

# 21.5" Operator Station for Cleanroom - Monitor

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**BLUE LINE**  
IT for Demanding Environments

- has more than 30 years experience
- delivers reliable IT solutions for demanding environments
- builds compact and high performance solutions
- focuses on long duration, 24/7-operation, and ruggedness
- is ISO 9001:2015-certified
- is known for providing the best assistance and services in all phases.

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## Highlights

All-in-one stainless steel HMI with integrated touch or membrane keyboard for operation in cleanroom. Very easy to clean and disinfect due to smooth sides, rounded edges and a flat, smooth front. Crafted from AISI 316L stainless steel withstanding all known cleaning agents and disinfectants.

Both the display and the keyboard are based on cutting-edge technology that works with gloves. A typical use case would be three layers of gloves, one layer of cotton gloves and two layers of nitrile/latex or silicone gloves. It is also possible to combine with thicker safety gloves. The multi touch display provides auto calibration for seamless operation.

If you choose touch keyboard, the sensitivity is adjustable to suit the number of layers of gloves. This unique technology is chosen by most of the leading pharmaceutical manufacturers, because traditional keyboards break down and cannot be cleaned completely thus compromising regulatory requirements.

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.

Available as monitor or with integrated PC, thin client or KVM. Blue Line's modular design makes it possible to configure fully to specific requirements to functionality, finish and environment.

- Life Science / GMP / FDA environment
- Stainless steel AISI 316L
- Integrated touch or membrane keyboard
- Easy to clean & disinfect
- Withstands all known detergents: iso-propyl alcohol, non-deionized water, VHP, Spor-Klenz™, Klercide, Actisan, LpH®, Vesphene® and more
- Meets all cleanroom, GMP and FDA requirements
- 21.5" PCAP multi touch display
- Operable with up to 3 layers of cleanroom gloves
- IP65 dust and waterproof
- Monitor
- Full HD resolution 1920 x 1080
- Option for KVM extender
- Option for integration of customers client
- Fanless operation
- Wide range of options: USB, COM, reset and barcode reader
- Flexible mounting wall / pipe / swivel arm
- Long product life cycle
- Customisation according to your requirements



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## Specifications

### Model Type

HMI stainless steel Monitor with integrated keyboard

105 keys

Robust polyester front foil with key embossment

Capacitive touchpad

Chemical, abrasion and scratch resistant frontsheet

Various language layouts available

### Construction

Fully sealed enclosure in stainless steel AISI 304

Optional acid resistant stainless steel AISI 316L

### Cooling

Fanless

### Front Input / Output

Option for: USB 2.0 ports

COM ports

Reset

All connectors come with waterproof cap

### Ingress Protection

IP65

### Rear Input / Output

1 x HDMI / optional 1 x VGA

1 to 4 x USB 2.0 ports

1 x Power input

COM ports optional

All connectors come with waterproof cap

### Environment

Operating temperature 0°C to +50°C

### Power Supply

+90V to +264V AC-input

Option for +10V to +36V DC-input

### Certification

CE / FCC CLASS A

### Display

21.5" 1920 x 1080, 16:9, FHD LCD

### Power Consumption

Max 40W

### Touch

Projected capacitive multi touch (supports gloves)

### Mounting

Wall / top / pipe

Other options available according to requirements

### Brightness

250 nits

### Dimension and Weight

21.5" H 364 x W 573 x D 323mm 18.2kg

### Viewing Angle

160/160

### Special Function

Option for internal barcode reader

### Keyboard

Touch keyboard

103 keys

Flat glass capacitive touch surface (supports gloves)

Capacitive touchpad

Numeric keypad

DIN 42115 chemical resistance

Various language layouts available

Membrane keyboard

### Warranty and After Sales Support

Standard 1 year (option for 3 years)

