

Operating Manual



Customer Display

INVICTUS

This manual is available online and can be downloaded free of charge on our website www.quorion.com under "Support" in the category "Operating Manuals".

Warranty

The warranty is in line with the statutory regulations.
The warranty only applies to the country in which the POS system was purchased.

Publisher

QUORION Data Systems GmbH
An der Klinge 6
99095 Erfurt
Germany

Customer service

In case of technical problems with the product, please contact your authorized dealer directly.

Original operating manual

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User Instructions

This chapter provides basic information on how to use this manual.

Scope of Validity

This manual is only valid for the customer display INVICTUS.

This manual is intended for the specialist dealer.

Nomenclature

Full designation	Designation in this document
Customer Display INVICTUS	Product, device, POS system

Tags

Tag	Use	Example
Bold	Control elements, functions	Press PLU button
<i>„Cursive“</i>	Messages, dialog windows	The message <i>„Number: ?“</i> is displayed.
[Thin]	Menu items	Select the menu item [Z Report].

Explanation of Symbols

Warnings

The following signal words are used in this manual.

Signal word	Meaning
 WARNING	Warning which, if not observed, may lead to death or serious injuries
 CAUTION	Warning which, if not observed, may lead to slight or moderate injuries
NOTICE	Warning which, if not observed, may lead to material damages
HINT	Information, which is not safety-relevant, but important for a certain topic or objective

Further Symbols

The following symbols are used in this manual and on the type plate.

Symbol	Meaning
	Requirement
	Desired result
1.	Handling instructions to be executed in chronological order
	Individual handling instructions
	Handling instructions which are safety-relevant
-	Numeration
	Path
	Cross-references
	Safety information
┌	Space
	Presentation of the menu selection in abridged version
 SPECIALIST	Sections describing activities to be performed by qualified persons only
	Read operating instructions before use. Observe safety information in the operating instructions.
	Symbol for separate collection of electronic and electrical devices. The POS system and its components may not be disposed with household waste.

Safety

Please read the complete following safety information before using the device to prevent damages to your QUORiON product or injuries to yourself and others.

Intended Use

The customer display is used to visualize payment transactions at the POS system. The customer display can also show graphic advertising messages and QR codes for the use of online receipts from external service providers.

Unintended Use

Any use beyond or different from the intended use shall be considered unintended use.

Safety Information

This customer display has been designed according to the current state of technology and generally recognized safety-relevant regulations. However, in case of improper use, there may be danger for life and limb of the operator or third parties and/or damages to the POS system or other objects may occur.

Please read the following safety information and observe it when operating the device.

Operating Manual

Non-adherence to this operating manual may lead to injuries and property damage.

- ▶ The operating manual must be read and understood before performing any work.
- ▶ The basic condition for safe working is adherence to all safety information and provisions specified in this operating manual.
- ▶ The operating manual is a part of the product and must be stored in the immediate vicinity of the product and be accessible any time.
- ▶ Store the operating manual and only pass the product on to third parties in combination with the operating manual.

⚠ Certain Groups of Persons

If unqualified persons perform work on the product, it may lead to injuries and property damage.

- ▶ Repairs may only be carried out by qualified service technicians.
- ▶ Children and certain other groups of persons with reduced physical, sensory or mental capabilities and lack of experience may only use this product when being supervised or when familiar with the dangers associated with use.
- ▶ Children may not play with the product. Children may not clean or open the product without supervision.

⚠ Power Supply

The product is operated with electric power so that there is a general danger of electric shock.

- ▶ Never dip the product into water or any other liquids. Keep the product away from rain and wet conditions. Do not deposit any containers containing liquid on the product. If liquids enter the customer display, pull the power cord immediately and contact your local authorized dealer. Do not operate the product outdoors or in rooms with high humidity (> 95%).
- ▶ Never insert objects into the openings of the product.
- ▶ Do not make any changes to the customer display, its components and accessories.

⚠ Set-up Location

Setting up the product at an improper location may lead to injuries or property damage.

- ▶ Only use the product indoors. Only use the product at ambient temperatures ranging from 0 °C to +45 °C.
- ▶ Do not expose the product to extreme temperatures, temperature fluctuations, heating and cooling systems, direct sunlight, high intensities of dust, vibrations and shock, extreme humidity or wetness.

⚠ Defective Product

The use of a defective product may lead to injuries and property damage.

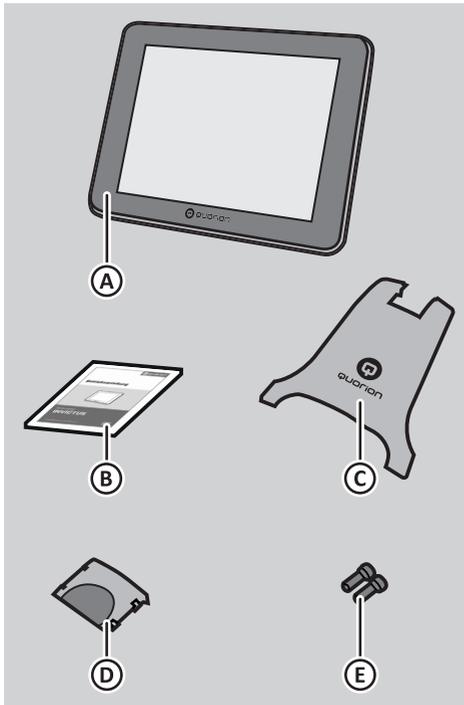
- ▶ Only use the product when in technically flawless condition and in compliance with this manual regarding intended use, safety and risk awareness.

Product Overview

Check the scope of delivery for completeness and any externally visible damage. Contact your authorized dealer if the scope of delivery is incomplete or damaged.

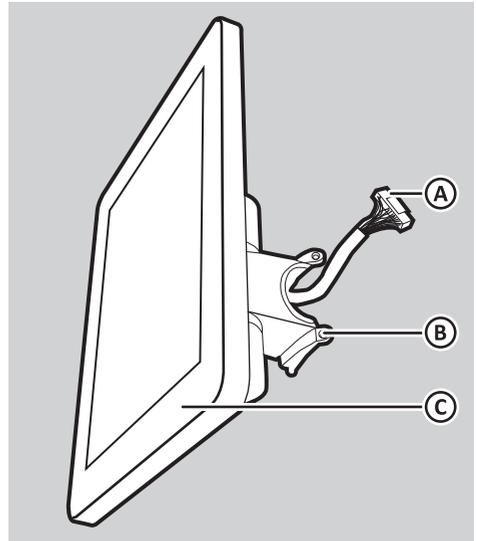
Standard Scope of Delivery

The standard scope of delivery includes the following parts:



Pos.	Quantity	Designation
A	1	Customer display
B	2	Operating manual
C	1	Stand cover
D	1	Cable cover
E	2	Mounting screws

Component Overview



Pos.	Designation
A	Display cable
B	Bracket
C	Display

Technical Data

The customer display has the following technical data:

Display	
Size	9.7-inch TFT display
Resolution	1024 x 768 px
Specifications	
Weight	1.2 kg
Operating temperature	0 °C – +40 °C
Storage temperature	-20 °C – +60 °C
Humidity	38 % - 80 %
Dimensions (LxWxH)	250 x 193 x 110 mm

Commissioning

This chapter describes the commissioning process and provides an overview of the steps to be performed in the specified order.

Mounting of the Customer Display

⚠ SPECIALIST

⚠ WARNING

Danger to life due to electric shock

Direct or indirect contact with live parts may result in a dangerous electrical current on the body. Electrical shock, burns or death may result.

- ▶ Before working, make sure that the POS system is disconnected from the power supply. During work, make sure that the POS system remains disconnected from the power supply.
- ▶ All work on the POS system has to be carried out by a trained specialist only.

⚠ CAUTION

Risk of injury due to the POS system falling down

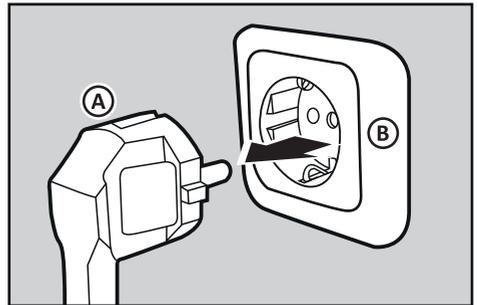
Setting up the POS system on uneven, slippery surfaces may cause it to fall down. This may lead to personal injury.

- ▶ Place the POS system only on an even, slip-resistant surface.

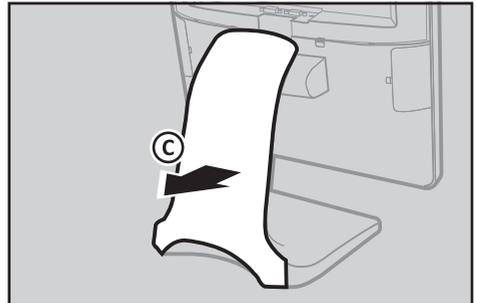
To use the customer display, you must mount the customer display on the POS system.

Procedure:

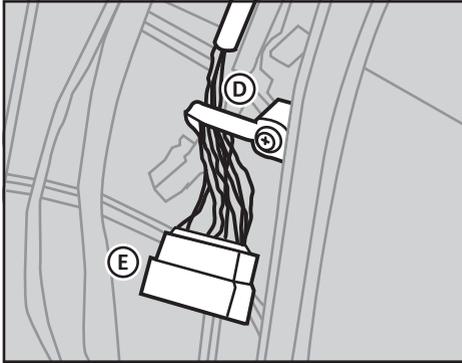
1. Switch off the POS system.
2. Pull the safety plug (A) of the power cord from the socket (B).



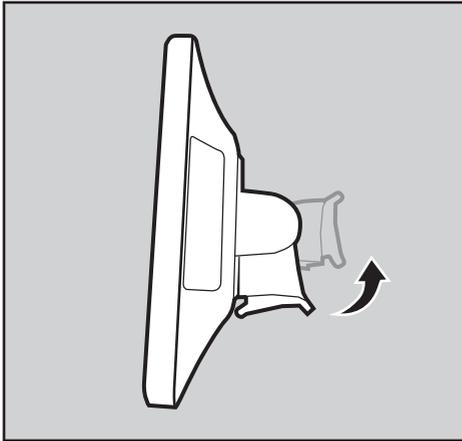
3. Remove the old stand cover (C) from the POS system.



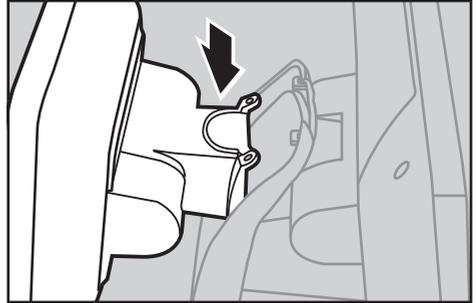
4. Disconnect the connection cable (E) of the POS system from the cable holder (D).



5. Fold the bracket of the customer display into a horizontal position.



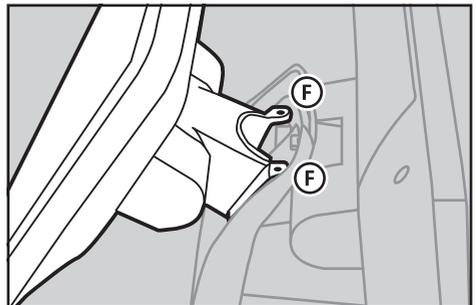
6. Connect the connection cable of the POS system to the display cable of the customer display.
7. Position the customer display on the stand of the POS system. Make sure that the lower locking lugs are correctly inserted into the corresponding recesses on the stand.



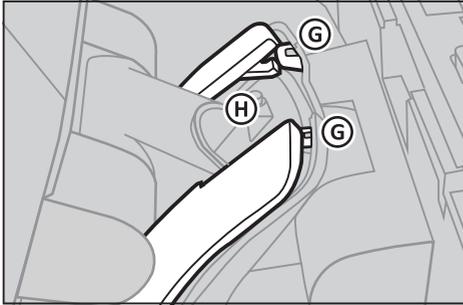
8. Fold the customer display in the direction of the POS system. Make sure that the drill holes in the customer display are flush with the mounting points in the base.



9. Fasten the customer display to the mounting points of the stand (F) using the 2 mounting screws. Make sure that the mounting screws are hand-tightened.



10. Install the new stand cover. Make sure that the upper locking lug of the stand cover (H) slide correctly into the recesses on the stand (G) and that no cable is jammed.



11. Mount the cable cover.
- The customer display is properly mounted.

Customize POS Configuration with QProg

⚠ SPECIALIST

To run the application without errors, you need to adjust the cash register configuration. This can be done for the INVICTUS with QMP 1.0 software via the "QProg" programming software.

Requirements:

- The customer display is mounted on the POS system (📖 p. 11).
- The POS system is switched on.

Procedure:

1. Connect your POS system to the PC.
2. Start QProg.
3. Load the configuration from the POS system.
4. Activate the customer display:
 - Select the menu items [System] ➔ [Fixed Texts] ➔ [General Messages].
 - Enter the value **127.0.0.1:25061** in

the line "118 AGE server".

- Confirm the entry by pressing the button **OK**.
5. Transfer the configuration to the POS system.
 - The POS configuration is properly customized.

Customize POS Configuration with QSC

⚠ SPECIALIST

To run the application without errors, you need to adjust the cash register configuration. This can be done for the INVICTUS with QMP 2.0 software via the "QSC" programming software.

Requirements:

- The customer display is mounted on the POS system (📖 p. 11).
- The POS system is switched on.

Procedure:

1. Connect your POS system to the PC.
2. Start QSC.
3. Load the configuration from the POS system.
4. Activate the customer display:
 - Select the menu items [Hardware] ➔ [Device Configuration].
 - Add a new device of the type "**Customer Display**".
 - Set the connection to "**Network**".
 - Enter the value **127.0.0.1** in the line "**IP/Domain**".
 - Enter the value **25061** in the line "**Port Number**".
 - Confirm the entry by pressing the button **OK**.
5. Transfer the configuration to the POS system.

- The POS configuration is properly customized.

Installing App

To use the customer display on the POS system, the QUORION Display app must be installed on the POS system.

Requirements:

- The customer display is mounted on the POS system (📖 p. 11).
- The POS configuration is adjusted.
- The POS system is switched off.

Procedure:

1. Download the APK file "QDXXXXXX.apk" from Onehub (Onehub ➔ QUORION World ➔ QMP Software Updates ➔ QUORION Display).
2. Save the APK file to an external USB drive.
3. Install the external USB drive on the POS system.
4. Start the POS system.
5. Close the POS application:
 - Press the button  ➔ **Closing App?**
 - The message "Closing App?" is displayed.
 - Press the button **Yes**.
 - The POS application is closing.
6. Open the Explorer in the Android operating system. To do this, swipe up on the main screen and press the button **Explorer**.

7. Select the appropriate directory on the USB drive and install the APK file. To do this, press the button for the corresponding APK file and press the Install button **Install**.
8. Press the button **Finish**.
9. Press the button **Open**.
10. Enable permanent display and give the QUORION Display app the permissions it needs.

HINT

If you do not give the QUORION Display app all of the required permissions, the QUORION Display app will not work properly.

11. Make the desired settings on the QUORION Display app (📖 p. 15).
12. Restart the POS system.

HINT

Approx. 10 s after starting the POS application, the QUORION Display app is automatically started and the customer display is thus ready for operation.

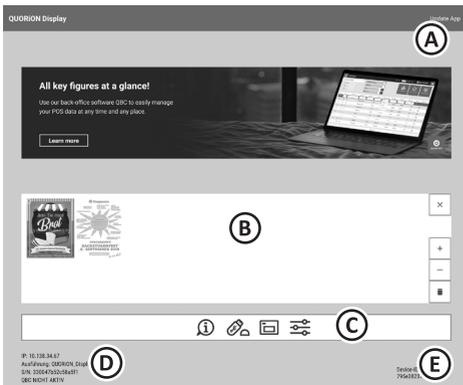
- The QUORION Display app is properly installed.

Operation

In this chapter, you will find information on the basic functions that you need to operate your customer display.

User Interface

When you start the QUORiON Display app, the user interface is displayed.



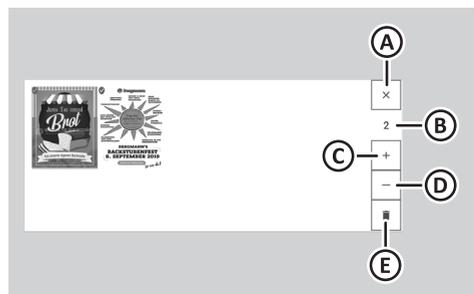
Pos.	Designation/Function
A	Update App checks for online updates and installs the latest app version on the Android device (requires permission to install apps from unknown sources)
B	Media section displays the active as well as inactive graphics files: colored = graphic is displayed grayed out = graphic is not displayed
C	Function section displays all buttons for the operation of the app.

Pos.	Designation/Function
D	Information section displays the serial number of the tablet, the program version of the application, the status of the cloud connection, the IP address and the device ID of the tablet.
E	Device-ID shows the device identification number of the tablet.

Media Section

All available graphic files are displayed in the media section. To be able to use graphic files for advertising campaigns, you must import them into the media section (📖 p. 12) and then activate or deactivate them (📖 p. 12). In addition, you can delete graphic files that are not required from the media section (📖 p. 13).

If you tap on a graphic file in the media section, this graphic file will be marked (blue tick) and the status bar of the media section switches to the edit mode. There you will find various buttons for editing the graphic files:



Pos.	Designation/Function
A	Cancel selection cancels the selection
B	Number of selected graphic files displays the number of selected graphic files
C	Deactivate removes the selected graphic files from the advertising campaign
D	Activate adds the selected graphic files to the advertising campaign
E	Delete deletes the selected graphic files from the media section

Function Section

The following buttons can be found in the function section and downstream menus.

Button	Designation/Function
	Start activates the presentation mode
	Load images downloads graphic files from the cloud memory
	Cloud status synchronizes the QUORION Display app with a linked cloud memory
	Load images from external storage medium loads graphic files from an external storage medium connected to the tablet into the media section of this app
	Set logo sets the logo in the header
	Settings opens the menu [Settings]

Starting Presentation Mode

In order to display the transaction and advertising information, the presentation mode of the application must be activated.

Procedure:

- Press the button **Start**.
- ☑ The presentation mode starts.

Manage Campaigns

Use the customer display to show graphic files for advertising purposes in addition to displaying transactions.

Importing Graphic Files

To use graphic files as advertising campaigns, you must import them into the application. You can transfer graphic files directly to the tablet via a connected external storage medium or download them from cloud storage.

Requirements:

- ☐ The graphic files are located in a folder named "images" on a external storage medium.
- ☐ Tablet is switched off.
- ☐ Graphic files are available in JPEG- or PNG format.

Procedure:

1. Connect the external storage medium with the graphics files to the corresponding interface of the tablet
 2. Start the tablet.
 3. Wait until the application is started.
 4. Press the button **Load images from external storage medium**.
 5. Activate the graphic files to be imported in the selection menu by clicking on them.
 6. Press the button **Apply**.
- ☑ The graphic files are properly imported.

Activating/Deactivating Graphic Files

To be able to use graphic files as advertising campaigns, you must activate the corresponding graphic files in the media section.

Requirement:

- The graphic files are available in the media section.

Procedure:

1. Select the desired graphic file. To do this, tap on the graphic file.
 - The graphic file is marked with a blue check mark.

HINT

You can select several graphic files at the same time.

2. Activate or deactivate the desired graphic files:
 - To activate a graphic file, tap the button **+** at the top of the media section.
 - The graphic file is displayed in color and will be shown in the advertising campaign.
 - To deactivate a graphic file, tap the button **-** at the top of the media section.
 - The graphic file is grayed out and will not be shown in the advertising campaign.

HINT

If you activate more than 1 graphic file, the graphic files are displayed as a slide show.

- To deselect, tap the button **x** at the top of the media section.
- The graphic files are properly activated/deactivated.

Deleting Graphic Files

To delete graphic files from the media section, proceed as follows:

Procedure:

1. Select the desired graphic file. To do this, tap on the graphic file.
 - The graphic file is marked with a blue check mark.

HINT

You can select several graphic files at the same time.

2. Press the button **⌫**.
3. Confirm the deletion by pressing the button **Delete**.

HINT

By pressing the button **Cancel** you cancel the deletion process.

- The graphic files are properly deleted.

Setting Logo

You can set the logo in the upper left corner of the status bar individually.

Procedure:

1. Press the button **Set logo**.
2. In the window [Open from], select the path to the graphic file to be displayed.
3. Confirm the graphic file by pressing the preview image from.
 - The logo is properly set.

Customizing Settings

The Settings menu allows you to adjust all relevant settings of the customer display.

The following setting options are displayed in the Settings menu.

- **Campaign**
sets the start time in seconds until the advertising campaign is displayed with the receipt open.
- **Socket Port**
serves to set the port number for the TCP/IP connection

HINT

The socket port is set to 25061 in the delivery state. If you change this value, you must make this change in your POS configuration as well (📖 "Customizing Settings", p. 17).

- **Header**
sets the background color of the header.
- **Footer**
sets the font size in the footer.
- **Display Mode**
switches the display mode of the campaign:
Full Screen: displays the registrations and screen savers in full screen mode.
Split Screen: displays the registrations and screen savers in a split screen (registrations on the right, screen savers on the left)
Flexible: displays the registrations in full screen mode and changes to a split screen after the receipt is closed.
- **Startup**
enables/disables the automatic start of the app when the tablet is started (is set to "enabled" in the delivery state).
- **Debug Mode**
saves data to a log file (used for troubleshooting after consultation with customer service).
- **Show Logo**
shows or hides the logo in the header.

- **Update App**
checks online for updates and installs the latest app version on the Android device (requires permission to install apps from unknown sources).

Procedure:

1. Press the button **Settings**.
 - The menu [Settings] is displayed.
2. Make the desired settings in the respective menu items.
 - The settings are properly customized.

Technical Information

The customer display does not contain any components which the operator must service or repair. Please leave all servicing and repairs exclusively to qualified authorized dealers. Unauthorized manipulations of the device may result in loss of warranty.

Cleaning and Care

NOTICE

Danger of damage to the device due to improper cleaning

Improper cleaning and care may damage the customer display.

- ▶ Disconnect the POS system from power before cleaning.
- ▶ Do not use any solvents or fuel-based chemical cleaning agents under any circumstances.

Procedure:

- To clean your customer display, use a dry, lint-free cloth.
- In case of more severe staining, use a slightly damp cloth. Use warm water or screen cleaner to dampen the cloth. Please ensure that the cloth is only damp.

Troubleshooting

This section lists errors which may impair proper operation of your customer display. Before contacting customer service, please check the following possible error sources and implement the remedial measures.

Error	Remedy
The customer display shows the contents of the operator display.	<ul style="list-style-type: none"> – Enable QUORiON Display auto-start function (📖 p. 18). – Enable permanent display of QUORiON Display in Android (📖 p. 14).
When importing graphic files, no graphics are displayed in the selection menu.	<ul style="list-style-type: none"> – Make sure that the graphic files are located in a folder named "images" on the first level on the USB drive.

Disposal

Waste electrical and electronic equipment must not be disposed of with private household waste, but must be collected separately and disposed of properly. The symbol for the separate collection of waste equipment is a crossed-out wheeled bin.

Procedure:

- QUORiON POS systems and accessories sold and used outside Germany are automatically under the responsibility of the local importers, distributors and dealers. In accordance with the WEEE legislation, they are obliged to ensure that the old devices are registered and disposed of in accordance with national legislation. For disposal please contact your local retailer where you purchased this product.

POS Solutions - as individual as your business