

CAITRON Cleanroom Solutions

delivers cost-effective solutions for digitalisation in cleanrooms



CLEANROOM SOLUTIONS



Cleanroom Solutions

Solutions for digitalisation in cleanrooms

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GMP A/B AND C/D HMI



CT13-GMP CLEANROOM TABLET



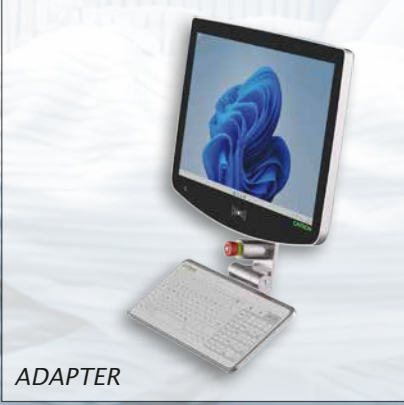
HOLDING SYSTEMS/SUPPORT ARMS



WORKSTATION-MOBILE UNITS



LABORATORY WORKPLACE



ADAPTER



KEYBOARDS/TOUCH-PEN

Cleanroom HMIs

Certification up to GMP Class A/B



Fraunhofer
**TESTED®
DEVICE**
CAITRON GmbH
Cleanroom HMI series
Report No. CA 2505-1630

Product series
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 2505-1630.

The Cleanroom HMI series (color: black/stainless steel) 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. 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 current
date the 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.

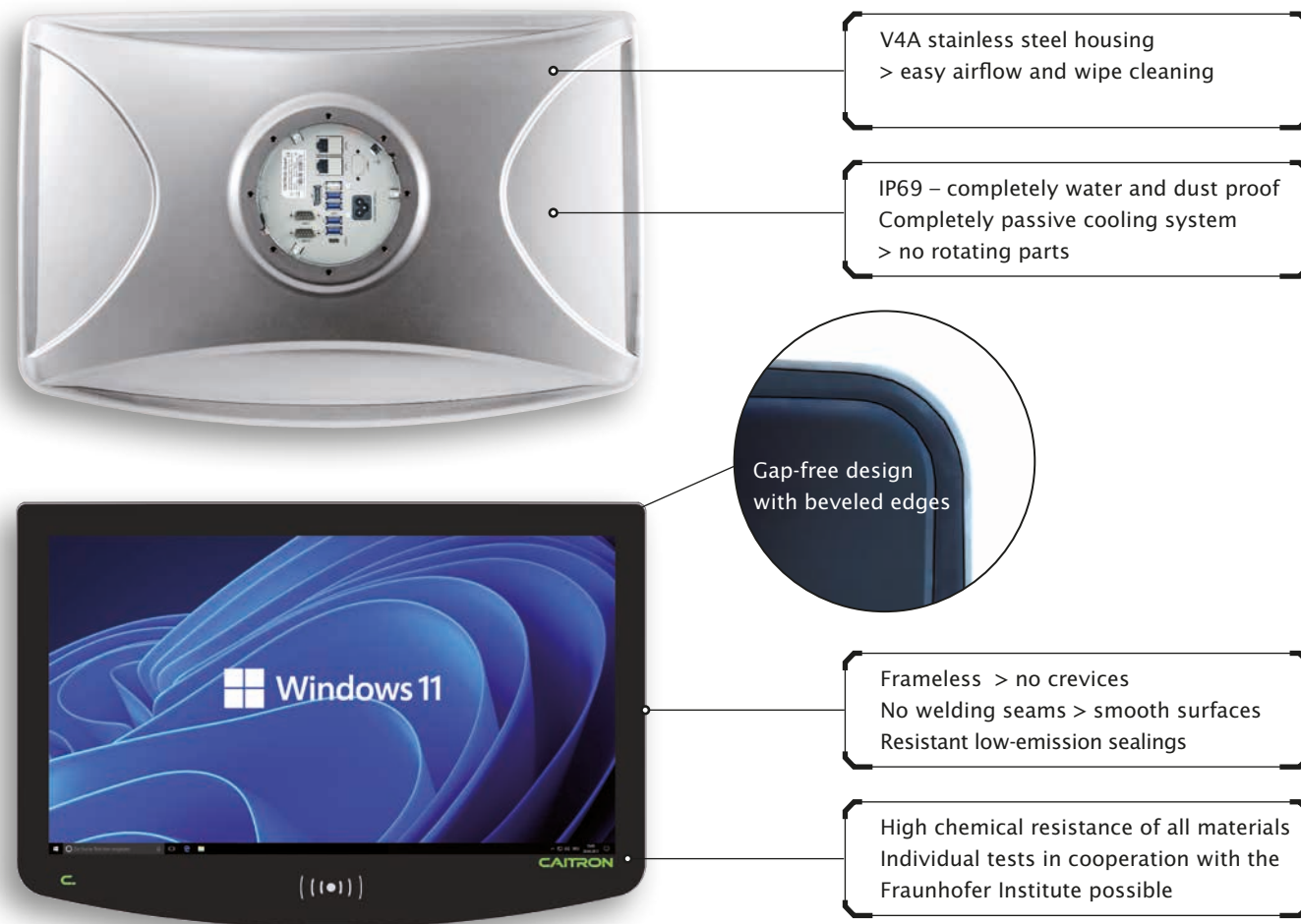
CA 2005-1157	Stuttgart, July 3, 2020
Report No. first document	Place, date of first document issued
CA 2505-1630	Stuttgart, August 15, 2025
Report No. current document	Place, current date

on behalf of
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification



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 Fraunhofer 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.

User authentication

due to fully integrated RFID / NFC readers



With fully integrated and multi-functional RFID reader compatible with virtually all RFID standards, protocols and interfaces.

Can be configured as a USB keyboard emulation (HID), a USB virtual COM port or as CCID / PC/SC 2.01. Enables the reading and writing of virtually all HF and LF tags.

Open platform

versatile and operating system-independent



Windows 11



ubuntu



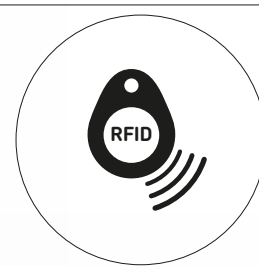
READER / CHIP



READER / CARD



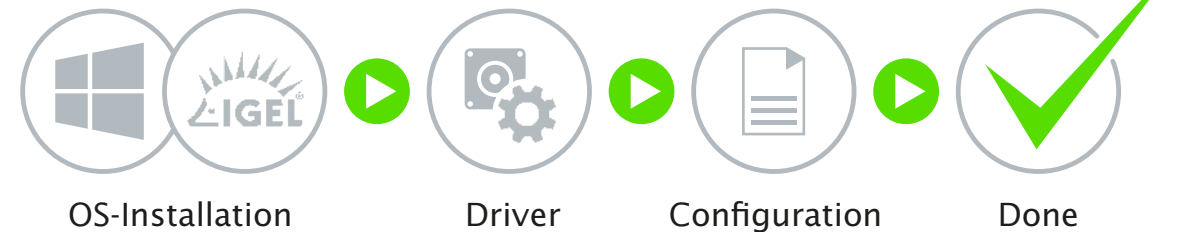
READER / WATCH



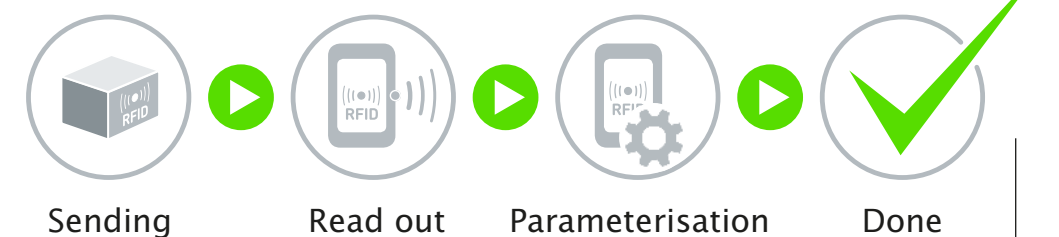
INTEGRATED RFID

Your system. Your requirements. Our solution.

Customised and pre-configured – Ready for use – Efficient



Customisation of the RFID reader's settings



Technical information

CR17 - 17" Hygienic HMI



	CR17	Intel® BayTrail Board Version
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 Celeron Intel® Core i5/i7 up to 32 GB
Connections (depends on Board-Typ)	Ethernet: USB-Ports:	2 x 100/1000 Mbit 1 x USB 2.0 – 4 x USB 3.0 1 x USB-C
Expansion cards	Expansion-Slots:	1 x Display Port 2 x Serial Port (RS-232/422/485)
Integrated RFID Reader		almost all HF and LF Tags
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® 11 Linux and IGEL

Technical information

CR24 - 24" Hygienic HMI



	CR24	Intel® BayTrail Board Version
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 Celeron Intel® Core i5/i7 up to 32 GB
Connections (depends on Board-Typ)	Ethernet: USB-Ports:	2 x 100/1000 Mbit 1 x USB 2.0 – 4 x USB 3.0 1 x USB-C
Expansion cards	Expansion-Slots:	1 x Display Port 2 x Serial Port (RS-232/422/485)
Integrated RFID Reader		almost all HF and LF Tags
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® 11 Linux and IGEL

GMP A/B support arm systems

For versatile use in cleanrooms



Fraunhofer
TESTED[®]
DEVICE
CAITRON GmbH
HSH - support arm system
Report No. CA 2505-1630

Product series
Hygienic Design

Qualification Certificate

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bearing the report number CA 2505-1630.

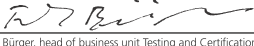
The series HSH support arm system (material: stainless steel) is principally suitable for use in hygienic areas up to the following GMP Class according to EU GMP Annex 1:

Suitability
up to GMP Class A

However, this recommendation only pertains to the operating utility when in a resting state. 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 2505-1630 Report No. first document	Stuttgart, August 15, 2025 Place, date of first document issued
--- Report No. current document	--- Place, current date
on behalf of  Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	



Support arms

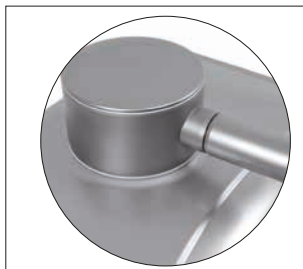
universally applicable



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



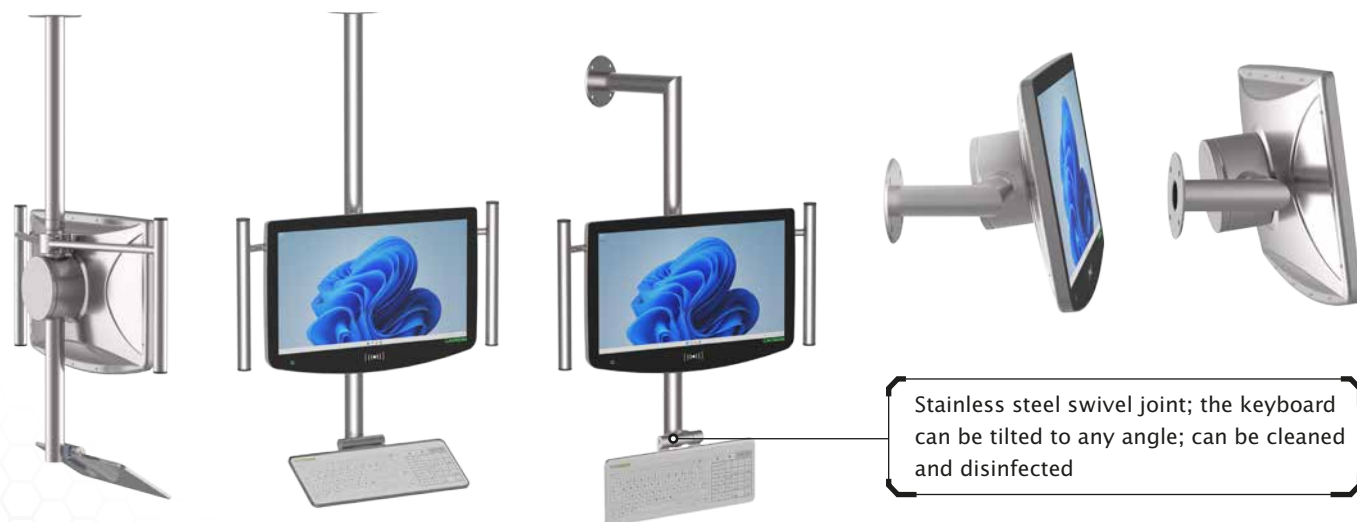
NO SCREWS



PROTECTED CONNECTORS



VARIOUS PROFILES



Stainless steel swivel joint; the keyboard
can be tilted to any angle; can be cleaned
and disinfected



Examples of use: All keypads can be operated easily whilst wearing gloves and can be cleaned or disinfected.



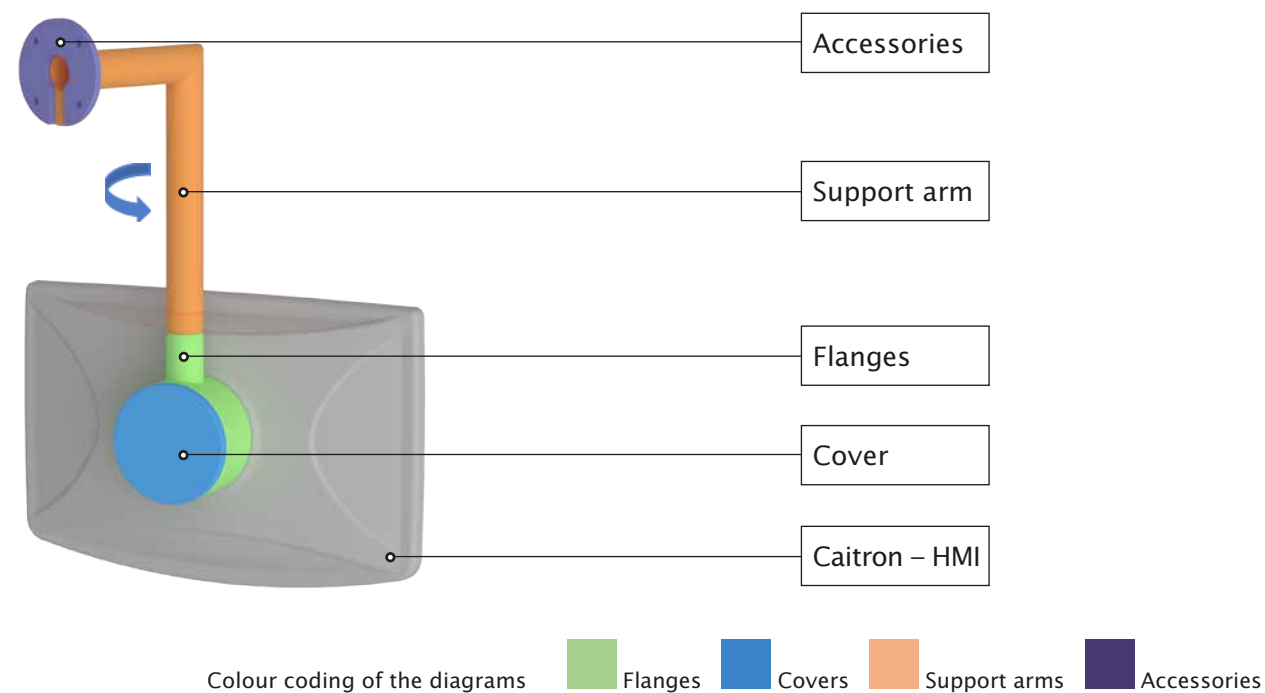
Support arms

universally applicable

The HSH modular support arm system has been specially developed for hygiene-sensitive areas and cleanrooms. Depending on the components selected, the support arm system has no external screws, making it easy to wipe clean. Furthermore, all joints are designed in such a way that no recesses or crevices are formed.

Structure of the support arm system

The HSH support arm system consists of individual system components that can be combined in almost any way:



The central component is the flange (green). This is connected to the support arm (orange) via a swivel joint. It is mounted on the wall using four screws. The cables must be routed away from the wall. Optionally, the cables can be routed out in front of the wall using a spacer (purple). The cover (blue) seals off the connection area. Connections can be easily modified by removing the cover. Quick access to the IT system via a USB stick is also possible by removing the cover.

Wall mounting

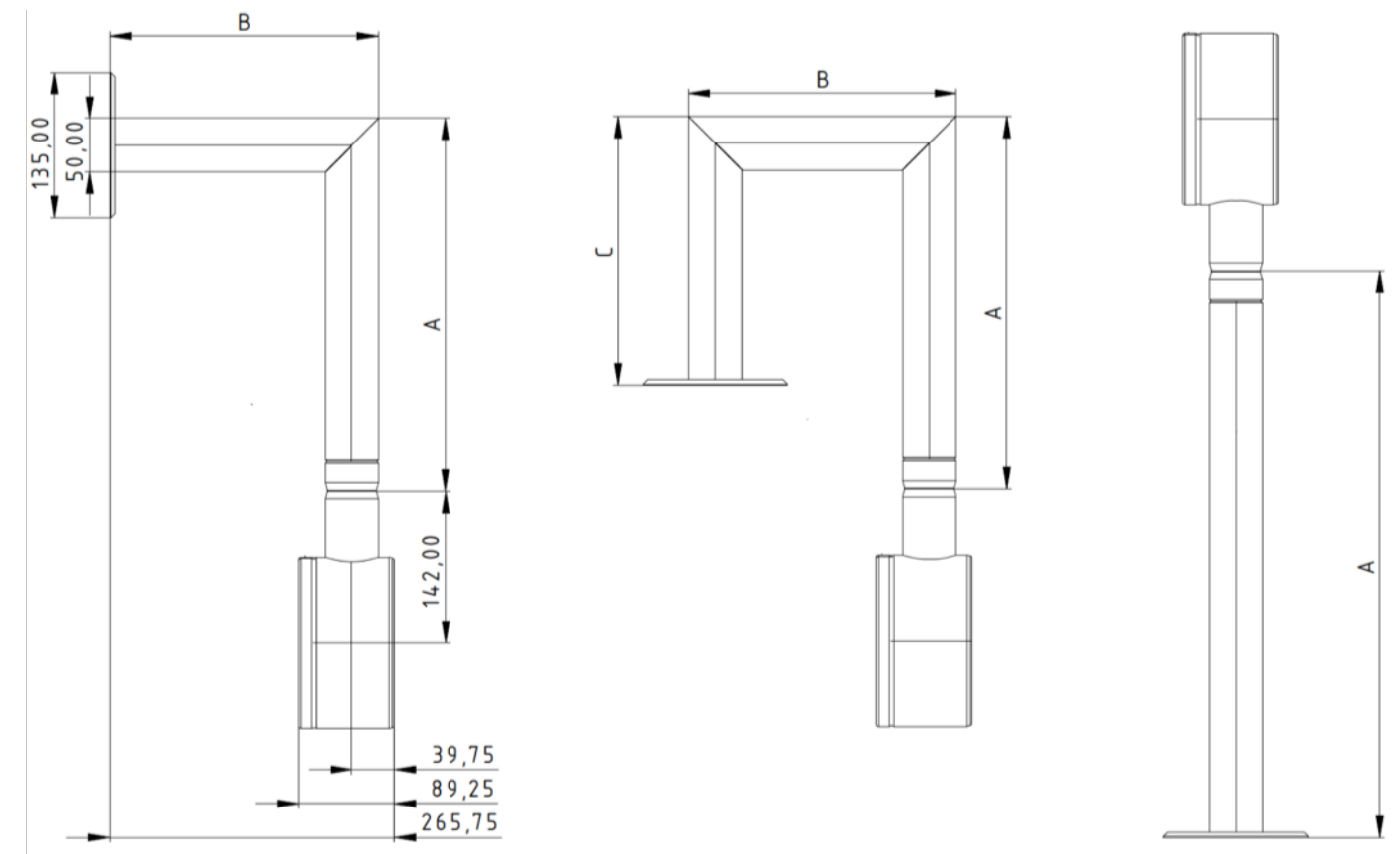
individually adaptable - with and without keyboard holder

The flange can be fitted to the HMI at 90° intervals. This allows the HMI to be suspended from the ceiling or mounted on a tripod, for example.



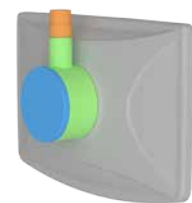
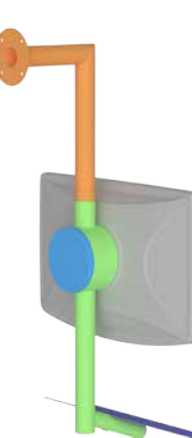
Dimensions of the support arm system:

The dimensions of the entire support arm system are derived from the dimensions of the flange and the relevant bracket, the dimensions of which are specified for each item as follows: Example: L-bracket (A348, B251)



HSH flanges

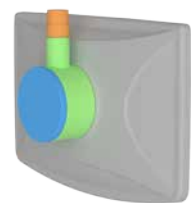
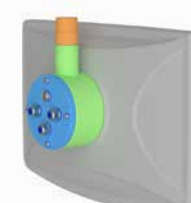
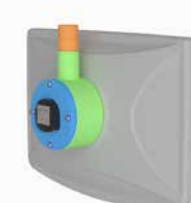
in various designs

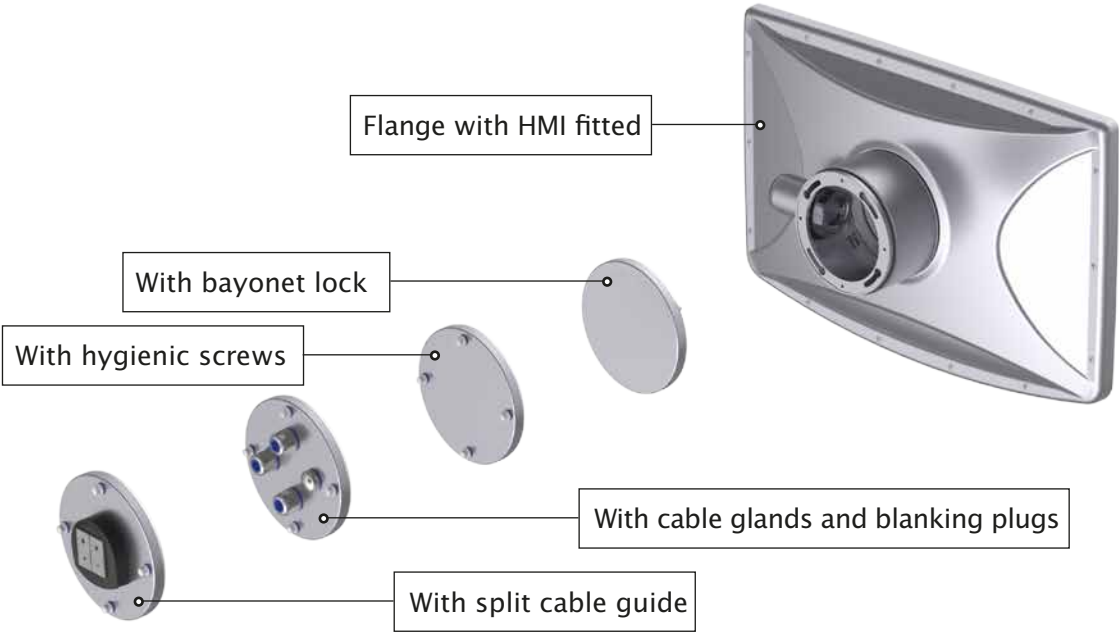
Featured image	Item number	Product name	Example
	101216	HSH – Standard flange - Central connecting piece between the HMI and the support arm - The flange outlet to the bracket can be mounted in four positions (0°, 90°, 180°, 270°) relative to the HMI	
	101217	HSH – Flange with three side holes Holes (M12) for waterproof round USB connectors Not included	
	101224	HSH – Flange with adapter for keyboard holder - See below for compatible keyboard holders - Distance from keyboard rest to centre of flange = 430 mm - Cable routing through the tube	

Colour coding of the diagrams  Flanges  Covers  Support arms  Accessories

Covers

HSH with various connections – Different covers for the flanges

Featured image	Item number	Product name	Example
	101218	HSH – Cover with bayonet lock (screwless) IP65 The cover is fitted and secured by turning it 20° Note: The 101259 band spanner is recommended for installation	
	101225	HSH – Cover with 4 x M5 hygienic screws (IP69) Secured with 4 x M5 hygienic screws	
	101226	HSH – Cover with 4 x M20 cable glands - Secured with 4 x M5 hygienic screws - Four M20 cable glands made of V2A Please note: When ordering, please specify the required number of cable glands and blanking plugs	
	101526	Cover with split cable guide	



Support arms

in various designs

Other accessories

HSH with various options

Featured image	Item number	Product name	Example
	101227	HSH – I-bracket (A528) For use, for example, on a trolley	
	101228	HSH – L-bracket (A348, B251)	
	101219	HSH – Short L-bracket (A85, B176) Suitable for use as a compact wall bracket	
	101359	HSH – U-bracket (A346, B500, C251)	
	101360	HSH – U-bracket with two swivel joints (A346, B500, C277)	

Colour coding of the diagrams Flanges Covers Support arms Accessories

Featured image	Item number	Product name	Example
	101247	HSH – Keyboard holder with storage shelf and upstand	
	101337	HSH – Keyboard holder with scanner shelf	
	101221	HSH – Swivel joint connector - Required for Rittal tube connectors (101222) - Suitable for welding onto other systems	
	101222	HSH – Rittal tube connector - Connects the swivel joint connector (101221) to a standard Rittal tube (48.3 mm) - Fastened with Allen pin screws with cover caps	
	101220	HSH – Spacer - For a cable outlet in front of the wall - Exit width: 25 mm - Height: 10 mm	
	101374	HSH – Wall bracket Wall bracket for mounting the support arm systems	
	101368	HSH – Impact protection with handholds for CS17	
	101234	HSH – Impact protection with handholds for CS24	
	101441	SET: Scanner holder, left/right - The scanner holder can be mounted on the left or right of the HMI (Cx17/Cx24) - Please specify the position (left/right) when ordering	

Colour coding of the diagrams Flanges Covers Support arms Accessories

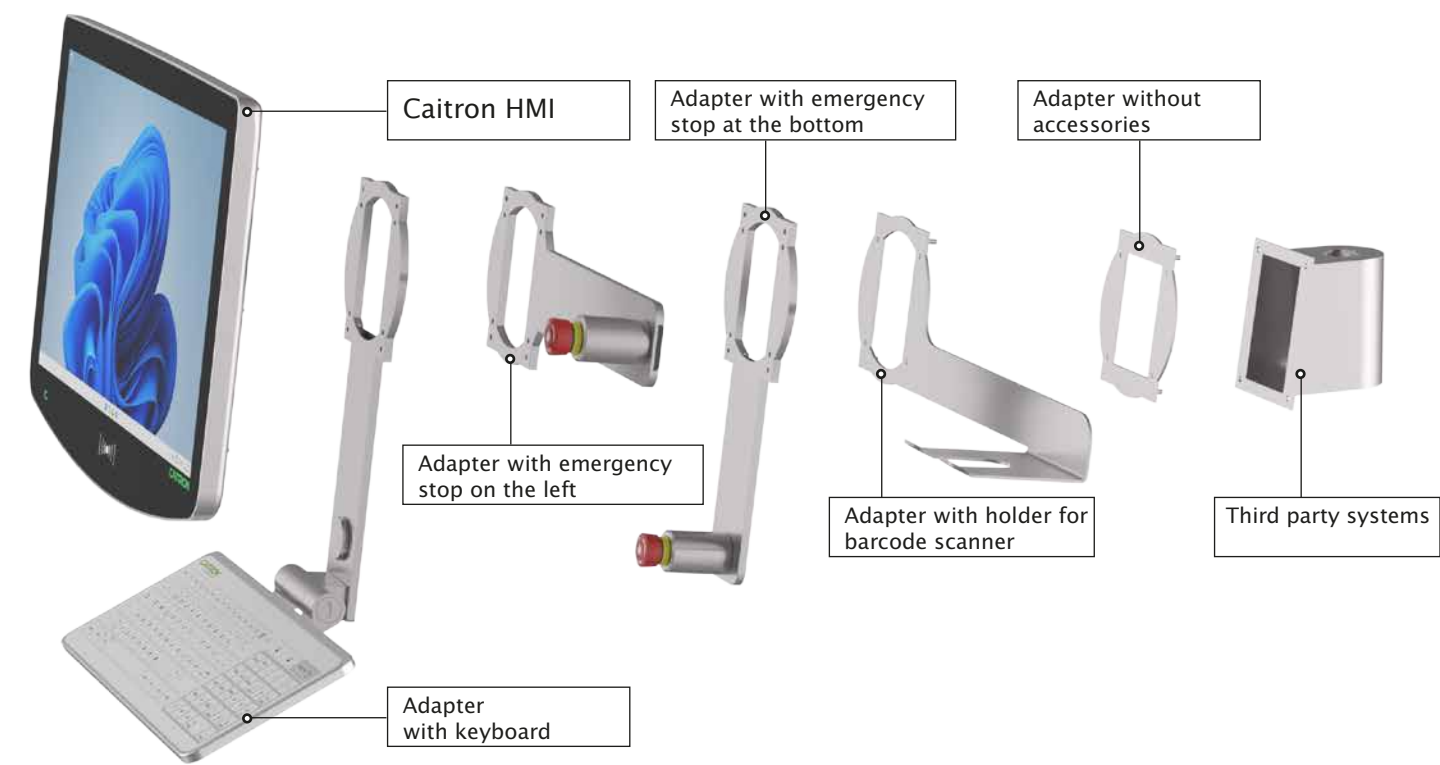
Adaptations for existing installations

flexible solutions for existing installations



Adapter

for existing mounts



Adaptation to third-party systems:
CAITRON's specially developed adapter system makes it possible to continue using existing support arms easily and cost-effectively. Thanks to the different designs of the adapters, it is also possible to replicate existing set-ups. Installation is very straightforward and the spatial footprint is impressively compact.

Adapter

for existing mounts

Featured image	Item number	Product name	Example
	101346	SET: SYS_ADAP_HMI - For mounting an HMI on an existing bracket - Includes seals and fixing materials	
	101437	SET: SYS_ADAP_HMI-TAS-opt-NOT - Includes seals and fixing materials - Glass keypad encased in stainless steel - Cable routing in the hinge - Optional with emergency stop	
	101439	Sleeve for emergency stop	
	101440	For fitting an emergency stop switch with two normally closed contacts	
	101438	SYS_ADAP_HMI-NOT-U - Adapter with a downward-facing arm for mounting an emergency stop - Includes seals and mounting hardware - Please order the sleeve and emergency stop separately	
	101425	SET: SYS_ADAP_HMI-NOT-side (right/left) - Adapter with a side-mounted arm for fitting an emergency stop switch - The adapter can be rotated by 180°, allowing for installation on the left or right - Includes seals and fixing materials - Please order sleeve & emergency stop switch separately	
	101403	SET: SYS_ADAP_HMI-opt-NOT-Angle - Includes seals and fixing materials - For use with HSH keypad holders 101247 and 101337 - Optional with emergency stop	
	101384	SET: SYS_ADAP_HMI-Barcodescanner-Halter-RE Includes seals and fixing materials	

Laboratory workplace

suitable for a wide range of applications in cleanrooms up to GMP A/B



Laboratory workplace

including cable duct with GMP A/B certification



EASY-TO-CLEAN

SCREW-FREE

CABLE MANAGEMENT

TILT ADJUSTMENT



Featured image	Item number	Product name	Example
	101216	HSB – Standard Flange - Central connecting piece between HMI and support arm - The flange connection to the bracket can be mounted in four positions (0°, 90°, 180°, 270°) relative to the HMI	
	101393	HSB – Laboratory workstation Table-top mounting	
	101218	HSB – Cover with bayonet lock (screwless) IP65 The cover is fitted and secured with a 20° turn Note: The 101259 band spanner is recommended for assembly	
	101225	HSB – Cover with 4 x M5 hygienic screws (IP69) Fastened with 4 x M5 hygienic screws	

Colour coding of the diagrams Flanges Covers Support arms Accessories

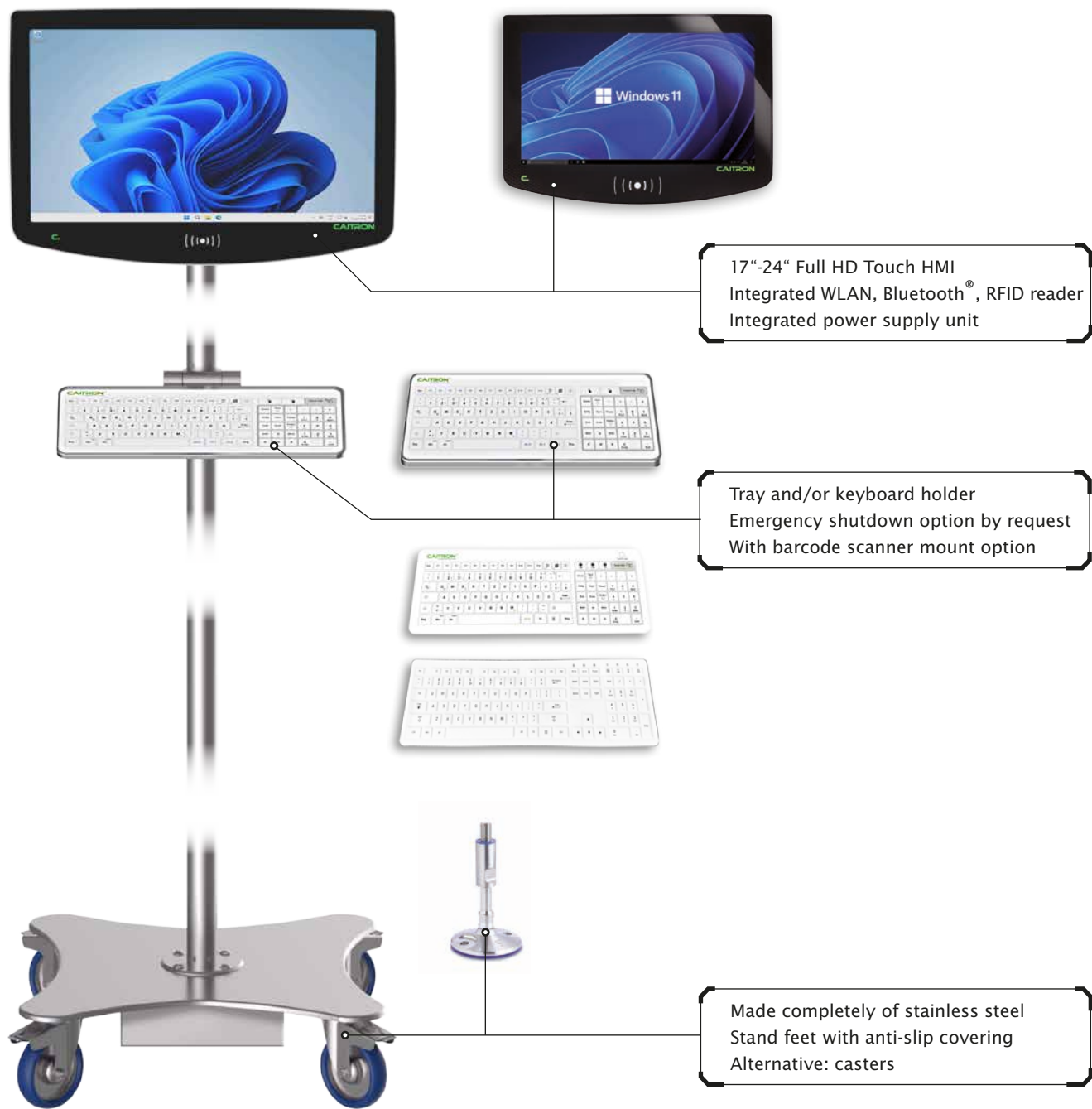
Workstations

modular design and customisation



Modular Concept

right up to customer-specific workstations



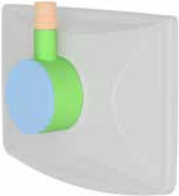
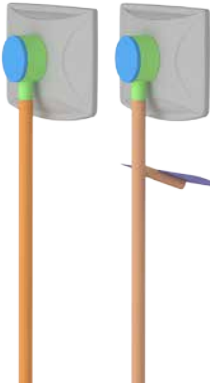
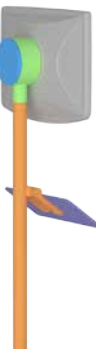
Workstation

Example of use in a cleanroom



Workstation

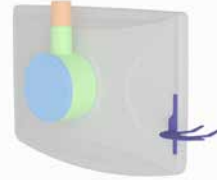
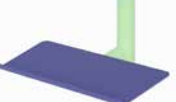
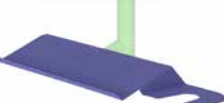
HSH with various connections

Featured image	Item number	Product name	Example
	101216	HSH – Standard flange - Central connecting piece between the HMI and the support arm - The flange outlet to the bracket can be mounted in four positions (0°, 90°, 180°, 270°) relative to the HMI	
	101218	HSH – Cover with bayonet lock (screwless) IP65 The cover is placed on top and secured with a 20° turn Note: The 101259 band spanner is recommended for assembly	
	101225	HSH – Cover with 4 x M5 hygienic screws (IP69) Secured with 4 x M5 hygienic screws	
	101238	HSH – Standpipe (A1228) - For mounting on the platform - Can also be used without the platform	
	101314	HSH – Standpipe (A1228) with adapter - For mounting on the platform - With adapter for mounting e.g. a keyboard holder - Can also be used without the platform	
	101527	HSH – Standpipe with join For mounting the V2A keyboard	

Colour coding of the diagrams  Flanges  Covers  Support arms  Accessories

Workstation

HSH with various connections

Featured image	Item number	Product name	Example
	101231	HSH – Workstation platform - Serves as a base for various configurations - Various castors and levelling feet can be fitted as an option (see below)	
	101241	HSH – Hygienic stainless steel swivel castors (4 pieces) - Polyurethane wheel, ball bearing, approx. 95° Shore A - Screws included - Ø 125 mm	
	101245	HSH – Standard stainless steel levelling feet (4 pieces) Includes fitting kit	
	101285	HSH – Battery system for workstation - LiFePo lithium battery 330 Wh - Average HMI runtime = 8 hours Depending on usage and accessories, this may range from 6 to 16 hours. Fit the screws to the platform using threadlocker	
	101293	HSH – External charger for workstation battery pack	
	101441	SET: Scanner holder (left/right) - The scanner holder can be fitted on the left or right of the HMI (Cx17/Cx24) - Please specify the position (left/right) when ordering	
	101247	HSH – Keyboard holder with storage surface & raised edge	
	101337	HSH – Keyboard holder with storage for scanner	

Colour coding of the diagrams  Flanges  Covers  Support arms  Accessories

CT13S11- GMP Cleanroom tablet

Based on the Microsoft[®] Surface Pro for Business 11th edition



valid until: August 15, 2030

Fraunhofer

TESTED[®] DEVICE

CAITRON GmbH
Surface Tablet CT13
Report No. CA 2505-1630

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 2505-1630.

The CAITRON Surface Tablet CT13 (material: stainless steel) 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. An overall assessment can only be made after its installation in the production line.

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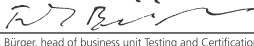
Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

CA 2505-1630
Report No. first document

Stuttgart, August 15, 2025
Place, date of first document issued

Report No. current document

Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification





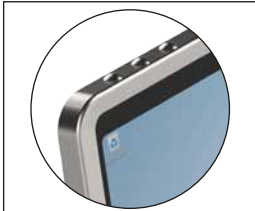
CT13S11- GMP Cleanroom tablet

Based on the Microsoft® Surface Pro for Business 11th edition

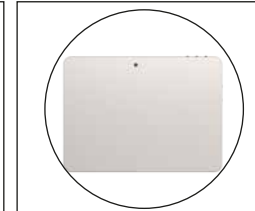


- GMP A/B compliant design
- Low weight: 1.69 kg
- IP69 protected stainless steel housing
- Smooth surfaces
- High resistance to detergents

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



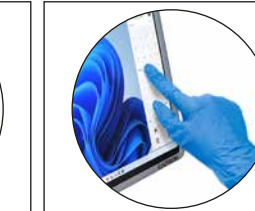
GMP BUTTONS



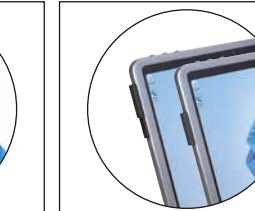
SMOOTH SURFACES



EASY-TO-CLEAN



WITH GLOVES



SHIELDED USB-C

CT13S11 – GMP cleanroom tablet

Charging station and various mounting options



Charging cradles in table-top and wall-mounted versions. Easy to clean thanks to the integrated power supply. Infinitely adjustable angle for convenient charging via charging contacts.



DOCKING STATION



BUILT-IN POWER SUPPLY



WALL-MOUNTED

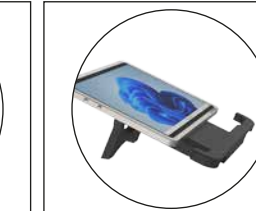


TABLE VERSION



CHARGING CONTACTS

The tablet is available with a charging cradle in both a desktop and wall-mounted version

CT13S11 Microsoft® Surface Pro for business 11th edition		
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), Aspect ratio 3:2, 120 Hz 10-Point-Multitouch, adaptive colour management
CPU	Type Memory	Intel Core Ultra 5 (z. B. 236V, 238V) or Intel Core Ultra 7 (e. g. 266V, 268V) 16 GB or 32 GB LPDDR5x RAM
Hard drive		Gen 4-SSD with 256 GB, 512 GB or 1 TB
Graphics		Intel Arc Graphics (Intel-Models)
Interfaces		2x USB 4 (Typ-C), 1x Surface Connection
Cameras		10-MP-Back camera with AF for HD-Video (1080p) and 4K-Video
Wireless Standards		Wi-Fi 7, Bluetooth
Operating system		Microsoft Windows 11 Pro



Examples of use

CT13S11 – Special version with IP68

Fully submersible and suitable for H₂O₂ sterilisation



The special version of the tablet with IP68 protection is submersible, offers high chemical resistance, can be operated whilst wearing gloves and is easy to clean. The USB-C port is specially protected and has an IP68 rating.



CT13S11 – GMP cleanroom tablet

Optional add-ons – RFID reader and handle



Optional RFID reader:
Fully integrated, multi-functional RFID reader compatible with almost all RFID standards, protocols and interfaces. Configurable as CCID, HID or PC/SC, it enables the reading and writing of almost all HF and LF tags.



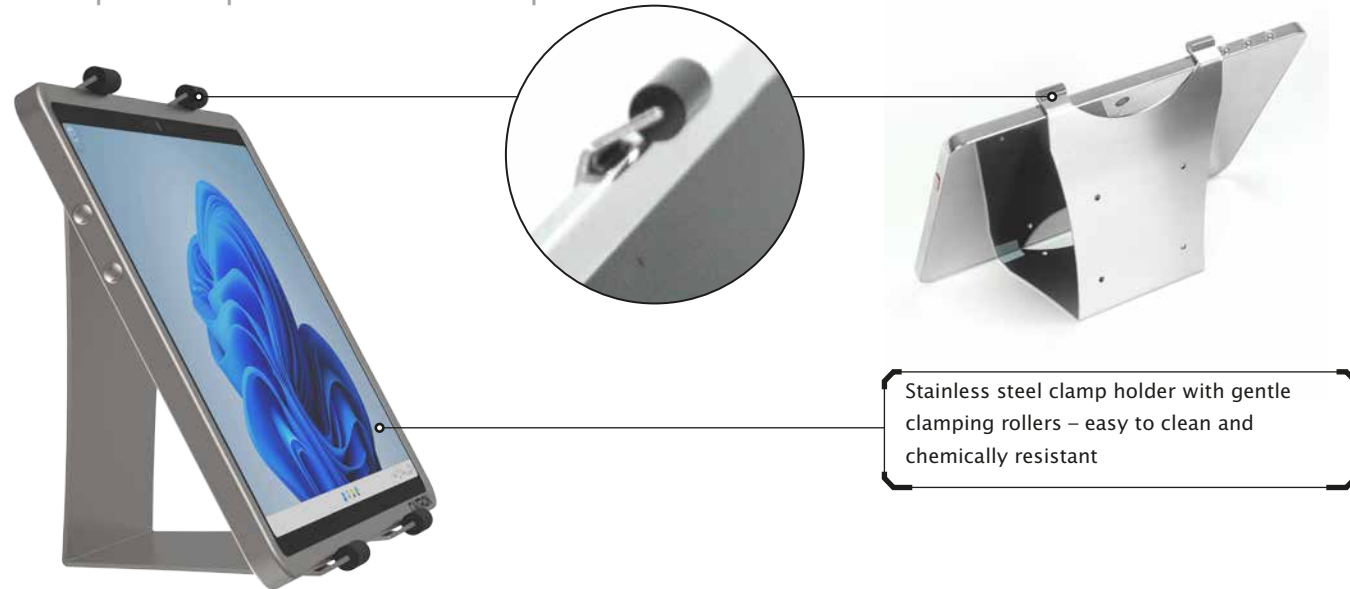
Examples of use: The tablet can be operated easily whilst wearing gloves and can be cleaned or disinfected.

Optional handle available for the tablet



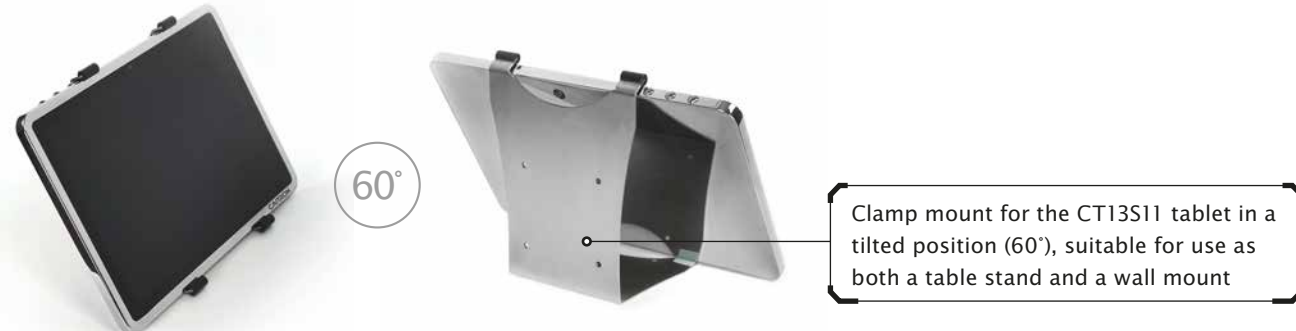
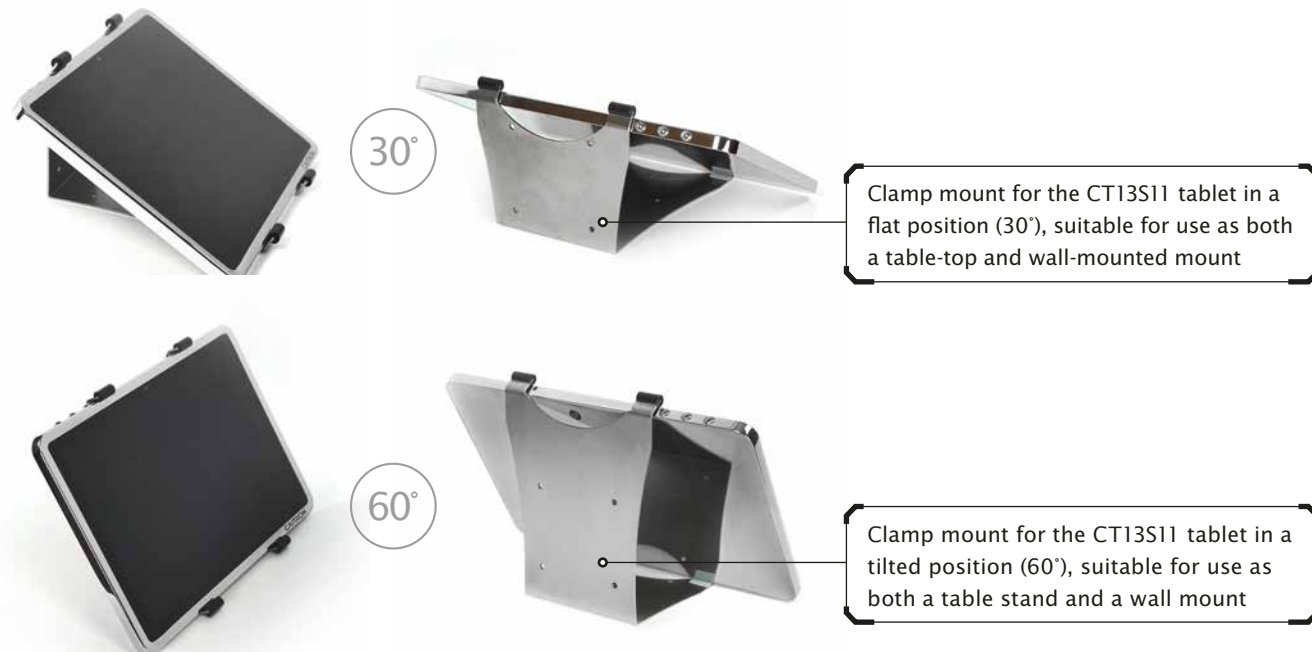
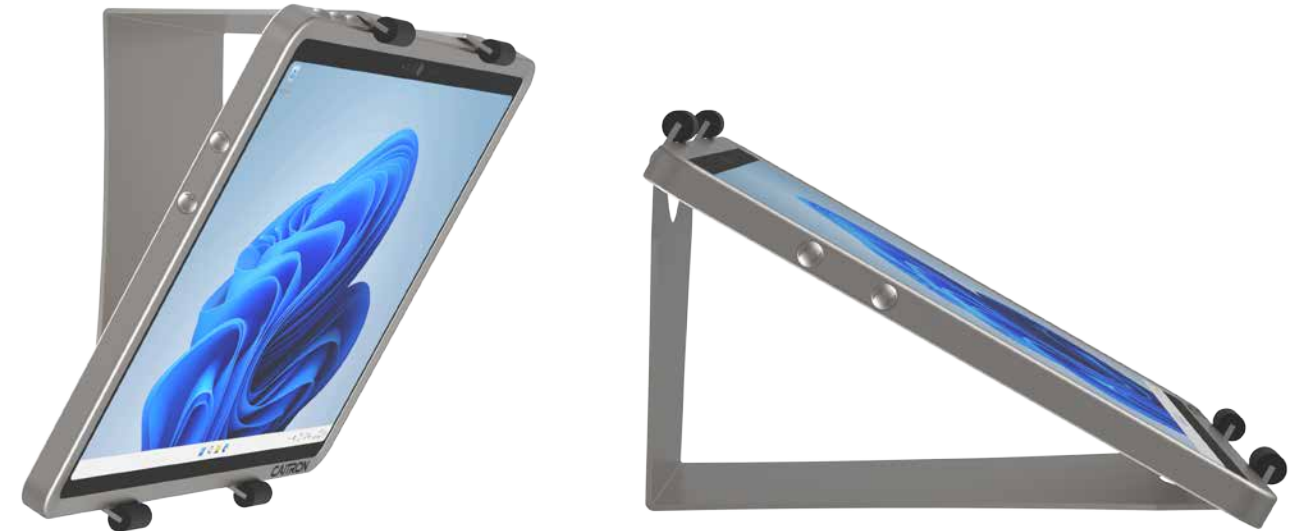
CT13S11 – Accessories for the tablet

The simple clamp mount for tabletop use



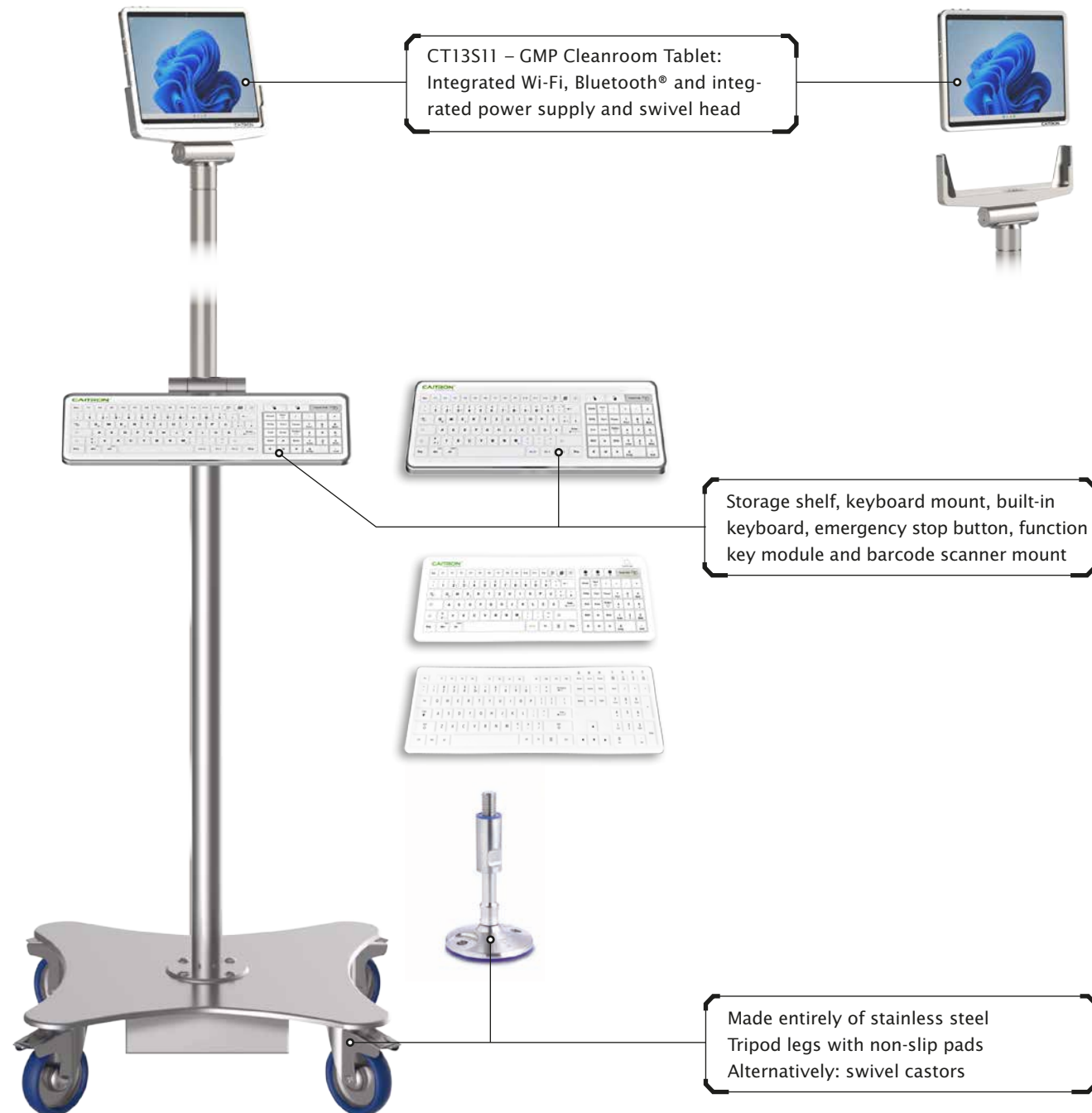
CT13S11 – Accessories for the tablet

The simple clamp mount in a wall-mounted version



Example of use

CT13S11 – Workstation accessories



Information on feet and castors, including item numbers, can be found on the Workstation page

CT13S11 – Stainless steel wall bracket

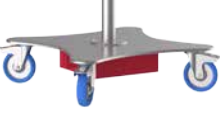


Example of use: Wall bracket with swivel joint, easy to clean, even with disinfectant.

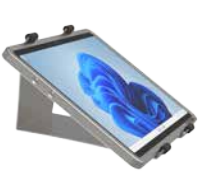
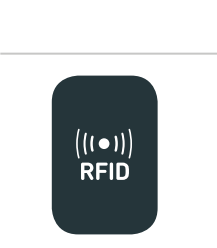
CT13S11 – Workstation accessories

CT13S11 – GMP cleanroom tablet

The accessories ...

Featured image	Item number	Product name	Example
	101231	HSH – Workstation platform - Serves as a base for various configurations - Various castors and levelling feet can be fitted as an option (see below).	
	101241	HSH – Hygienic stainless steel swivel castors (4 pieces) - Polyurethane wheel, ball bearing, approx. 95° Shore A - Screws included - Ø 125 mm	
	101245	HSH – Standard stainless steel levelling feet (4 pieces) Includes fitting kit	
	101530	HSH – Electronics box with 230V connection For housing the power supplies	
	101529	HSH – Support tube with tablet holder - For mounting on the platform- - For mounting on the floor - Height from the floor (platform) to the centre of the tablet = 1,238 mm	
	101516	HSH – Support tube with tablet holder and side adapter- - Adapter for mounting various scanner charging stations - For mounting on the platform - For mounting on the floor - Height from floor (platform) to centre of tablet = 1,238 mm	
	101527	HSH-Support tube with tablet holder and articulated adapter - For mounting the V2A keyboard on the joint - For mounting on the platform - For mounting on the floor - Height from floor (platform) to centre of tablet = 1,238 mm	

Colour coding of the diagrams  Flanges  Covers  Support arms  Accessories

Featured image	Item number	Product name	Example
	101534	Stainless steel clamp mount for CT13	
	101380	Desktop charging station CT13 with integrated power supply	
	101371	CT13 wall-mounted charging station with integrated power supply	
	101533	HSH – V2A wall mount for CT13, tiltable	
	101263	Handle for CT13S cleanroom tablet – fitted	
	101265	RFID reader for CT13 cleanroom tablet Fully integrated into the tablet	

Colour coding of the diagrams  Flanges  Covers  Support arms  Accessories

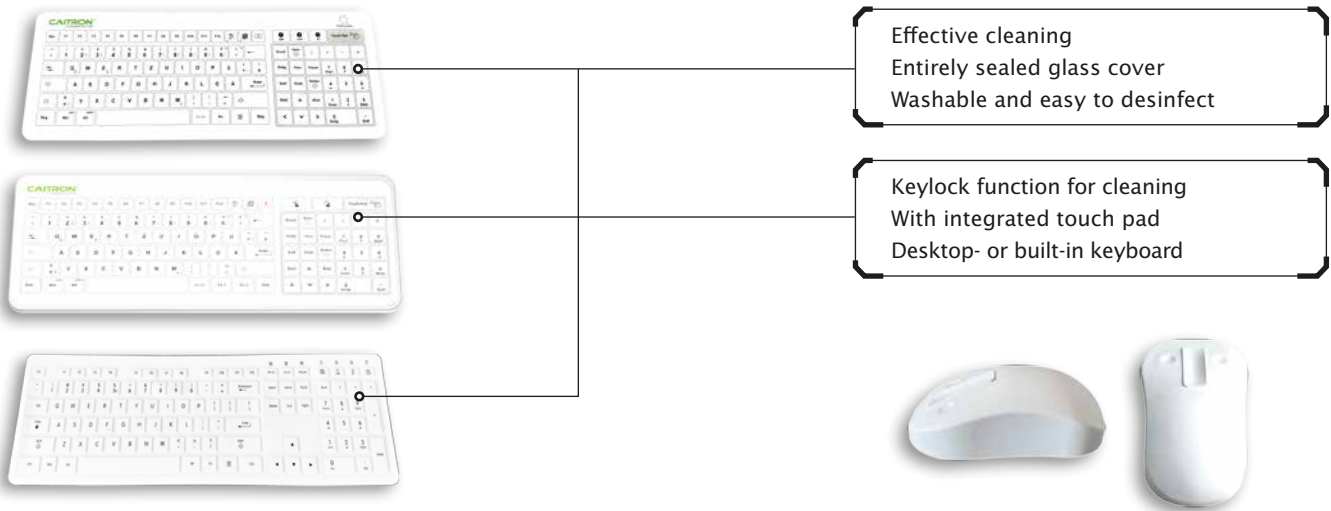
General Accessories

Keyboards, Mice and the CAITRON App



General accessories

Keyboards in various designs and materials



Item No.	101215/101463 (DE / US)	101442 (nur DE)	101258/101385 (DE / US)
Dimensions	436 x 160 x 20 mm	445 x 174 x 10 mm	443 x 128 x 15.9mm
Weight	Keyboard 0.87 kg	Keyboard 2.74 kg	Net weight: 570g
Finish	Tempered Glass	Tempered Glass	Completely sealed silicone surface
Housing material	Rugged ABS CaseColour	Rugged ABS CaseColour	100% silicone panel+ABS housing
Switching technology	With touchpad support Multi-gesture control	With touchpad support Multi-gesture control	Compact key layout with integr. touch-pad
Connection	Bluetooth or wired	Bluetooth or wired	Bluetooth or wired
Interface	USB, Bluetooth & RF via Dongle (Supplied)	USB, Bluetooth & RF via Dongle (Supplied)	Interface: USB2.0 - Power: 20mA@5VDC

Additional equipment

Hygienic and detectable touch pen



Do you have any questions?

Personalised support from implementation right through to bespoke customisations

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