HMI Panel PC with Keyboard for Cleanroom

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IT for Demanding Environments
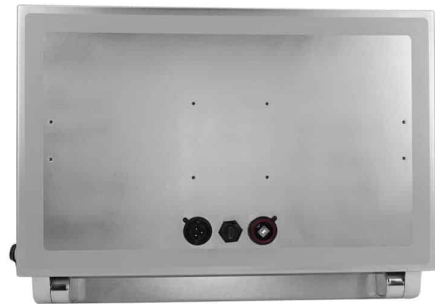
HMI Panel PC with Keyboard for Cleanroom

Highlights

Elegant stainless steel HMI available with either touch or membrane keyboard for cleanroom operation. Very easy to clean and disinfect due to smooth sides, rounded edges and a flat, smooth front. Withstands 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

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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 low power consumption, passive cooling and without moving parts for maximum operational reliability.

Available as monitor or with integrated PC, thin client or KVM. Mounting is possible on wall, machine as well with a large range of supporting arms. Blue Line's modular design makes it possible to configure fully to specific requirements to functionality, finish and environment.

Blue Line's modular design makes it possible to configure to specific needs in functionality, finish and environment. Get free advice from our experts and let us set up a Teams meeting for an online demo and Q&A. Benefit from our experience and knowledge based on numerous installations in biotech and pharmaceutical sites around the world.

• Life Science / GMP / FDA environment

• Stainless steel AISI 304 or 316L

• 21.5" and 24" PCAP multi touch display

• Adjustable hinged 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 cleanroom & GMP requirements

• Operable with up to 3 layers of cleanroom gloves

• Full HD resolution 1920 x 1080

• IP65 dust and waterproof

• Integrated PC / client

• Fanless operation

• Optional Nymi ready - integrated reader

• ThinManager support

• Windows 10 / 11 & Linux

• Wide range of options: USB, LAN, serial, reset

HMI Panel PC with Keyboard for Cleanroom

• Flexible mounting VESA / wall / pipe / swivel arm / gas arm

• Long product life cycle

• Customisation according to your requirements

Specifications

Model Type

HMI stainless steel Panel PC with keyboard

Construction

Fully sealed enclosure in stainless steel AISI 304
Optional acid resistant stainless steel AISI 316L

Cooling

Fanless

Ingress Protection

IP65

Environment

Operating temperature	0°C to +50°C
Storage temperature	-30°C to +70°C
Humidity	10 to 90% @ 40°C, non-condensing

Certification

CE / FCC CLASS A

Display

21.5"	1920 x 1080, 16:9, FHD	LCD panel
24"	1920 x 1080, 16:9, FHD	LCD panel

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Touch

Projected capacitive multi touch (supports gloves)

Brightness

300 nits

Viewing Angle

178/178

Keyboard

Touch keyboard

Processor

Intel Celeron J6412 4C/4T, 2.0GHz (Turbo 2.6GHz)

Chipset

Integrated SoC

RAM

Celeron J6412	1 x DDR4 SO-DIMM socket, max 32GB 3200MHz
Core i5-8365UE	1 x DDR4 SO-DIMM socket, max 32GB 2400MHz

Storage

1 x 2.5" SSD

Front Input / Output

Option for:	USB ports
	COM ports
	Reset
	All connectors come with waterproof cap
	Nymi ready - integrated reader

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Rear Input / Output

1 x Gbe LAN (2 x LAN optional)

1 to 4 x USB ports

COM ports optional

1 x Power input

All connectors come with waterproof cap

Expansion

WIFI/Bluetooth (optional)

Operating System

Windows 10 / 11

Windows 10 / 11 IoT Enterprise

Linux

Thin Client

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

Power Supply

+90V to +264V AC-input

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

Power Consumption

Max 40W

Mounting

VESA 100

Stainless steel supporting arm

Stainless steel tube mount

Stainless steel desktop stand

Other options available according to requirements

Dimension and Weight

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21.5"	H 364 x W 573 x D 323mm	18.2kg
24"	H 458 x W 590 x D 325	

Accessories Optional

Mounting plate for handheld barcode scanner

Stainless steel keyboard shelf

Warranty and After Sales Support

Standard 1 year (option for 3 years)