

# FOOD & HYGIENIC INDUSTRIAL



TAILORED FOR OPERATIONS  
IN HYGIENIC ENVIRONMENTS

# About Winmate

Founded in 1996, Winmate Inc. is a pioneer in rugged computing technology. Winmate has provided business leaders worldwide with reliable, robust solutions for the most challenging industrial conditions for over two decades. From R&D to manufacturing to in-house testing, Winmate Inc. manages the entire product development process with ready-made products available for quick deployment. Today Winmate's innovative approach has helped countless enterprises at every level with equipment automation and seamless Industrial Internet of Things (IIoT) integration.

From the industrial display, panel PC, HMI, embedded systems to rugged mobile devices, Winmate caters to industries ranging from transportation and logistics to marine and military, railway, oil, and gas, and provides customization services to create a unique solution for specific customer requirements.

## The Winmate Difference

### Innovation and Ruggedness

With innovation and ruggedness, our products are designed to meet the requirements of vertical markets' environmental standards.

### Engineering Intelligence

We are committed to maintaining the highest standards in engineering excellence to ensure our products deliver reliability, durability, and optimized performance.

### Quality Commitment

Quality assurance and entire engineering processes are conducted in-house. It is why we invested significantly in our state-of-the-art testing facility with additional global support.

“  
**INNOVATIVE  
TECHNOLOGY FOR  
OPERATIONAL  
EXCELLENCE.**  
”

### Efficiency

Our team is committed to efficiency and maintaining the shortest possible development cycles. The whole development process is conducted in-house to achieve the market advantage in speed and quality from design to testing.

### Reliability

Reliability, service, and support are part of our foundation. Every product scrutinizes industrial standards testing to verify electrical, mechanical, thermal, and firmware design performance.

# Customized Solutions

Years of experience allow Winmate to offer customized solutions for different applications.

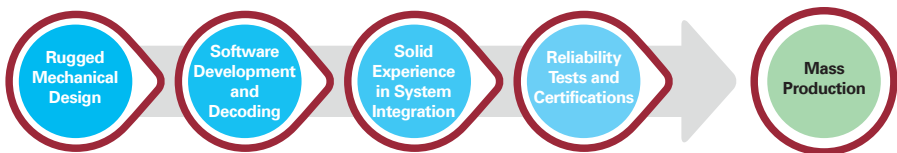
From product design to accessories, our engineering team designs and support the system integration process.

- CUSTOMIZED CONFIGURATION
- CUSTOM OS IMAGE
- CUSTOM BIOS
- ENCLOSURE DESIGN
- PERIPHERALS AND OPTIONS
- CUSTOM-DESIGNED ACCESSORIES

# Technical Know-How

We understand that access to cutting-edge solutions purposely built for their applications is imperative for enterprises operating in rugged or potentially hazardous environments. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, and in-house testing to research and implement the latest technologies available.

**The latest technologies we deploy for our rugged products:**



- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive, or SAW touch
- Waterproof enclosure
- Military EMI and mesh coating
- Wireless capabilities
- Data capture devices integration
- Defroster for ultra-low temperature environments
- Stainless steel SUS 316/ AISI 316
- Shock and vibration resistance
- Wide-range operation temperature

# Food & Hygienic Industry

## Overview

Whether it is the actual processing of the food or the packaging of the food, automation is everywhere in today's modern food plants. Plant floor automation helps keep costs down and food quality up. The stainless series was developed for food processing, packaging, and pharmaceutical industries. There is a need for water-resistant devices that can withstand daily washdowns to keep a clean food production facility.

## Industrial Challenges

- **Rigors of factory floor operations**

Devices for the operations at the factory floor should work in changing conditions such as dust, water splashes, and humidity.

- **High hygienic requirements of specific industries**

Some industries have strict hygienic requirements. Devices and factory floors must be cleaned with high-temperature water or chemicals.

- **High pressure and high-temperature washdowns**

Due to the high hygienic requirements of the food industry specifically, devices are subject to high pressure and high-temperature washdowns.

- **Corrosion resistance**

Devices installed in a food processing or chemical factory floor are often cleaned with aggressive chemicals in wet and dusty environments that cause corrosion. That is why SUS304 stainless steel material is the first choice for product design.

- **User-friendly intuitive interface**

The interface of HMI devices should be simple and user-friendly for the operator.

## Innovative Technology

- **Water and dust protection IP69K / IP67 / IP65**

The IP Code, International Protection Marking, IEC Standard 60529, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water. Ingress Protection (IP) rating notifies that the unit is water and dust-resistant. For example, the IP65 level indicates that the device's enclosure has no ingress of dust, complete protection against contact (dust-tight), and is protected from water jets. While IP69K withstands extensive wash downs with corrosion resistance against cleaning agents, especially against close-range high-pressure (up to 30 Bar), high temperature (up to 80°C) wash downs.

- **Mechanical design**

Winmate designs its products in-house and always comes up with innovative product design solutions. The P-Series Panel PC features a waterproof conduit pipe with extra protection. The custom-built watertight conduit pipe is preinstalled to give an additional layer of protection for the peripheral cables connected to the device.

- **Operational safety**

The included air vent valve comes with an automatic mechanical system to act as a safety device that controls and maintains pressure without the user's assistance to avoid air-related problems.

- **Signature true flat design**

Easy to clean and prevent liquid droplets from penetrating any openings in the device.

## Stainless Series with Push-Buttons

Winmate develops the solutions using cutting-edge technologies that help overcome different automation challenges you may encounter in food, chemical, pharmaceutical industries.

### Adjust 3 Touch Modes Easily by Turning the Knob

#### Hand Mode

Thanks to the PCAP technology, the series delivers excellent responsive performance by supporting multi-touch and allowing anyone to operate it efficiently with fingers.

#### Rain Mode

The Rain Mode is not affected by water and allows users to continue working in wet environments and inclement weather.

#### Glove Mode

This mode works not only with thin gloves but also with heavy work gloves.



### Full IP65 Rated SUS 316/ AISI 316 Stainless Steel Enclosure

The device features a SUS 316/ AISI 316 Stainless Steel housing with full IP65 compliance to be water and dustproof, meaning it can withstand overall splashing conditions, suitable to be deployed in food, pharmaceutical industries, or harsh environments with strict hygiene demands.

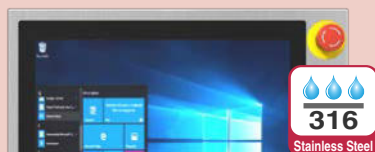
### Push-Button Front Panel

Push-buttons bring control and indication directly to the work area, eliminating wasted movement and increasing productivity. In addition, the physical buttons are especially needed for critical tasks like emergency shutdowns. When an emergency occurs, we don't want to waste time navigating through HMI screens but a quick and straightforward way to shut down the process.



### Waterproof USB Type-A Connector on Front Panel

The device is pre-built with a handy and waterproof USB Type-A connector on the front panel to allow users to plug-in peripherals easily.



# Application Story

## Beverage Packaging System



In the packaging industry, machine builders must select HMIs with correct functionality, intuitive control, comfortable screen size, and robust housing for various applications that are taking place in environments with high sanitary standards. A bottle packaging company was looking for stainless steel panel PCs to serve as a factory automation control terminal that improves production efficiency while enhancing the operator's safety. The organization wanted to have several flat buttons and a large emergency stop button on the front panel to define the functions. As a result, the buttons will directly connect to the sensors for fast response to authorized user controls or emergencies.

### Core products

- 10.1"~21.5" IP65 Stainless B Series Panel PC

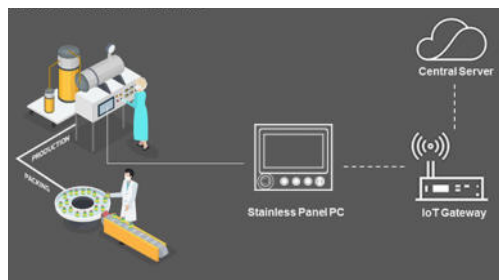
### Main Challenges

- User-defined function buttons
- Corrosion-resistant, water, and dustproof enclosure
- WLAN antenna unique customization user-friendly interface

“THE STAINLESS HMI WITH PHYSICAL BUTTONS TO DELIVER INTUITIVE OPERATION AND EFFORTLESS CONTROL.”

### Why Winmate

- User-defined function buttons and a large emergency button
- PCAP touch panel with a rotary switch for effortless touch mode selection
- Full IP65-rated and corrosion-resistant SUS 316/ AISI 316 stainless steel enclosure



Application Diagram: Production Line HMI Terminal

# 7"~22" G-WIN IP67 Panel PC

## G-WIN IP67 Series(Windows)



### “ AN IDEAL CHOICE FOR HYGIENE REQUIREMENTS. ”

- Intel® Celeron® Bay Trail N2930 1.83GHz Processor Fanless Design(IB Series)
- 15"~19", PCAP Touchscreen and Optical Bonding
- Intel® Core™ i5-1235U Processor (IAD Series)
- Intel® Celeron® Elkhart Lake N6211 Processor (IE Series)
- Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)(IT Series)
- Windows 11 IoT Enterprise SAC (64 bit) (Optional)  
Linux Ubuntu 22.04 (Optional)
- Full IP67 Protection, Fanless Design

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Optional True Flat 5 Wire Resistive Touch / Anti-Reflective Protection Glass with Panel

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Aluminum Die-Casting Housing with Anti-Corrosion Treatments

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Build in ambient light sensor

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Wide Range 9 to 36V DC Input with isolation. Optional for Ignition On/Off delay

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### Custom Configuration



Memory  
(IAD Series)



Storage  
(IAD Series)



### Application



### **Optimizing Quality Inspection with IP67 Panel PC**

#### **PRECISION AND EFFICIENCY, CRAFTING EXCELLENCE**

The implementation of the G-WIN IP67 Series significantly enhanced the efficiency of the quality inspection process. The real-time feedback from these Panel PCs empowered inspectors to make informed decisions, ultimately reducing defects on the production line.



## Custom Configuration

Up to  
**32 GB**

Memory  
(IAD Series)

Up to  
**2 TB**

Storage  
(IAD Series)



WLAN  
WLAN



BT

## Application



## **Optimizing Quality Inspection with IP67 Panel PC**

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# **7" ~ 22" G-WIN IP67(HB) Panel PC** **G-WIN IP67 Series(Android)**



**“ AN IDEAL CHOICE FOR  
HYGIENE REQUIREMENTS. ”**

- 7" ~22", PCAP Touchscreen and Optical Bonding
- ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz(MG Series)
- ARM A53 Quad Core 2.0GHz(IM Series)
- IP67 Protection, Fanless Design
- Android 13 Linux Yocto 5.10.104 with QT 5.15 (Optional)  
Linux Ubuntu 22.04 (Optional)(MG Series)
- Android 11 (Upgradeable to Android 13) Linux Yocto  
5.10.104 with QT 5.15 (Optional)  
Linux Ubuntu Server 22.04 (Optional)(IM Series)

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Optional True Flat 5 Wire Resistive Touch / Anti-Reflective  
Protection Glass with Panel

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Aluminum Die-Casting Housing with Anti-Corrosion  
Treatments

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Build in ambient light sensor

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Wide Range 9 to 36V DC Input with isolation. Optional  
for Ignition On/Off delay

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**10.4"~23.8" Stainless Panel PC**

# IP65 Stainless PCAP Chassis



**“ STAINLESS AND STURDY HOUSING. ”**

- 10.4" ~ 23.8" PCAP touchscreen
- Intel® Core™ i5-1135G7 Processor (IT Series)
- Intel® Celeron® N2930 Processor (IB Series)
- Intel® Celeron® Elkhart Lake N6211 Processor (IE Series)
- Windows 10 IoT Enterprise, Ubuntu 20.04 (IB Series)
- Windows 11 IoT Enterprise, Ubuntu 22.04 (IT and IE Series)

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Full IP65 dust / water resistant

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Fanless cooling system and ultra low power consumption

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SUS 316 / AISI 316 stainless steel for food and chemical industries

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Optical bonding (Optional)

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1 x LED indicator for power and 1 x LED indicator for storage

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100-240V AC to DC adapter with waterproof connector

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## Custom Configuration



Memory



Storage



WLAN



BT

## Application



### **Automatic Sorting Line**

**MAKES SORTING FASTER AND MORE ACCURATE**

New fully automated parcel sorting station now has a waterproof IP65-rated panel PC that helps the operator visualize the status and package distribution within the sorting station.

## Custom Configuration



Memory



Storage



BT



WLAN

## Application



### Food Factory Solution

DESIGNED TO MEET  
FOOD & BEVERAGE  
MANUFACTURING  
CHALLENGES

Embrace flexible mounting options, high performance, and IP69K/IP65 standards for ultimate water and dust resistance.

# 15"~23.8" Stainless Panel PC IP65 Stainless R Series Panel PC



**“ STAINLESS, IP65,  
RESISTIVE CHASSIS ”**

- 15" ~ 23.8", resistive chassis
- Intel® Core™ i5-1135G7 2.4GHz (turbo to 4.2 GHz)(IT Series)
- Intel® Core™ i5-1235U 3.3GHz (up to 4.40 GHz)(IAD Series)
- Windows 11 IoT Enterprise (Optional), Linux Ubuntu 22.04 (Optional)

Round corner design, IP65 Stainless Panel PC

A true flat, easy-to-clean front surface with an edge-to-edge design

Sealed to IP65 for protection against water and dust

Support glove/ rain mode

SUS 316/ AISI 316 stainless steel for food and chemical industries

Various mounting solutions

Optical bonding (Optional)

# 10.4"~19" Stainless Panel PC IP67 Resistive Chassis



## “ SCRATCH-RESISTANT TOUCH SCREEN. ”

- 10.4" ~ 19", resistive touchscreen
- Intel® Celeron® N2930 Processor (IB Series)
- Intel® Celeron® Elkhart Lake N6211 Processor (IE Series)
- Windows 10 IoT Enterprise, Ubuntu 20.04 (IB Series)
- Windows 11 IoT Enterprise, Ubuntu 22.04 (IE Series)

Fanless design

Full IP67 dust/ water resistant

Stainless housing with anti-corrosion treatment

Optical bonding with anti-moisture treatment

5 Wire resistive touch/ anti-reflection protection glass (Optional)

1x M12 waterproof connector for 2 x USB2.0

1 x waterproof Giga LAN RJ45 connector

1 x LED indicator for power and 1 x LED indicator for storage

100-240V AC to DC adapter with waterproof connector

## Custom Configuration



Memory



Storage



WLAN



Protection  
Glass



BT

## Application



## Self-Order Kiosk

**SPEED UP ORDERS  
AND INCREASE  
CUSTOMER  
SATISFACTION**

Sealed to IP67, Winmate's 19" panel PC now accept orders in a french fast food chain. After busy days, the operator uses water to clean the surface to meet food safety authorities' requirements.

## Custom Configuration



Memory



Storage



WLAN



BT

## Application



### Pharmaceutical Packaging Automation

**CORROSION RESISTANT,  
HYGIENIC,  
HIGH-PERFORMANCE**

HMI control terminals for packaging machines to improve processes, capping, labeling, and collation systems and monitor the operation on a supervisory level, checking for low hopper levels, fallen bottles, and low-level supplies.

# 15" ~ 23.8" Stainless Panel PC IP69K P Series with Conduit Pipe



**“ PERFECT TERMINAL FOR  
STRICT HYGIENE DEMANDS. ”**

- 15" ~23.8", PCAP touchscreen
- 11th Gen. Intel® Core™ i5-1135G7 2.4GHz (up to 4.2GHz)(IT Series)
- 12th Gen. Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)
- Windows 11 IoT Enterprise SAC (64 bit) (Optional)  
Linux Ubuntu 22.04 (Optional)

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Fanless cooling system

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Stainless steel for food and chemical industries

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Full IP69K waterproof enclosure, good corrosion resistance

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A true flat, easy-to-clean front surface with an edge-to-edge design

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Waterproof sealed conduit pipe for cable protection

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Supports VESA/Yoke mount

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**10.4"~23.8" Stainless Panel PC**

# IP69K Stainless PCAP Chassis



## “ WITHSTANDS HIGH PRESSURE WASHDOWNS ”

- Intel® Core™ i5-1235U (IAD Series)
- 10.4" ~ 23.8", PCAP touchscreen
- Intel® Core™ i5-1135G7 Processor (IT Series)
- Intel® Celeron® N2930 Processor (IB Series)
- Intel® Celeron® Elkhart Lake N6211 Processor (IE Series)
- Windows 10 IoT Enterprise, Ubuntu 20.04 (IB Series)
- Windows 11 IoT Enterprise, Ubuntu 22.04 (IT, IE and IAD Series)

Stainless steel for food and chemical industries

Full IP69K

A true flat, easy-to-clean front surface with an edge-to-edge design

Plenty of I/Os, including USB 2.0, RS232, and RJ45-10/100/1000 LAN

Waterproof ports with adapter cables for external connectivity

Supports VESA/Yoke mount

Supports glove/ rain mode

### Custom Configuration



Memory



Storage



BT



WLAN

### Application



### **Production Line Machine Controller**

#### **FAST PRODUCT DEPLOYMENT IN THE FACTORY**

Sealed to IP69K, Winmate's 15" stainless panel PC was deployed as a machine controller in the biscuit production line to boost operation efficiency and improve internal process control.

## Custom Configuration



Memory



Storage



Wide Power  
Input



WLAN

## Application



## Factory Automation

**CORROSION RESISTANT,  
STYLISH HMI  
CONTROLS IN HARSH  
ENVIRONMENTS**

Winmate's all-new 17" panel PC with push buttons was installed inside machine-control terminals in the factory operating in the food and beverage industry. Push buttons on the HMI terminal provide excellent tactical feedback necessary for emergencies.

# 10.1" ~ 21.5" Stainless Panel PC IP65 B Series with Push Buttons



**“SPEED UP RESPONSE TIME IN  
EMERGENCY SITUATIONS.”**

- 10.1" ~ 21.5", PCAP touchscreen
- Intel® Celeron® N2930 Processor (IB Series)
- Intel® Celeron® Elkhart Lake N6211 Processor (IE Series)
- Windows 11 IoT Enterprise, Ubuntu 22.04 (IE Series)
- Windows 10 IoT Enterprise, Ubuntu 20.04 (IB Series)

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Fanless cooling system

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Full IP65 waterproof enclosure, good corrosion resistance

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A true flat, easy-to-clean front surface with an edge-to-edge design

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Supports VESA mount

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Rotary switch adjust different touch mode for hand/ rain/ glove application

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Emergency and flat buttons for automation device control

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Stainless steel housing

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# 10.4"~19" Featured Display IP67 Stainless Resistive Chassis



“ **RUGGED. WATERPROOF.  
DUSTPROOF.** ”

- 10.4"~19", resistive touchscreen
- Stainless steel housing SUS 316/ AISI 316
- VESA mount

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M12 waterproof connector for touch screen control

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M12 waterproof connector VGA input

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M12 waterproof connector power input 12 V DC

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OSD control five keys

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Support VESA mount and Yoke mount

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Full IP67 waterproof and dustproof

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## Custom Configuration



Waterproof  
DVI-D



Waterproof  
HDMI



Protection  
Glass (No  
Touch)

## Application



## **Pharmaceutical Manufacturing Control Systems**

### **INCREASE PRODUCTIVITY AND PROFITABILITY**

Real-time access and extended enterprise visibility to vital manufacturing data are now more comfortable with Winmate's IP67 stainless display designed to withstand corrosion and resist water and dust.



## Custom Configuration



Waterproof  
DVI-D



Waterproof  
HDMI

## Application



### Food Production Plant

#### EASY TO CLEAN FOR HYGIENIC REQUIREMENTS

Sealed to IP69K, Winmate's Stainless Steel Display was installed in a food processing facility to withstand high-pressure washdowns every day.

# 10.4"~23.8" Featured Display IP69K Stainless PCAP



**“ WITHSTAND HIGH  
PRESSURE WASHDOWNS,  
EASY-TO-CLEAN ”**

- 10.4"~23.8" PCAP touchscreen
- Stainless steel housing SUS 316/ AISI 316
- Full IP69K with air venting valve

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M12 waterproof connector for touch screen control

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M12 waterproof connector VGA input

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M12 waterproof connector power input 12 V DC

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Air venting valve design

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OSD control five keys

---

Support VESA mount and Yoke mount

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Full IP69K waterproof and dustproof

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# 15"~23.8" Featured Display

## IP69K P Series with Conduit Pipe



**“ EXTRA PROTECTION WITH CONDUIT PIPE. ”**

- 15" ~ 23.8", PCAP touchscreen
- Stainless steel housing SUS 316/ AISI 316
- Full IP69K

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Fanless cooling system, IP69K stainless display with waterproof sealed conduit pipe

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Full IP69K waterproof enclosure

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A true flat, easy-to-clean front surface with edge-to-edge design

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Waterproof sealed conduit pipe for cable protection

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Supports VESA mount and Yoke mount stand

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Optical bonding (Optional)

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### Custom Configuration



HDMI

### Application



### **Pharmaceutical Packaging Automation**

#### **INTUITIVE TOUCH CONTROLS**

Winmate P Series hygienic display as a part of operator control terminal system for beverage packaging machines and automation systems allow leveraging data and analytics to improve processes, capping, labeling, and collation systems and monitor the operation on a supervisory level.

## Custom Configuration



Waterproof  
DVI-D



Waterproof  
HDMI

## Application



### **Automotive Part Manufacturing Plant**

**RESISTS ANY  
SUBSTANCE WITH  
ROBUST STAINLESS  
DESIGN**

Winmate's IP65 Stainless Steel Displays installed in an automobile parts manufacturing facility where the corrosion-resistant housing can withstand the chemicals used.

# 10.4"~32" Featured Display IP65 Stainless PCAP



**“ DURABLE IN ALL HARSH  
ENVIRONMENTS. ”**

- 10.4"~32", PCAP touchscreen
- Stainless steel housing SUS 316/ AISI 316
- VESA mount

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M12 waterproof connector for touch screen control

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M12 waterproof connector VGA input

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M12 waterproof connector power input 12 V DC

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OSD control five keys

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Support VESA mount and Yoke mount

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Stainless steel housing SUS 316/ AISI 316

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Full IP65 waterproof and dustproof

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## 8.4"~55" Featured Display

# IP65 Stainless Resistive Chassis



## “ WATERPROOF AND CORROSION RESISTANT.”

- 8.4"~55", resistive touchscreen
- Stainless steel housing SUS 316/ AISI 316
- VESA mount

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M12 waterproof connector for touch screen control

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M12 waterproof connector VGA input

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M12 waterproof connector power input 12 V DC

---

OSD control five keys

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Support VESA mount and Yoke mount

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Stainless steel housing SUS 316/ AISI 316

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Full IP65 waterproof and dustproof

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### Custom Configuration



Waterproof  
DVI-D



Waterproof  
HDMI



Protection  
Glass (No  
Touch)

### Application



### **Packaging Automation System**

#### **IMPROVE PACKAGING FLEXIBILITY**

Information display at the  
bottling water on the plant  
makes packaging machines  
smarter.

# 15" ~ 21.5" G-WIN IP67(HB) Display

## G-WIN IP67 Series

### Custom Configuration



HDMI



Protection  
Glass



### Application



## “PERFECT DISPLAY SOLUTIONS FOR HYGIENE REQUIREMENTS,”

- 15"~21.5", PCAP touchscreen
- 1024 x 768 resolution, 1000 nits (15-inch)
- IP67 Certified with VESA Mounting

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Optional True Flat 5 Wire Resistive Touch / Anti-Reflective Protection Glass with Panel

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Aluminum Die-Casting Housing with Anti-Corrosion Treatments

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Build in ambient Light sensor

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-10°C to 55°C wide operating temperature

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Wide Range 9 to 36V DC Input with isolation. Optional for Ignition On/Off delay

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### Enhancing Efficiency in Hazardous Environments

**BUILT TO ENDURE,  
SEALED FOR  
ASSURANCE**

Winmate G-WIN IP67 Display Series has demonstrated resilience in extreme temperatures and moisture, not only raising safety standards but also significantly enhancing operational efficiency.

# 15"~21.5" Featured Display Stainless Panel Mount



**“DURABLE LCD SOLUTION.”**

- 15"~21.5", resistive chassis display
- Panel mount, VESA mount
- Front IP65

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VGA and HDMI input

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OSD control five keys(17"~22")

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Panel mount, support VESA mount

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Power input 12V DC

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Stainless steel front bezel

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## Custom Configuration



Protection  
Glass



HDMI



DVI-D



USB Type-A



RS232



Resistive  
Touch

## Application



### **Chemical Factory**

#### **SCRATCH-RESISTANT SCREEN AND STAINLESS HOUSING**

Winmate's 12.1" Stainless Display with IP65 water and dust protection rating was installed in a chemical factory's HMI terminal. Resistant to scratches screen combined with corrosion-resistant housing for best vaccine production facilities.





**IP65 STAINLESS  
B SERIES  
WITH PUSH BUTTONS**



**IP69K STAINLESS  
P SERIES  
WITH CONDUIT PIPE**

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**WINMATE STAINLESS  
SERIES FOR THE FOOD,  
BEVERAGE AND  
CHEMICAL INDUSTRY**





**IP65 STAINLESS  
R SERIES  
PANEL PC**

**G-WIN  
IP67 SERIES  
PANEL PC**

