



**BEST-IN-CLASS
HMI SYSTEMS FOR THE
LIFE SCIENCE INDUSTRY**
STANDARD VERSIONS



PRECONFIGURED SYSTEMS SAVE YOU TIME AND MONEY

We have put together four standard versions of our HMI systems, based on our many years of experience from customer projects in the GMP sector. These versions are perfectly tailored to the specific requirements of your main application, which helps you to quickly identify the exact system that is right for you, and opens the door to a whole host of benefits.

THREE SIMPLE STEPS ARE ALL IT TAKES

1

REQUIREMENTS

Ideally, you will already have an overview of the different versions we provide, and let us know your thoughts in an initial discussion.

2

CONSULTING

We discuss the possibilities afforded by the individual versions together to find the ideal solution for you.

3

BENEFITS

Our versions consist of standard components, meaning you benefit from fast processing times and lower costs.

LIGHT

When the main focus is the budget rather than computing power.

BENEFITS



Easy to operate thanks to resistive touch functionality compatible with almost all glove types.



Affordable entry-level version for GMP-compliant hardware solutions.



Ideal for projects on a budget.

AVAILABLE FOR THE FOLLOWING PRODUCTS:

WAVE 221

ENDPOINT

For virtualized server-based solutions via Microsoft TSE/RDP, Citrix, etc.

BENEFITS



Ideal for use with IGEL OS, ThinManager or similar endpoint solutions. Alternatively, it can also be used as a Windows thin client.



The perfect solution for getting the most out of your cleanroom with virtualized applications.



For use as a MES/DCS system, for KPI/status displays, or cloud applications (e.g. Microsoft Azure).

AVAILABLE FOR THE FOLLOWING PRODUCTS:

WAVE | PILOT | CONTROL

ALLROUND

Meets all the requirements for an MES system in the life science sector.

BENEFITS



Fat client/PC solution for Windows 10 applications; can be expanded with extensive interfaces and bundles.



All applications are based on Windows 10 with the required interfaces. RFID/NFC authentication solutions (optional CONNECT BOX required).



The best equipment/performance ratio for an HMI system based on Windows 10.

AVAILABLE FOR THE FOLLOWING PRODUCTS:

WAVE | PILOT | CONTROL

PERFORMANCE

High-performance equipment for exceptional performance and interface requirements.

BENEFITS



Fat client/PC solution for use where computing power is required locally.



Designed for high-performance applications, redundant network connections, or extensive connectivity with terminal devices (e.g. chromatographs or analyzers).



Superb performance for demanding applications.

AVAILABLE FOR THE FOLLOWING PRODUCTS:

WAVE | PILOT | CONTROL



CUSTOM

Can't find the right PC configuration for your requirements? Don't worry, we can always offer you a customized solution. Our HMI systems are optionally available with features such as loudspeakers, an emergency shut-off function, and function keys, as well as customer-specific interfaces. We would be pleased to advise you.

STANDARD VERSIONS

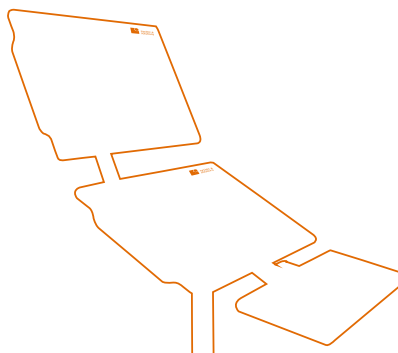
NEW!

TECHNICAL DATA | WAVE + PILOT

FEATURES		LIGHT	ENDPOINT
		available with WAVE 221	available with WAVE 221 / 224 / 232 ¹ / 255 ¹ and PILOT 217 / 219 / 221
Basic		32 GB SSD 4 GB RAM Intel Celeron N2930 1.83 - 2.16 GHz 21" resistive touch display 1x USB 1x Gigabit Ethernet	128 GB SSD 8 GB RAM Intel Celeron N2930 1.83 - 2.16 GHz PCT multi-touch with optical bonding ² 2x USB 2x Gigabit Ethernet 1x Bluetooth
OPERATING SYSTEMS			
Windows 10	Windows 10 license (LTSC optional)	●	●
IGEL OS	IGEL Endpoint OS	●	●
OPTIONS			
Keyboard+	Glass or membrane keyboard	●	●
Keyboard RFID	Glass keyboard with RFID / authentication	-	●
Forked scanner holder	Forked scanner holder for cable-based or Bluetooth holder	●	●
Scanner cradle	Standard scanner cradles (e.g. Zebra oder Datalogic)	-	●
AC	Power supply	●	●
DC	Power supply	●	●
RFID/NFC/ smartcard reader	WAVE: CONNECT BOX at the side PILOT: RFID on the front	-	-
BUNDLES			
Duplex bundle	External DisplayPort monitor interface, 2x additional USB (touch-screen+ accessories)	-	●
Authentication bundle	CONNECT BOX/RFID reader for authentication, e.g. for Nymi	-	●

¹with FULL-HD resolution

²55-inch model without optical bonding



FEATURES

Basic

ALLROUND

available with WAVE 221 / 224 / 227 / 232 / 255 and PILOT 217 / 219 / 221

128 GB SSD
 8 GB RAM
 Intel i5-7300U (2.6 - 3.5 GHz)
 Dual-Core
 PCT multi-touch with optical bonding²
 2x USB
 1x Gigabit Ethernet
 1x Bluetooth

PERFORMANCE

available with WAVE 221 / 224 / 227 / 232 / 255 and PILOT 217 / 219 / 221

256 GB SSD
 16 GB RAM
 Intel i7-8665UE (1.7 - 4.4 GHz)
 Quad-Core
 PCT multi-touch with optical bonding²
 4x USB
 2x Gigabit Ethernet
 1x Bluetooth
 1x DisplayPort

OPERATING SYSTEMS

Windows 10	Windows 10 license (LTSC optional)	●	●
IGEL OS	IGEL Endpoint OS	-	-

OPTIONS

Keyboard+	Glass or membrane keyboard	●	●
Keyboard RFID	Glass keyboard with RFID / authentication	●	●
Forked scanner holder	Forked scanner holder for cable-based or Bluetooth holder	●	●
Scanner cradle	Standard scanner cradles (e.g. Zebra oder Datalogic)	●	●
AC	Power supply	●	●
DC	Power supply	●	●
RFID/NFC/smartcard reader	WAVE: CONNECT BOX at the side PILOT:RFID on the front	●	●

BUNDLES

Duplex bundle	External DisplayPort monitor interface, 2x additional USB (touch-screen+ accessories)	●	-
Authentication bundle	CONNECT BOX/RFID reader for authentication, e.g. for Nymi	●	●

OPERATING SYSTEMS

Windows 10	Windows 10 license (LTSC optional)	●	●
IGEL OS	IGEL Endpoint OS	-	-

OPTIONS

Keyboard+	Glass or membrane keyboard	●	●
Keyboard RFID	Glass keyboard with RFID / authentication	●	●
Forked scanner holder	Forked scanner holder for cable-based or Bluetooth holder	●	●
Scanner cradle	Standard scanner cradles (e.g. Zebra oder Datalogic)	●	●
AC	Power supply	●	●
DC	Power supply	●	●
RFID/NFC/smartcard reader	WAVE: CONNECT BOX at the side PILOT:RFID on the front	●	●

BUNDLES

Duplex bundle	External DisplayPort monitor interface, 2x additional USB (touch-screen+ accessories)	●	-
Authentication bundle	CONNECT BOX/RFID reader for authentication, e.g. for Nymi	●	●

OPERATING SYSTEMS

Windows 10	Windows 10 license (LTSC optional)	●	●
IGEL OS	IGEL Endpoint OS	-	-

OPTIONS

Keyboard+	Glass or membrane keyboard	●	●
Keyboard RFID	Glass keyboard with RFID / authentication	●	●
Forked scanner holder	Forked scanner holder for cable-based or Bluetooth holder	●	●
Scanner cradle	Standard scanner cradles (e.g. Zebra oder Datalogic)	●	●
AC	Power supply	●	●
DC	Power supply	●	●
RFID/NFC/smartcard reader	WAVE: CONNECT BOX at the side PILOT:RFID on the front	●	●

BUNDLES

Duplex bundle	External DisplayPort monitor interface, 2x additional USB (touch-screen+ accessories)	●	-
Authentication bundle	CONNECT BOX/RFID reader for authentication, e.g. for Nymi	●	●

²55-inch model without optical bonding

²55-inch model without optical bonding

STANDARD VERSIONS

NEW!

TECHNICAL DATA | CONTROL

FEATURES

Basic

Operating systems

Options

ENDPOINT

available with CONTROL 217 / 221 / 224 and 232¹

128 GB SSD
8 GB RAM
Intel Celeron N2930 (1.83 - 2.16 GHz)
PCT multi-touch with optical bonding²
2x USB
2x Gigabit Ethernet
1x VGA
1x RS232
1x Bluetooth

Windows 10
IGEL OS

Front panel bolts
Front panel holes
AC power supply
DC power supply

¹with FULL-HD resolution

ALLROUND

available with CONTROL 217 / 221 / 224 and 232

128 GB SSD
8 GB RAM
Intel i5-7300U (2.6 - 3.5 GHz) Dual-Core
PCT Multi-Touch mit Optical Bonding²
4x USB
2x Gigabit Ethernet
1x DisplayPort
1x HDMI
1x Bluetooth

Windows 10

Front panel bolts
Front panel holes
AC power supply
DC power supply

FEATURES

Basic

Operating systems

Options

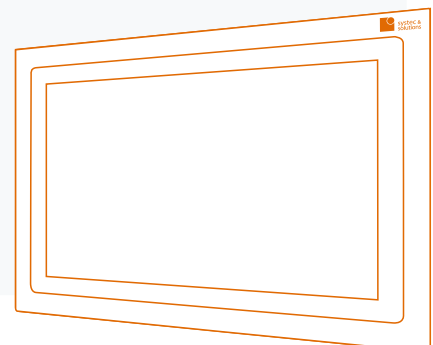
PERFORMANCE

available with CONTROL 217 / 221 / 224 and 232

256 GB SSD
16 GB RAM
Intel i7-8665UE (1.7 - 4.4 GHz) Quad-Core
PCT Multi-Touch mit Optical Bonding²
4x USB
2x Gigabit Ethernet
1x DisplayPort
1x USB-C
1x RS232
1x Bluetooth

Windows 10

Front panel bolts
Front panel holes
AC power supply
DC power supply



Do you have any questions?

Our service team will be happy to help:

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