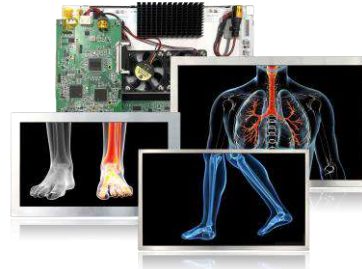
TFT Display Series

Circular TFT



- 1.28"/1.6"/2.1" /2.76"/3.4"/4"
- SPI/MIPI/SPI+RGB
- CTP option
- Custom Knob

Local Dimming TFT



- 7", 10.1, 15.6"
- Mini LED+ FALD (Full Array Local Dimming Backlight)
- High Contrast, High Brightness
- Low Power Consumption, Sunlight Readability
- Zone-Based Independent Control



Advantages:
Standard items
Low MOQ.



Industrial Grade:
3~5 years supply
guarantee for
90% items.



Lead-time:
Sample: 4-6 weeks
MP: 8-12 weeks



Temperature:
OP:
-20°C ~ +70°C or

Cover Lens Solution (Glass/PMMA)

Customize Solution:

- AG / AR / AF Treatment
- Antimicrobial Coating
- UV Protection Film
- Heater Layer
- Anti-Shatter Film
- Hover Touch(with CTP)

Protection Ratings:

- IK (Impact Protection) up to IK10
- IP (Ingress Protection) up to IP69

Anti Glare(AG)



Anti Reflective(AR)



Anti Fingerprint(AF)



Anti-Shatter



IK Rating



Privacy Filter



UV Protection



Heater Layer



Antibacterial



Hover Touch



OLED Display Series



Character OLED



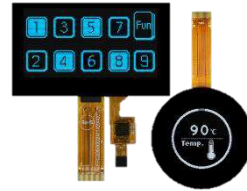
- 8x2 ~ 20x4
- COB/COG/COG+PCB
- Parallel/SPI/I2C

Graphic OLED



- 50x16 ~ 256x64
- 0.46" ~ 5.5"
- COB/COG/COG+PCB
- Parallel/SPI/I2C

Touch OLED



- 0.91" ~ 5.5"
- COG/COF/COG+PCB

OLED Knob



- Standard \varnothing 0.96"+
 \varnothing 1.18" Encoder
- SPI/I2C
- Customize options

Transparent OLED



- Standard 1.51"
- Transmittance: 50%
- Customize options
Graphic: 0.5"~2.5"
ICON: 0.5"~5.5"



Advantages:

Up to 1800 items
90% standard items
Low MOQ.
Hot sale items: No MOQ.



Industrial Grade:

10 years supply guarantee
COB Character OLED
World Patented



Lead-time:

Sample: 1-4 weeks
MP: 8-12 weeks



Temperature:

OP: -40°C ~ +80°C or 85°C (standard)
OP: -40°C ~ +85°C (Automotive)
ST: -40°C ~ +105°C (Automotive)
IATF16949 Certificated

Power Saving Display Series

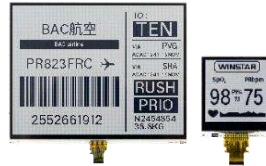


EPD



- 0.97" ~13.3"
- E-paper
- Without Backlight
- Deep sleep mode
- SPI interface
- Front light option
- Touch option

MIP



- 1.28", 1.08", 1.28", 4.4"
- Reflective LCD
- Memory-in-pixels
- SPI interface
- Without Backlight
- Front light option

Transflective TFT



- 2", 2.4", 5"
- Transflective LCD
- Dual-mode: transmissive and reflective technology
- MCU/SPI/RGB interface
- Wide Temperature: -20°C~70°C or -30°C~85°C



Advantages:

Standard items
Low MOQ.



Feature:

Low power consumption
Sunlight Readable
Without Backlight



Lead-time:

Sample: 1-4 weeks
MP: 8-12 weeks



Industrial Grade:

3~5 year supply guarantee
for 90% items

Smart Display

UART Series



- Support TFT 3.5" ~ 10.1"
- 5V / 12V system voltage
- Customize protocol
- GPIO, ADC/DAC support

RS485 Series



- Support TFT 3.5" ~ 10.1"
- 5V / 12V system voltage
- Modbus protocol
- GPIO, ADC/DAC support

CAN bus Series



- Support TFT 3.5" ~ 10.1"
- 5V / 12V system voltage
- CANOpen protocol or Custom CAN ID
- GPIO, ADC/DAC support



Advantages:

Standard items Low MOQ.
Multiple options for Display, System platform and housing



Industrial Grade:

3~5 year supply guarantee for 90% items



GUI design tool:

QT, Embedded Wizard LVGL. Crank, GUI builder



Temperature:

OP:
-20°C ~ +70°C or
-30°C ~ +80°C or +85°C

HMI Display

Development board

ST | TouchGFX



- Support TFT 2.4", 4.3", 5", 7"
- Multiple interfaces
- ST development tools
- DC 8~48V

Entry level UART TFT



- Support TFT 3.5" ~ 7"
- 5V / 12V system voltage
- UART display for entry level
- Clever System User API



Advantages:

Standard items Low MOQ.
Multiple options for Display, System platform and housing



Industrial Grade:

3~5 year supply guarantee for 90% items



GUI design tool:

QT, Embedded Wizard LVGL. Crank, GUI builder



Temperature:

OP:
-20°C ~ +70°C or
-30°C ~ +80°C or +85°C

ST | TouchGFX

How Does Raystar System Product work?

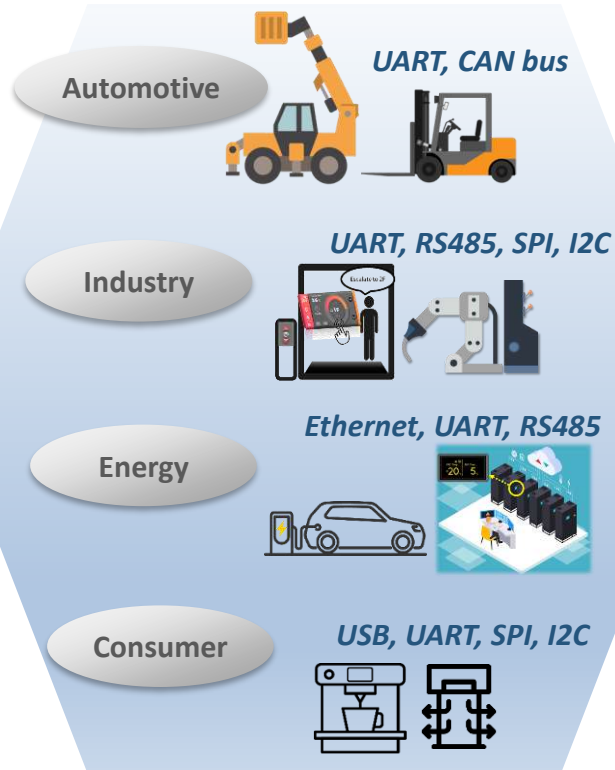
Not only Slave

- Integrates Display and MCU board with UI bundled
- GUI builder for UI design



Smart Display

Interfaces



But also Stand Alone Device

- Stand alone with multiple I/Fs
- MCU or Processor for more powerful functions
- Multiple SW apps for UI design



Smart Display

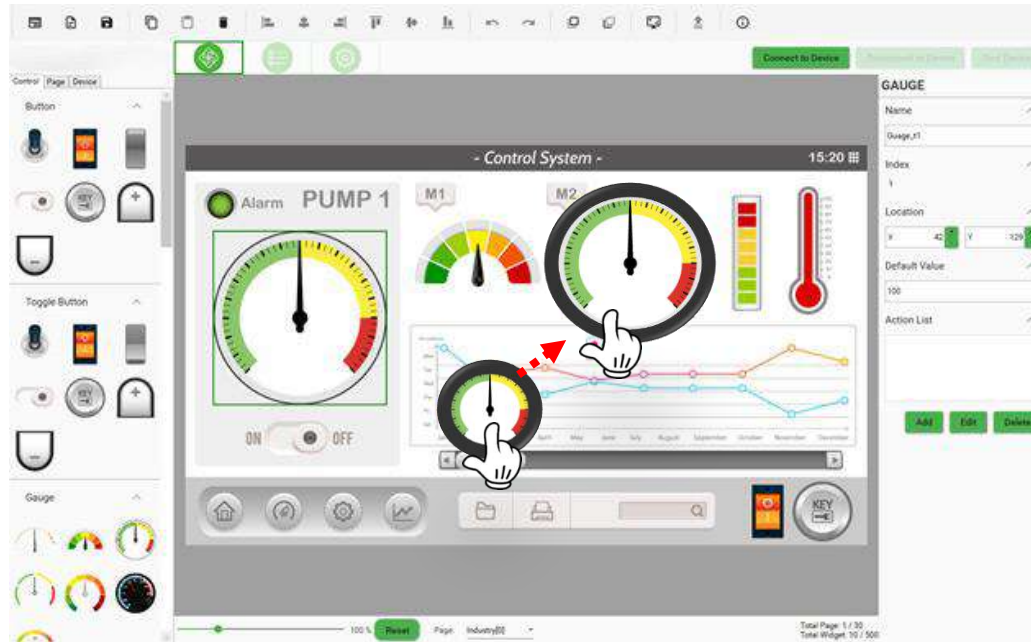


HMI Display

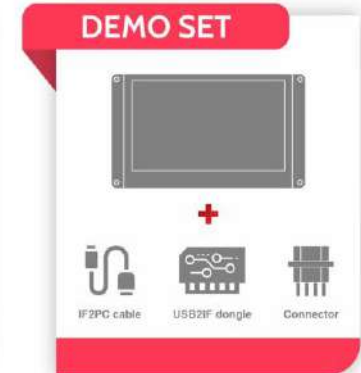
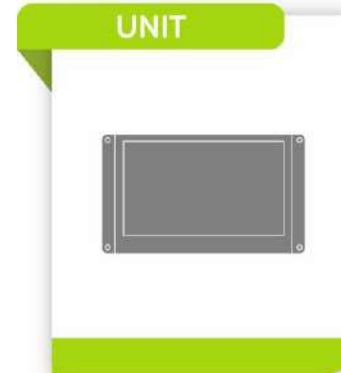


Embedded OS

Smart Display with GUI builder



- Free Software – No Licensing fee
- No Coding Required
- Anyone can be an UI designer.
- Training courses can be provided upon request.
- Recommend ordering the DEMO SET and GUI Builder together.



Limitation

- Support Windows OS only
- PNG format is required for uploading

Quality Assurance



- ISO 9001 : 2015
- ISO 14001 : 2015
- IATF16949 : 2016
- ISO 14064-1 : 2018
Greenhouse Gas Verification
- ISO 14067-1 : 2018
Product Carbon Footprint
Verification
- ISO/IEC 27001 : 2022
Information Security
- ISO 13485 : 2026 (In process)
- RoHS & REACH compliance
- Green Partner Certified
by Sony

Reliability

Burn-in Testing Machine



Environmental Test Chamber



PMT Testing Machine



Automatic BIN machine



Tensile Testing Machine



SMT AOI Automation



ESD Testing Equipment



Vibration Testing Machine



Key Life Testing Machine



Environmental Test

Ingress Protection (IP) Test

Key Life Testing Machine

Vibration Test

ESD Test

Luminance Test

Tensile Test

IK Impact Test

Bonding Test

PMT Test

EMC Test

Burn-in Test

ESG & Sustainability

Raystar is committed to sustainable development and endeavors to align with the global ESG standards.

Environmental

- Environmental Protection
- Energy-saving & CO2 reduction
- Energy efficiency
- Waste management

Social

- Social Responsibility
- Friendly workplace
- Employee rights
- Job opportunities

Governance

- Sustainable management
- Attitude of honesty and trust
- Compensation system
- Strengthen the board of directors
- Compensation committee
- Audit committee



Investors

- Valuing investors
- Fostering growth-oriented sustainability

Enterprise

- Sustainable growth development
- ESG and net-zero emissions

Employee

- Creating an inclusive workplace
- Building a happy and high-quality company

THANK YOU

Central Taiwan Science Park

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