











Portfolio

Solutions for cleanroom applications









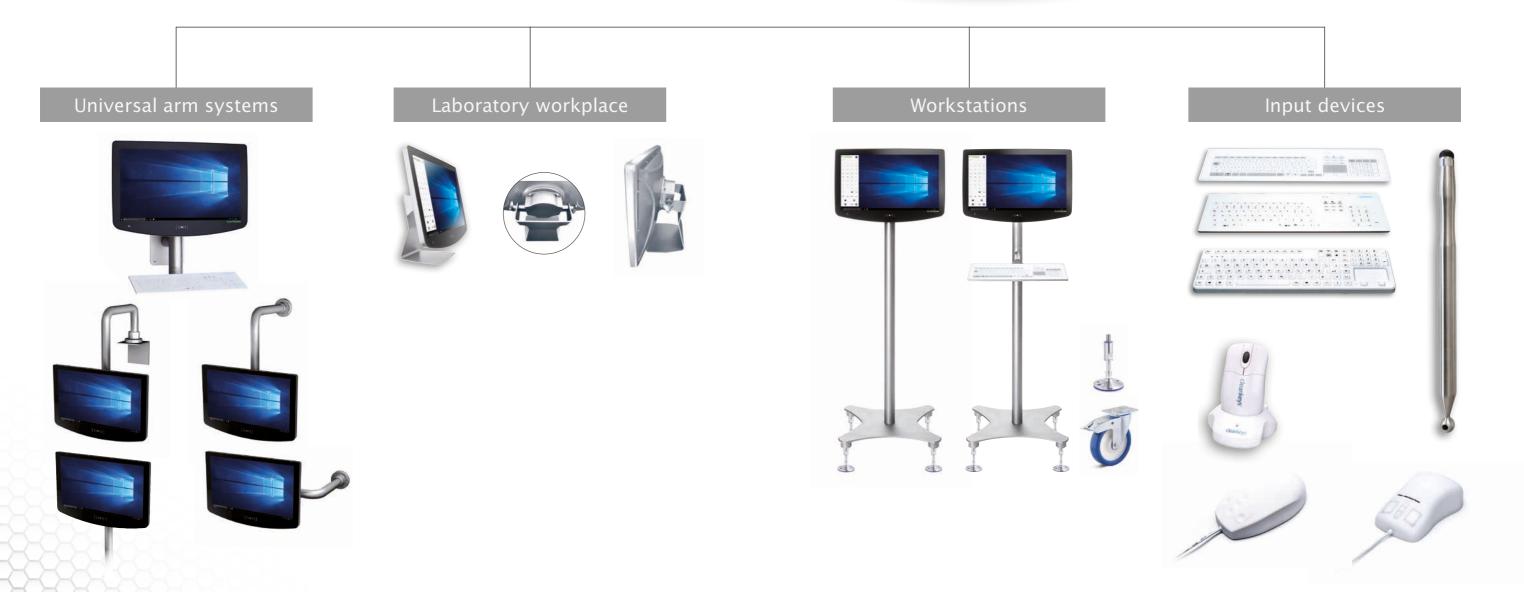


Product overview

Individual clean room solutions and optional configurations









Cleanroom Design

smooth surfaces and high chemical resistance



Effective and Safe Cleaning

By systematically eliminating frames and welded seams our products in the CR series have a completely smooth and easy-to-clean surface, without any joints or grooves. The IPC's enclosure is beveled towards the back so that liquids can flow off and do not accumulate on the enclosure's upper edge.

High chemical resistance of all materials

The materials used have a high resistance to industry-standard disinfectants and cleaning agents. Individual tests for special chemical substances are possible in cooperation with the Frauenhofer Institut Stuttgart.

High Level of Integration

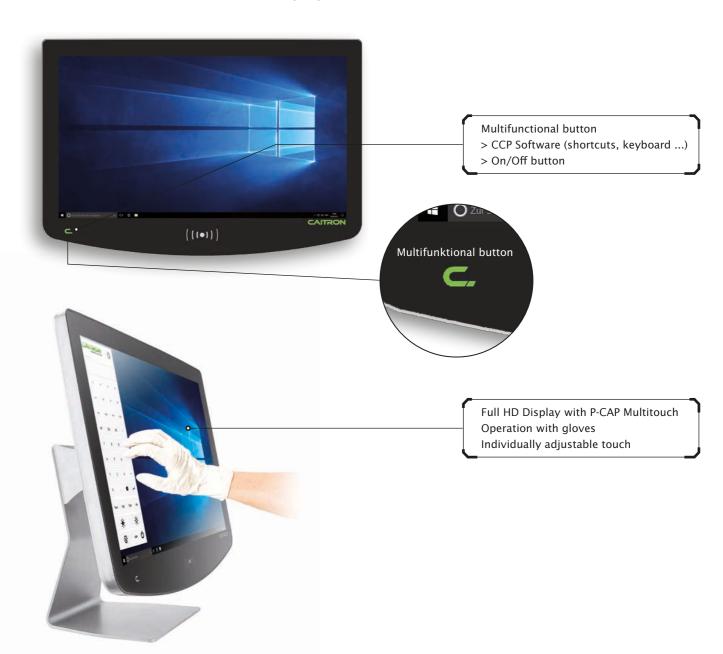
Integrated in the IPCs are WLAN, Bluetooth®, a power supply unit and a reader (RFID/NFC). In this way the kind of hygiene and leak-tightness risks that can occur with external connections are avoided.

Low emission materials

All materials used have low emission values. For particularly demanding requirements, FFKM and other materials are also available.

Excellent visualization and easy to operate

on P-CAP multi touch full HD displays 17-24"



P-CAP Multitouch

The P-CAP Multitouch offers an intuitive and convenient operation - similar to common modern touch pads and smartphones. Thus you can use drag & drop and multitouch functionalities such as zooming. The touch sensitivity, moreover, can be adjusted easily according to individual needs.

Full HD displays

Excellent visualization on modern full HD wide-screen displays.

Multifunctional button

The multifunctional button opens the CCP Software per default. The software can be configured entirely to meet personal needs. It includes per default a cleaning mode, a numblock and keyboard along with brightness control.



Safe use up to GMP class A / B

Certified by Fraunhofer Institute - Tested Device



Fraunhofer

TESTED[®] DEVICE

CAITRON GmbH Cleanroom HMI CR-series **Report No. CA 2005-1157**

Product series Hygienic Design

Qualification Certificate

This is to certify that the product mentioned above, provided by

CAITRON GmbH

Ramerberg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number CA 2005-1157.

The Cleanroom HMI CR-series is principally suitable for use in hygienic areas up to the following GMP Class according to EU GMP Annex 1:

Suitabilit

up to GMP Class A/B

However, this recommendation only pertains to the operating utility when in a resting state. An overall assessment can only be made after its installation in the production line.

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

www.tested-device.com

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report. Report No. first document

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Place, current date



Highest level of hygiene safety

KIN-Hygienic-Conformity - for the use in hygienically sensitive areas





Technical information

CR17 - 17" Hygienic HMI





	CR17	
Dimensions	in mm (HxWxD) Weight (depending configuration)	315 x 447 x 64 mm 5,9 kg
Housing	Material: Impermeability:	V4A IP69k
Display	Diagonal Resolution Touchscreen Background lighting	17.3" 1920 x 1080 P-CAP incl. Water detection LED / 400 cd/m²
CPU	Typ: Memory:	Intel® BayTrail Intel® Celeron Intel® Core i5 Intel® Core i7 up to 16 GB
Connections (depends on Board-Typ)	Ethernet: USB-Ports:	2 x 100/1000 Mbit up to 4 x USB 2.0 up to 2 x USB 3.0
Expansion cards	Expansion-Slots:	1 x Display Port 1 x SD-Card Slot 2 x Serial Port (RS-232/422/485)
Integrated RFID Reader		13,56 MHz Reader (Legic, Mifare) 125 kHz Reader (HITAG / em)
Microcontroller	Monitoring functions: Control tasks:	Power supply and temperatures Power management Touch controller Backlight
Environmental conditions	Ambient temperature Storage temperature Max. rel. humidity	-5°C (optional: -28°C) bis + 50°C -40°C to + 80°C 95 % at 40°C non-condensing
Power supply		12 / 24 V I 230 VAC
Operating System		Microsoft Windows® 10/8/7 Linux and Android

Technical information

CR24 - 24" Hygienic HMI



	CR24		
Dimensions	in mm (HxWxD) Weight (depending configuration)	400 x 597 x 69 mm 8,3 kg	
Housing	Material: Impermeability:	V4A IP69k	
Display	Diagonal Resolution Touchscreen Background lighting	23.8" 1920 x 1080 P-CAP incl. Water detection LED / 400 cd/m²	
CPU	Typ: Memory:	Intel® BayTrail Intel® Celeron Intel® Core i5 Intel® Core i7 up to 16 GB	
Connections (depends on Board-Typ)	Ethernet: USB-Ports:	2 x 100/1000 Mbit up to 4 x USB 2.0 up to 2 x USB 3.0	
Expansion cards	Expansion-Slots:	1 x Display Port 1 x SD-Card Slot 2 x Serial Port (RS-232/422/485)	
Integrated RFID Reader		13,56 MHz Reader (Legic, Mifare) 125 kHz Reader (HITAG / em)	
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Environmental conditions	Ambient temperature Storage temperature Max. rel. humidity	-5°C (optional: -28°C) bis + 50°C -40°C to + 80°C 95 % at 40°C non-condensing	
Power supply		12 / 24 V I 230 VAC	
Operating System		Microsoft Windows® 10/8/7 Linux and Android	



Maximum IT-Security

due to fully integrated RFID / NFC readers



- CEPAS

- Moneo- Sony FeliCa- HID iCLASS



















High connectivity

All clean room HMIs of the CR series have various integrated interfaces for easy integration into the existing IT infrastructure. Fully integrated WLAN / BT and integrated RFID / NFC technology also enable wireless connection.

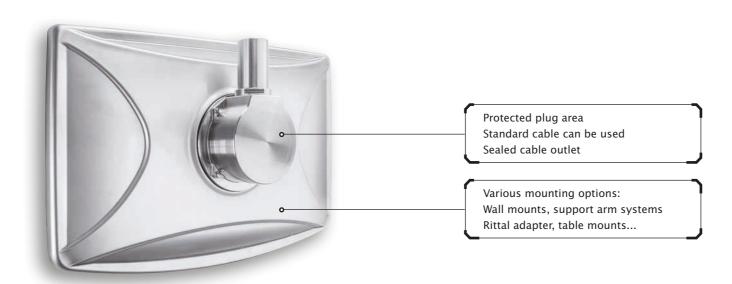
Operation-independent platform

The HMI of the CR series are completely independent of the operating system.



Support arms

universally applicable



Versatile and Operating System-Independent



Wall mounting

individually adaptable - with and without keyboard holder





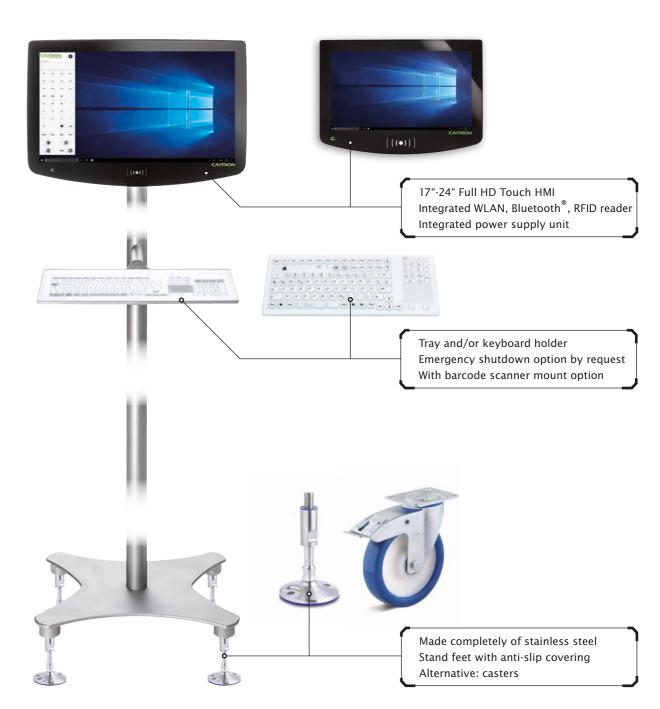
Laboratory workplace

including cable duct with GMP A / B certification



Modular Concept

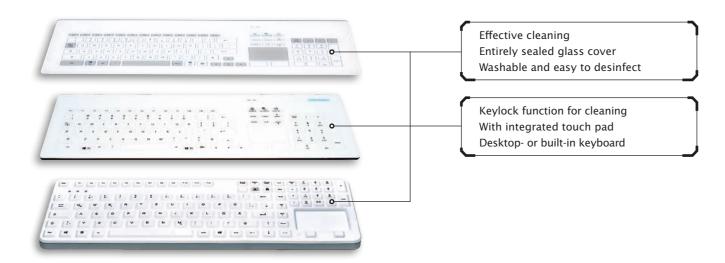
right up to customer-specific workstations





Additional equipment

Keyboards and mouse





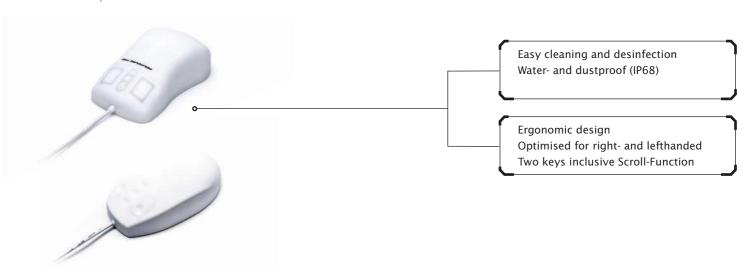




	CK4	CK4W	CleanType® Prime Touch+
Surface	0,8 mm glass	0,8 mm glass	Silicone
Enclosure	Plastic	Plastic	Silicone
Dimensions	470 x 167 x 25,4 mm	470 x 167 x 25,4 mm	365 x 134 x 14,2 mm
Impermeability	IP65 front	IP65 front	IP68
Key technology	capacitive	capacitive	capacitive
Number of keys	103	103	109
Cursor control	Touchpad	Touchpad	Touchpad
Interface	USB	USB (USB-Dongle)	USB

Additional equipment

Keyboards and Mouse









	InduMouse® Pro	TKH-Mouse Med	Cleankeys® CKM2W
Number of keys	5	5	2 plus scroll wheel
Enclosure	Silicone, Plastic	Silicone	Plastic - ABS
Scanning	Infrared	Laser	optical (LED)
Scrollfunction	3 scroll keys	click-scroll keys	Scroll wheel
Degree of protection	IP68	IP68	IP68 (enclosure)
Interface	USB	USB	USB
Working Temperature	0°C to +40 °C	-30°C to +70 °C	-15°C to +60°C
Dimensions	115 x 61 x 39 mm	105 x 60 x 37 mm	117 x 65 x 37,5 mm
Weight	150 g	170 g	Mouse 80 g – Station 140 g



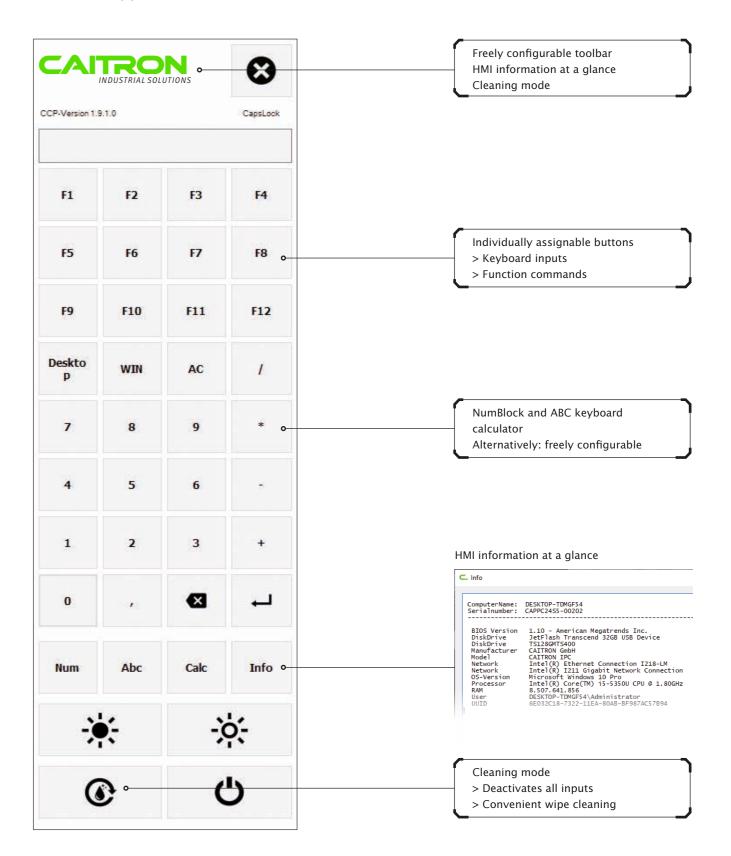
Additional equipment

Hygienic and detectable touch pen

Vulcanised EPDM tip (optional: other materials such as FFKM vailable on request) Stainless steel shaft High resistance to acids / alkalis Smooth surfaces for easy cleaning 0

Additional equipment

CAITRON App



Personal Support

Ranging from implementation to special adaptations

Individual Support
We support you in everything from implementation to individual reader adaptations.

Free Test Devices
Try out our products in advance – free and non-binding!

24/7 Service
We prefer direct contact, so we have no call center.
Regardless whether it's in the middle of the night, on the weekend, or on holidays – our service department will be glad to

Immediate Replacement
In emergencies we won't hold you up with formalities but will send you a replacement immediately.







INDUSTRIAL SOLUTIONS

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