

# Cleanroom HMI Panel PC - 8000 series

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## Highlights

Elegant stainless steel HMI with integrated PC for life science environments in a design and construction easy to clean and disinfect. Withstands all known cleaning agents and disinfectants.

Projective multi touch technology works with gloves improving workflow and productivity. A typical use case would be three layers of gloves, one layer of cotton gloves and two layers of nitrile/latex or silicone gloves. The multi touch display provides auto calibration for seamless operation.

Blue Line's HMIs are designed for 24/7 operation, with a low power consumption, passive cooling and without moving parts for maximum operational reliability.

When you combine Blue Line's HMIs with a supporting arm, the cables are hidden in the supporting arm, thus preventing the accumulation of bacteria.

If the product does not fully meet the requirements, Blue Line has the capability to configure fully to specific requirements to functionality, finish and environment.

- HMI for Life Science / GMP / FDA environment
- Fully sealed enclosure in stainless steel AISI 304 or 316L
- IP66 water and dustproof
- Easy to clean and keep sterile
- Withstands all known cleaning agents and disinfectants
- 15.6", 21.5" or 24" display size (option for other sizes)
- Full HD resolution 1920 x 1080
- Projective capacitive multi touch
- Supports operation with gloves
- Integrated PC with Intel Core i3 / i5 / Celeron
- Fanless operation for maximum reliability
- Windows 7 / 8 / 10
- ThinManager support
- Option for WIFI and Bluetooth
- Flexible mounting for wall, desktop, supporting arms etc.
- Cables are hidden within supporting arm



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## Specifications

### Model Type

HMI stainless steel Panel PC

160/160 - 178/178

### Construction

Fully sealed enclosure in stainless steel AISI 304 or 316L

### Cooling

Fanless

### Processor

Intel Celeron N2930, 1.83GHz  
Intel 6th gen. Core i3-6100U, 2.3GHz  
Intel 6th gen. Core i5-6300U, 2.4GHz

### Ingress Protection

IP66 water and dustproof

### Chipset

Integrated SoC

### Environment

Operating temperature 0°C to +50°C  
(For 15.6" option for -20°C to +60°C)  
Storage temperature -30°C to +70°C  
Humidity 10 to 90% @ +40°C, (non- condensing)

### RAM

4GB / 8GB / 16GB DDR4 SO-DIMM

### Certification

CE / FCC CLASS A

### Storage

1 x 2.5" SSD

### Display

15.6"	1920 x 1080, 16:9, FHD	color TFT LCD
21.5"	1920 x 1080, 16:9, FHD	color TFT LCD
24"	1920 x 1080, 16:9, FHD	color TFT LCD

### Rear Input / Output

2 x USB 2.0 (IP68)  
1 x GbE LAN (IP68)  
1 x DC power (IP68)

### Touch

Projected capacitive multi touch (supports gloves)  
No touch (optional)  
Optical bonding (optional)

### Expansion

1 x Mini PCIe slot for WIFI/Bluetooth(optional)

### Brightness

15.6" and 21.5"	300 nits
24"	250 nits
All sizes	Option for high brightness 1000 nits

### Special Function

Touch on/off button on the side edge for hygienic cleaning

### Colors

16.7M

### Operating System

Windows 7 / 8 / 10  
Windows Embedded 7 / 8  
Windows 10 IoT Enterprise  
Linux

### Thin Client

ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix and others

### Power Supply

+9V to +36V DC-input

### Viewing Angle



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## Power Consumption

Max 42W

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## Mounting

VESA 100  
Stainless steel supporting arm  
Stainless steel tube mount  
Stainless steel desktop stand  
Stainless steel yoke mount

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## Dimension and Weight

15.6"	H 290 x W 440 x D 55mm	7.2kg
21.5"	H 362 x W 571 x D 55mm	10kg
24"	H 423 x W 656 x D 53mm	12.6kg

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## Accessories Included

AC to DC power adapter with M12

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## Accessories Optional

Stainless steel scanner bracket  
802.11a, b, g, n, ac, ax (WIFI 6) and Bluetooth 5.1 (Windows 10)  
802.11a, b, g, n, ac and Bluetooth 5.0 (compatible with Windows 7 / 8 / 10)  
Antibacterial mouse  
Antibacterial keyboard  
Combine with Mobile Operator Station  
Other options available according to requirements

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## Warranty and After Sales Support

Standard 1 year (option for 3 years)

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## Ordering Information

2520

