Fraunhofer
TESTED® DEVICE
IPA
CAITRON GmbH
Cleanroom HMI CR-series
Report No. CA 2005-1157

RFID
Bluetooth
WiFi

CLEANROOM SOLUTIONS

Portfolio
Solutions for cleanroom applications

GMP A/B AND C/D HMI

HOLDING SYSTEMS & SUPPORT ARMS

CT13S9-GMP CLEANROOM TABLET

OPEN PLATFORM

Product overview

Individual clean room solutions and optional configurations

CT13S9-GMP Cleanroom Tablet   CR17 - 17" Cleanroom HMI   CR24 - 24" Cleanroom HMI

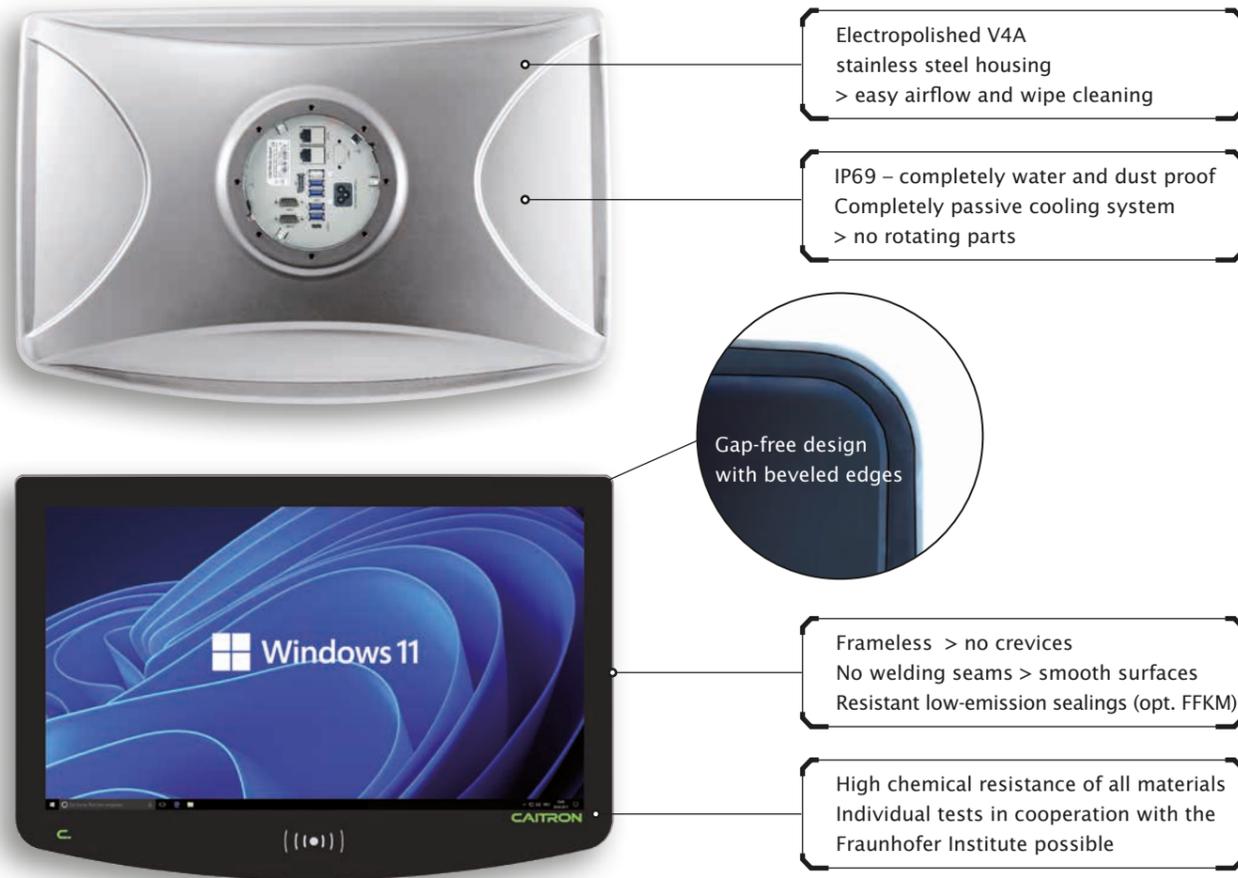**Universal arm systems**   **Laboratory workplace**   **Workstations**   **Input devices**

Wall mounting

Cleanroom Design
smooth surfaces and high chemical resistance

Electropolished V4A
stainless steel housing
> easy airflow and wipe cleaning

IP69 – completely water and dust proof
Completely passive cooling system
> no rotating parts

Gap-free design
with beveled edges

Frameless > no crevices
No welding seams > smooth surfaces
Resistant low-emission sealings (opt. FFKM)

High chemical resistance of all materials
Individual tests in cooperation with the
Fraunhofer Institute possible

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"

Multifunctional button
> CCP Software (shortcuts, keyboard ...)
> On/Off button

Multifunctional button

Full HD Display with P-CAP Multitouch
Operation with gloves
Individually adjustable touch

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.

CAITRON
INDUSTRIAL SOLUTIONS

Fraunhofer

T E S T E D® D E V I C E

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

IPA

Product series
Hygienic Design

DUPLICATE

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:

Suitability
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.

CA 2005-1157   Stuttgart, July 3, 2020
Report No. first document   Place, date of first document issued

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Report No. current document   Place, current date

on behalf of
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

Fraunhofer
IPA

Fraunhofer

T E S T E D® D E V I C E

CAITRON GmbH
CAITRON Surface Tablet CT12S
Report No. CA 2207-1332

IPA

Single product
Hygienic Design

Qualification Certificate

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

CAITRON GmbH
Weissensberg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number CA 2207-1332.

The CAITRON Surface Tablet CT12S is principally suitable for use
in hygienic areas up to the following GMP Class according to EU
GMP Annex 1:

Suitability
up to GMP Class A

However, this recommendation only pertains to the operating
utility when in a resting state.

This document only
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CA 2207-1332   Stuttgart, September 1, 2022
Report No. first document   Place, date of first document issued

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Report No. current document   Place, current date

on behalf of

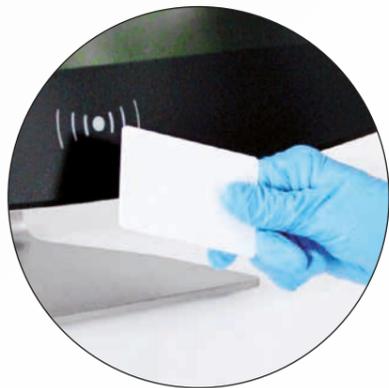Fraunhofer
IPA

Maximum IT-Security
due to fully integrated RFID / NFC readers

Identification with:
- Unique ID
- PC/SC Protocol / Windows-Logon
- PKI or Credential Provider

All interfaces are fully integrated in your operating system

Fully integrated RFID / NFC reader for Identification and control

125 kHz Technology

- HITAG 1, 2, S
- EM4100, 4102, 4200
- EM4050, 4150, 4450, 4550
- EM4305
- Cotag
- G-Prox, HID DuoProx II
- HID ISO Prox II
- HID Micro Prox
- T5557, T5567, T5577
- AWID

13.56 MHz Technology

- Legic
- Mifare
- NTAG2xx
- Calypso
- 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.

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)
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

Support arms

Various mounting options:
Wall mounts, support arm systems
Rittal adapter, table mounts...

Protected plug area
Standard cable can be used
Sealed cable outlet

Completely screwless
> easy and convenient cleaning
> no dead spaces

INTEGRATED SWIVEL	NO SCREWS	PROTECTED CONNECTORS	L- & U-PROFILES

Expansion option: keyboard holder
Standard: for glass wireless keyboard
Adaptation to other keyboards possible

Optional: barcode scanner holder
Standard: for Datalogic/Zebra scanners
Optional: right/left of the keyboard

Wall mounting

Various adaptation options for keyboard and barcode scanner holder

Laboratory workplace
including cable duct with GMP A / B certification

Modular Concept
right up to customer-specific workstations

Smooth rounded surfaces
EHEDG certified hygienic screws
EHEDG certified rotary handles

IP69 protection - antistatic cable routing
(individually adaptable)
Wireless connections thanks to Bluetooth

17"-24" Full HD Touch HMI
Integrated WLAN, Bluetooth®, RFID reader
Integrated power supply unit

Tray and/or keyboard holder
Emergency shutdown option by request
With barcode scanner mount option

Made completely of stainless steel
Stand feet with anti-slip covering
Alternative: casters

CT13S9 - GMP Cleanroom tablet
Based on the Microsoft® Surface Pro 9 Plus

- GMP A/B compliant design
- Low weight: 1.69 kg
- IP69 protected stainless steel housing
- Smooth surfaces
- High resistance to detergents

- Integrated Surface Power Connect
- Protected USB-C interface
- HD Cameras (front & back)
- Touch operable with gloves/stylus
- Optionally with carrying handle

| PROTECTED USB-C | GMP FUNCTION KEYS | SPC – CONNECTION | DOCKING STATION | CARRY HANDLE |

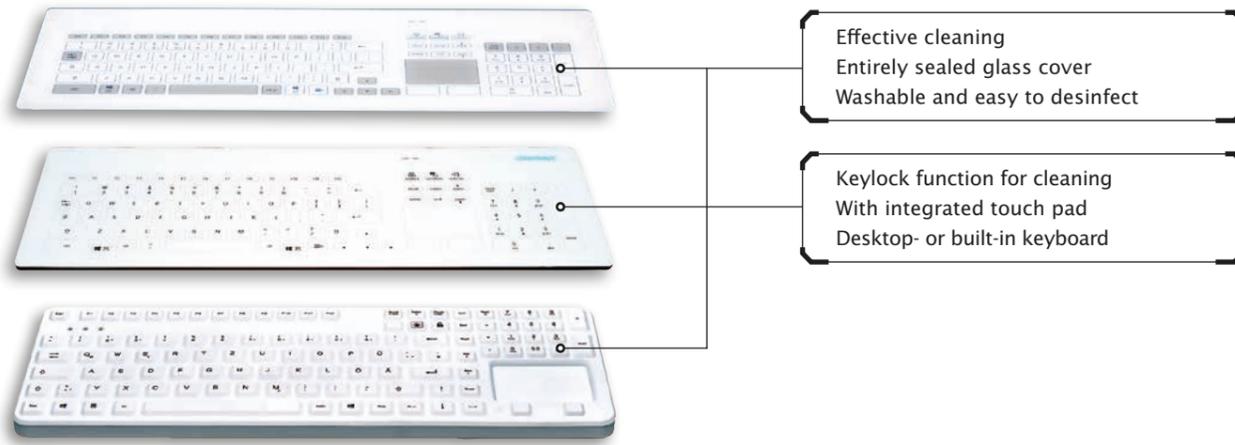| CT13S9 (Microsoft® Surface Pro 9 Plus) with Surface Power Connect		
Dimensions	Hight Width Depth Weight	222 mm 304 mm 13 mm 1.69 kg
Housing	Material Impermeability	Stainless steel IP69
Display	Diagonal Resolution Touch	13 inch (33 cm) 2880 x 1920 Pixel (267 PPI) – Front-Camera 1080p Full-HD-Video 10-Point-Multi-Touchscreen-Display
CPU	Type Memory	Intel Core i5 (12. Gen.) 1245U / 1.6 GHz 8 GB RAM
Hard drive		256 GB SSD
Interfaces		USB-C®
Cameras		10MP rear camera with autofocus for HD (1080p) video recording and 4K video
Operating system		Microsoft Windows 11 Pro

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

Effective cleaning
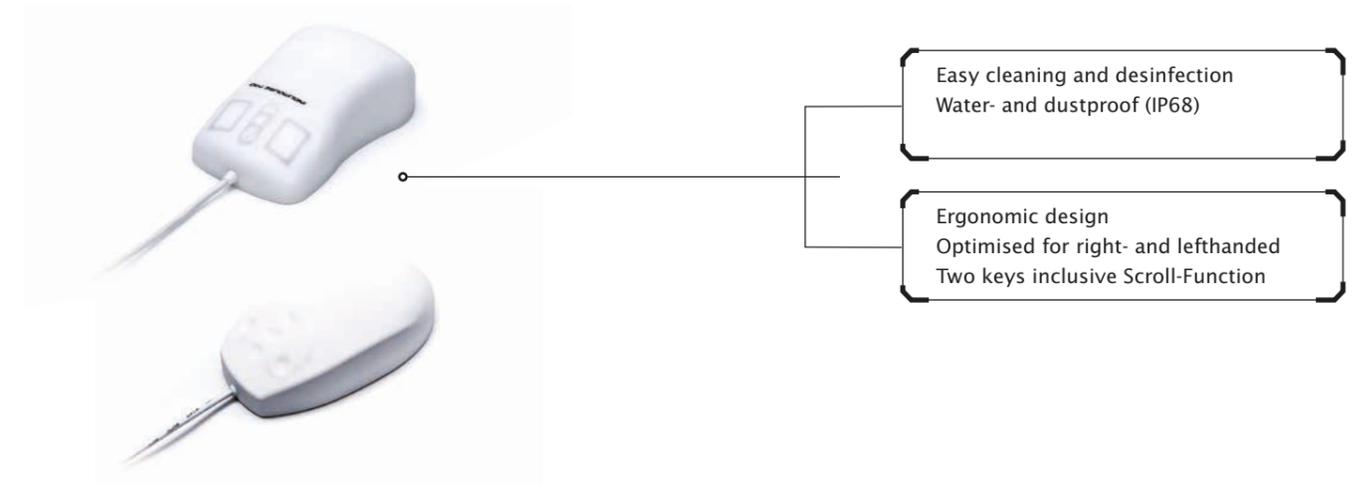Entirely sealed glass cover
Washable and easy to desinfect

Keylock function for cleaning
With integrated touch pad
Desktop- or built-in keyboard

	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

Easy cleaning and desinfection
Water- and dustproof (IP68)

Ergonomic design
Optimised for right- and lefthanded
Two keys inclusive Scroll-Function

	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

CAITRON App

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CCP-Version 1.9.1.2   CapsLock

F1	F2	F3	F4
F5	F6	F7	F8
F9	F10	F11	F12
Desktop	WIN	AC	/
7	8	9	*
4	5	6	-
1	2	3	+
0	,	⌫	↵
Num	Abc	Rechner	Info

Freely configurable toolbar
HMI information at a glance
Cleaning mode

Individually assignable buttons
> Keyboard inputs
> Function commands

NumBlock and ABC keyboard
calculator
Alternatively: freely configurable

HMI information at a glance

Info

```
ComputerName:  DESKTOP-TDMGF54
Serialnumber:  CAPPC24SS-00202
----------------------------------------------
BIOS Version   1.10 - American Megatrends Inc.
DiskDrive      JetFlash Transcend 32GB USB Device
DiskDrive      TS128GMTS400
Manufacturer   CAITRON GmbH
Model          CAITRON IPC
Network        Intel(R) Ethernet Connection I218-LM
Network        Intel(R) I211 Gigabit Network Connection
OS-Version     Microsoft Windows 10 Pro
Processor      Intel(R) Core(TM) i5-5350U CPU @ 1.80GHz
RAM            8.507.641.856
User           DESKTOP-TDMGF54\Administrator
UUID           6E032C18-7322-11EA-80AB-BF987AC57B94
```

Cleaning mode
> Deactivates all inputs
> Convenient wipe cleaning

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 help.

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

Authorised distributor

AGL Automation Ltd
+44 (0)1442 967 136

sales@aglautomation.com
www.aglautomation.com

AGL AUTOMATION LTD.

... at any time > www.caitron.de

CAITRON

INDUSTRIAL SOLUTIONS

CAITRON GmbH
Gewerbepark Edelweiss Nr. 4
D-88138 Weißensberg

fon: +49 (0) 80 39 - 900 900 0
fax: +49 (0) 80 39 - 900 900 9

web: www.caitron.de
email: info@caitron.de