DATALOGIC

TaskBook

Rugged Industrial Tablet

User's Manual

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Disclaimer

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This manual describes the setup and features, as well as possible hazards, of the Datalogic Series 7" or 10" TaskBook devices.
We reserve the right to change the content of this document at any time. This description is not a guarantee of any particular features or options.
Products are continuously improved, modified or adapted to customer specifications. There is no guarantee that these instructions will always be 100% identical with the final product.

Before using the 7" or 10" TaskBook, you should read the relevant sections of these instructions. Any damage resulting from improper setup is excluded from the product warranty.

Table of Contents

NOTES

Introduction

This manual is intended to assist you in setting up, installing and using the 7" or 10" TaskBook and to make you aware of any potential hazards.

Datalogic aims to make customers aware of all important information. More detailed information regarding software and hardware is available to you upon request.

Every device is checked and put through final testing by a dedicated inspection team. With each delivery, however, damage can occur through transport. If the packaging is already damaged, please inform the carrier immediately.

Design Element

Health and safety hazards may occur during installation and setup. As such, warnings must be observed.

WARNING/ HAZARD

Immediate death or serious risk of injury.

WARNING/ CAUTION/ DAMAGE TO PRODUCT

Risk of injury may be large.

There may be a slight risk of injury.

Warning about damage to product that may result in malfunction or loss of data.

NOTE/ TIP

Information for easy use of the product.

Check product is complete

The components included upon delivery are listed on the delivery note. Please check if all parts have been included. The following components are normally included upon delivery:

- TaskBook 7" or 10"
- Quick Reference Guide
- Regulatory and Safety Addendum

Safety Instructions

Read this chapter completely and carefully before installation and setup and follow the safety instructions described. The manufacturer/supplier accepts no liability for any damage resulting from non-compliance with these instructions.

TaskBook devices have been developed, tested and manufactured in accordance with state of the art and recognised safety regulations. Nevertheless, during installation, setup or use, hazards to persons or third parties or damage to the devices or other objects may occur.

Improper installation or use of the device can endanger the user.

If safety instructions are not followed, damage to the device or systems may occur.

Internal safety regulations (occupational health and safety, accident prevention) must be followed during installation and operation of the equipment.

General Information

The product must not be opened by the operator/user. For repairs/system upgrades, customer service must be informed.

No modifications may be made by the operator/user. If this occurs, all warranties are void.

If the touch screen is damaged (e.g. glass breakage), avoid contact between the liquid and skin/sensitive areas (eye, mouth). Wash affected areas and clothing with plenty of water and soap.

Qualified personnel

Installation of devices may only be carried out by qualified personnel. As such, this manual is only intended for qualified personnel.

Retention requirements

Each delivery includes at least one manual. Please keep this manual in a safe place, even after installation has taken place.

Areas of use

The devices can be used on vehicles or in industrial sectors.

These devices are not to be used in life-support systems, in safety-critical installations or in explosion-protected areas where direct or indirect danger to human life due to malfunction of the system cannot be ruled out. This includes areas where flammable gases or vapours are present.

The use of these devices in areas mentioned above is prohibited and is done so at the sole risk of the operator.

Hazards during electrical connection

Products with DC/DC power supply

The product must be operated with a Safety Extra Low Voltage (SELV) according to IEC60950-1.

Products with AC power supply

The product may only be connected to an earthed safety plug.

Separator

The standby key does not disconnect the device from the mains voltage. For complete disconnection from the mains voltage, the mains cable must be unplugged or a suitable separator must be installed. Make sure it disconnects all supply lines.

Power Cables

Do not use damaged power cables. Damaged power cables may cause electric shock or fire. Observe country-specific regulations when installing the cables. Make sure that the power cable is not damaged by mechanical interferences.

Only use original power cables from Datalogic. These meet the special requirements for cold temperature flexibility, UV resistance and oil resistance. If other cables are used, the operator is liable for any resulting damage. In addition, any warranties expire.

Charging the internal battery

Either the product must be disconnected from the internal battery during charging, or it must be ensured that the product's maximum allowed input voltage is not exceeded.

Products with power packs

Only the power packs supplied by Datalogic may be used. The power pack may only be replaced by qualified personnel.

	Internal power pack	Power pack with handgrip
Rated Voltage	7.2 V	7.4 V
Power	18 Wh	19.24 Wh

Hazards during installation

Transport/installation

The product may fall during transport or installation and cause injury. Seek assistance from a second person.

Hazard due to a device bracket defect

The product should be installed in such a way that no persons can be injured if the bracket is faulty. If necessary, appropriate safety measures must be taken, e.g. installing a safety rope.

Installation on vehicles

The field of vision and operability of vehicles must not be impaired by the installed product.

Environmental conditions and IP protection

Environmental conditions allowed must be observed. In order to achieve the IP protection class, the cables and the cable cover must be installed as described in Cable Cover Installation on page 94.

Radio frequencies

Output power

The maximum allowed output power specified for the respective country must not be exceeded. The operator of the product must ensure this.

Distance between persons and antenna

A distance of at least 20 cm (7.87 in) is to be maintained.

Aircraft and hospitals

The product must not be installed in aircraft or hospitals without permission.

Medical implants / pacemakers

The product may affect the functioning of medical implant devices and cause interference. A distance of at least 20 cm must be maintained.

CE marking

This device has been developed and manufactured according to VDE and CE regulations.

Information for Scandinavian Countries

- NOR – Norway – Norwegen:

  Apparatet må tilkoples jordet stikkontakt.
- SWE – Sweden – Schweden:

  Apparaten skall anslutas till jordat uttag.
- FIN – Finland – Finnland

  Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.
- DNK – Denmark – Dänemark

  Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.
- DEU - German - Deutschland:

  Das Produkt muss an eine geerdete Spannungsversorgung angeschlossen werden.

LED Warning

CAUTION! Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes.

Technical Data

Dimensions

The performance and autonomy of the device can be affected by the power settings and the user environment.

	SH7	SH10
Length x slot width x height	15.0 x 18.7 x 3.8 cm / 5.9 x 7.3 x 1.5 in	27.9 x 18.7 x 3.8 cm / 10.9 x 7.3 x 1.5 in
Screen diagonal	17.89 cm / 7.04 in	25.75 cm / 10.13 in

Operating temperatures

TaskBook is designed to work in ambient temperatures between -20° and 50° C (-4° and 122° F). TaskBook can be damaged and battery life shortened if stored or operated outside of these temperature ranges. Avoid exposing TaskBook to dramatic changes in temperature or humidity. When you're using TaskBook or charging the battery, it is normal for TaskBook to get warm.

To maximize battery life at high temperatures, we suggest to lower the brightness level and to enable power-save mode on the control panel. High ambient temperatures might decrease performance capacity.

Restrict the use of TaskBook if its surface is covered with ice or frost.

To ensure a reliable operation at low temperature, Datalogic recommends to turn on the device and to carry out the bootstrap when the device temperature is over 0°C.

To maximize the operating temperature range, Datalogic recommends to keep the display brightness at maximum level only for a short time.

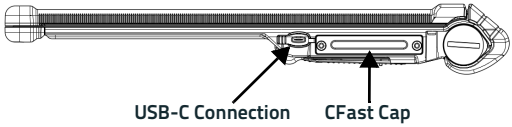
Wi-Fi specifications

Standard	
IEEE802.11ac/a/b/g/n, Bluetooth V4.1,V4.0 LE, V3.0+HS, V2.1+EDR	
Chipset	
Mac/BB/RF	Qualcomm Atheros QCA6174A-5
Host Interface	
PCIe: WLAN, USB: Bluetooth	
Radio	
Antenna	2 x IPEX MHF4 connector, 2T2R Support WLAN / BT co-existence
Operating Frequency	802.11 ac/a/b/g/n ISM Band 2.412GHz~2.484GHz, 5.150GHz~5.850GHz *Subject to local regulations
Modulation	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11b: DSSS (DBPK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Output Power (1TX)	BT: (Class 2 Device) 0 ≤Output Power ≤+4dBm
Receive Sensitivity	802.11a: ≤-66dBm@54Mbps 802.11b: ≤-81dBm@11Mbps 802.11g: ≤-66dBm@54Mbps 802.11gn (HT20):-65dBm@MCS7 802.11gn (HT40):-61dBm@MCS7 802.11an (HT20):-65dBm@MCS7 802.11an (HT40):-61dBm @MCS7 802.11ac (VHT80): ≤-56dBm@MCS9 BT: < 0.1%BER at -70dBm
Power consumption	
Continue TX	405mA
Continue RX	200mA
Operating Voltage	

DC 3.3V ± 10% I/O supply voltage	
Software	
Driver	Windows 7/8.1/10
Security	64/128-bits WEP, WPA, WPA2, 802.1x

TaskBook Interfaces

USB-C Connection

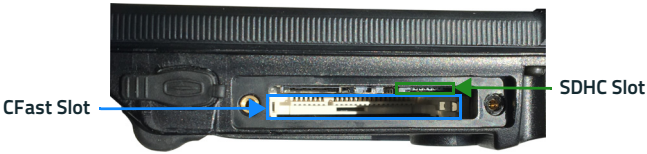


The TaskBook has a USB-C interface. This port can be used to charge the TaskBook's internal battery. The USB-C connection is found on the lower surface of the TaskBook and is protected by a dust cover.

CFast Slot

Behind the CFast cap there is a CFast card (Windows 10). In order to eliminate the CFast-cap, both Tx8 screws must be released.

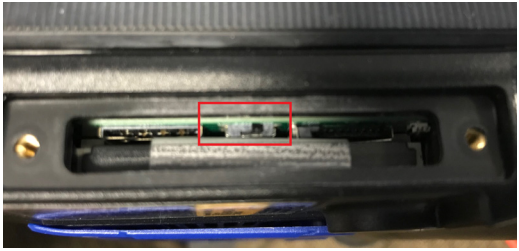
The CFast card is held with a label, which helps it move away from the slot.



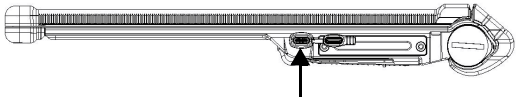
A free slot for additional SD cards (SDHC or SDXC) is also available in this area. Once an SD card is inserted, lightly press on the cart itself

to release it. The SD cards are then released and can be slightly pulled out of place from the slot.

Just above the CFast, a small black switch controls the power supply chain to all the motherboards. Slide the switch to the left position to disconnect the internal battery. Use this switch only when you want to perform a hard hardware reset and avoid any further use. A wrong setting of this switch will prevent the TaskBook from booting.



Charging Internal Power Pack



USB-C Interface

In order to be able to charge the device using the USB-C connection, the power supply has to support the USB-C Power Delivery (PD) specifications of a minimum of 9 V (max. 20 V) and 3 A. The accessory 94ACC0228 complies with these requirements.

The TaskBook can be charged via the USB-C interface. As soon as the charger is connected, a charging symbol appears in the upper right corner of the screen. Additionally, the charge LED on the buttons bar will light up red.

Docking station (AC or DC)

You can charge the TaskBook by inserting it in a Docking Station (PN from 94ACC0214 to 94ACC0225) connected to the power line/ vehicle battery. To insert the TaskBook in the Docking station, rest the buttons bar side on the docking station and hinge it down with a rolling movement.

As soon as the docking station is connected, a charging symbol will appear in the upper right corner of the screen. Additionally, the charge LED on the sensor bar will light up red.

Handgrip

You can charge the TaskBook by using the detachable handgrip (PN from 94ACC0211 to 94ACC0213) containing a charged battery. Rest the buttons bar side on the handgrip and hinge it down with a rolling movement until it clicks.

An additional power pack symbol will appear in the upper right corner of the screen. When connected through the handgrip, the internal power pack is charged by the handgrip's external power pack. In addition, 'Charge" LED on the sensor bar will start to light up red and the 'EXT BAT" LED will light up green, provided the external power pack has sufficient capacity. When the internal battery is fully charged the 'Charge-LED" is switched off while the 'INT BAT" and 'EXT BAT" green leds are both light up.

The internal power pack is charged until it has reached approximately the same level of power as the external power pack. For full charging of the internal power pack, the use of either the docking station or a compatible USB-C PD power supply is recommended.

NOTES

Buttons Bar

Status LEDs

Brightness Sensor

S Button

Menu Button

Key Button

Power Button

Status LEDs

The sensor bar has 5 status LEDs.

CHARGE - LED

Charge – LED lights up solid red when the internal battery is charging. If it blinks, the internal battery is faulty and must be checked.

INT BAT – LED

The INT BAT – LED provides information about the status of the internal rod battery. If the charge level is between 100% and 30%, the LED lights up solid green. If the capacity of the power pack falls below 30%, the LED blinks green.

EXT BAT – LED

The EXT BAT LED lights up solid green as soon as an external power source is connected. External power sources include the docking station, the USB-C charger and the handgrip power pack. The LED on the handgrip battery pack starts blinking as soon as the battery capacity drops below 30%. The INT BAT – LED and EXT BAT – LED don't necessarily blink simultaneously.

TEMP – LED

If the temperature of the TaskBook falls below the minimum rated specification or exceeds the maximum rated specification, the TaskBook will automatically switch off to protect itself from damage. In this case, the Temp – LED lights up red and will only stop when the internal temperature has returned to normal. If the Temp – LED is lit up, the TaskBook cannot be switched on.

STATUS – LED

The Status – LED indicates whether the device is switched on or not. It also blinks green when the screen blanking is active. The screen

blanking can be activated via a signal on the docking station's COM interface.

Brightness Sensor

The brightness sensor adjusts the display brightness automatically. This is disabled by default.

S Button

The S Button is a programmable button. It can be used as a shortcut for frequently used keys/functions/programs.

For information on how to customize such button, see Device Basic Configurations on page 37.

Menu Button

The Software menu is called up using the Menu button.

The following options are available:

- Activate scan function for the buttons bar
- Activate key lock
- Adjust the brightness of the buttons bar
- Change the volume
- Rotate the display orientation (portrait or landscape)
- Change the Brightness

Scan Function

This function allows to set the buttons in the buttons bar as soft triggers to scan barcodes. After pressing the **Scan Function** key:

- the menu bar disappears
- the message "Scan function for key bar ON" appears for a few seconds
- the icon  appears on the screen.

When this function is activated the scanner can be triggered with the following buttons:

- S
- Menu
- Key

The above listed buttons will only act as scan triggers while this function is active (i.e. while the icon is on the screen).

To exit the **Scan Function**, press the **Lock** button on the screen. The message "Scan with every button OFF" will appear for a few seconds to confirm that this function has been disabled.

NOTE

You can drag and drop the Lock icon to another position on the screen if desired.

If you enable the Scan Function without the handgrip, the system will enter Key Lock mode (see next section).

Key Lock Mode

This function allows to lock the buttons on the buttons bar.

After pressing this button:

- the menu bar disappears,
- the message "Key Lock ON" appears for a few seconds
- the icon  appears on the screen

When this function is activated, the following buttons are locked:

- S
- Menu
- Key

To exit the **Key Lock Mode**, press the lock button on the screen. The message "Key Lock OFF" will appear for a few seconds to confirm that this mode has been disabled.

You can drag and drop the Lock icon to another position on the screen if desired.

Buttons Bar Brightness

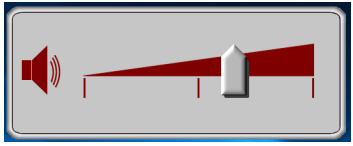
Press the above button to switch to a different light setting for the button bar. The available settings are:

- Key Illumination ON Half Intensity
- Key Illumination ON Full Intensity
- Key Illumination OFF Half Intensity on pressing
- Key Illumination OFF Full Intensity on pressing

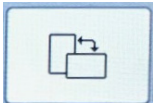
When a Key Illumination OFF profile is selected, the blue back light of the buttons bar turns off; it turns on when you press the button.

Volume Control

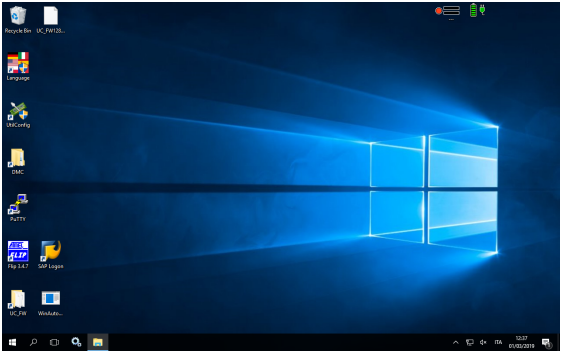
Press this button to adjust the volume. Increase or decrease the volume level by scrolling the slider.



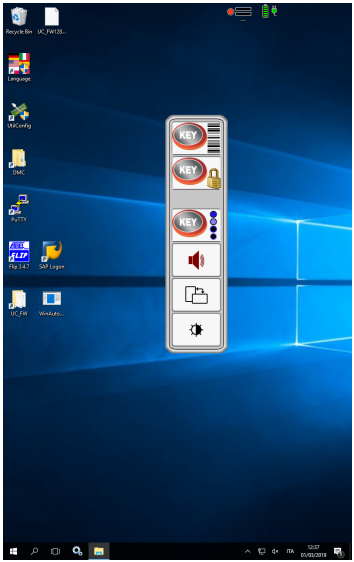
Orientation Portrait/Landscape



Press this button to switch from portrait to landscape mode and vice versa.



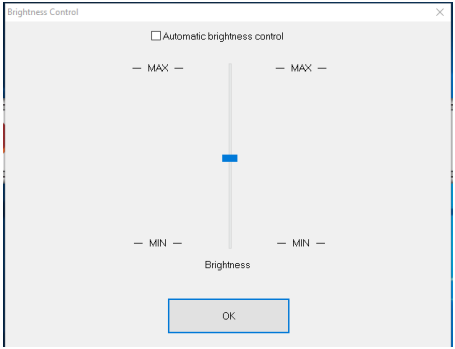
Landscape Orientation



Portrait Orientation

Brightness Control

Press this button to adjust the screen brightness. Increase or decrease the brightness level by scrolling the slider.



Key Button

Touch the key button to call up or remove the SoftKey Keyboard.

The SoftKey Keyboard is totally customizable in terms of keys, colors, button locations, etc. (see Software Keyboard on page 51). By default it comes with 3 different configurations available: QWERTY, NUMPAD, FUNCTION MODE.

Changes the keyboard layout to numpad mode.

Changes the keyboard layout to QWERTY mode.

Changes the keyboard layout to F1 - F12 - mode.


Toggles the 3 keyboard sizes (small, medium, large).


Tap and hold this symbol to position the keyboard freely on the screen.

Qwerty

Numpad

Function Keys

Power Button

Press the power button for at least 5 seconds to suspend the TaskBook. Hold the power button for at least 10 seconds for a hard reset.

To switch on the device, either the INT BAT – LED or the EXT BAT – LED must be lit up green.

The pressure time needed to trigger the power on or off is customizable. See Frontkeys on page 42 or StartUp/ShutDown Mode on page 45 for more details.

NOTES

Wi-Fi Settings

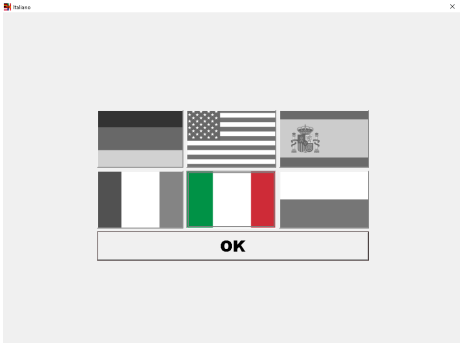
The TaskBook has a SparkLAN WNFQ-258ACN(BT) Wi-Fi card with Qualcomm Atheros QCA6174A-5 chipset. The necessary drivers are pre-installed. The Wi-Fi settings are configured via the Windows' own Wi-Fi settings.

NOTES

Change Regional Settings

Change operating system language

Push the icon with the flag and wait for the following pop up to appear:

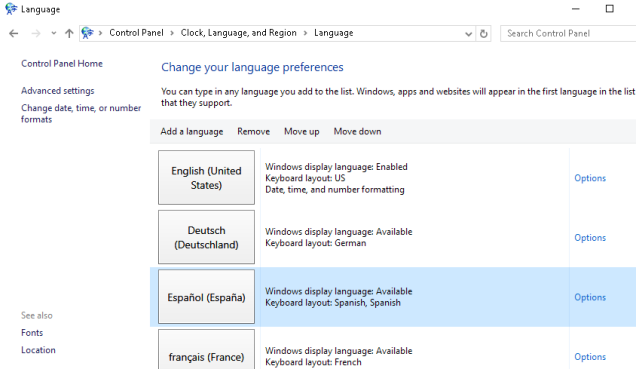


Select the language you want to change to and push the OK Button.

The device then restarts and changes the language to the selected language.

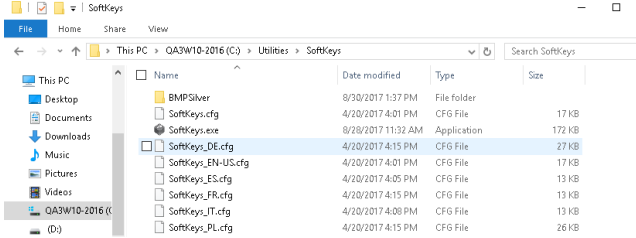
Change Keyboard in Operating System

Open the Control Panel and select Change Keyboard Language. The language you want to have has to be moved to the top with the Move up button. Now the Windows-Keyboard is in the selected language.

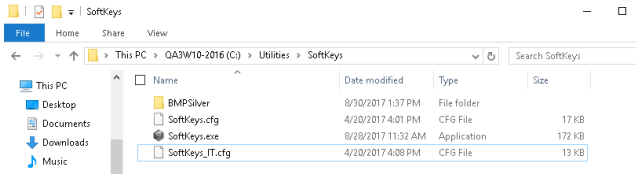


Change Keyboard language

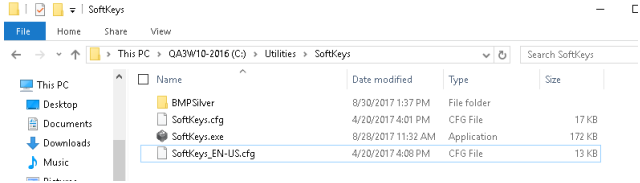
Go to the specified path C:Utilities >SoftKeys:



Delete all keyboard languages that are not needed, but save them on a USB stick or similar if you need them again later.



Rename the file to the language which is set in the operating system. Here the user wants to have an English-speaking device with an Italian keyboard and therefore we renamed Softkey_IT.cfg into Softkey_EN-US.cfg.



NOTES

Device Basic Configurations

Advanced settings for both Hardware and Software features are configurable through the UtilConfig tool. All settings are saved in the "\Utilities\UtilConfig.cfg" file and can be manually edited row by row.

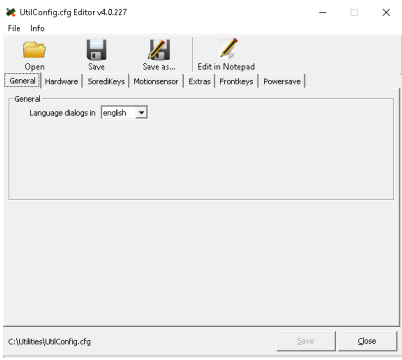
Some high-level options are also available through a graphical interface.

UtilConfig Editor

There is a shortcut located on the desktop. Alternatively, UtilConfig can also be opened via Start > Utilities > UtilConfig.

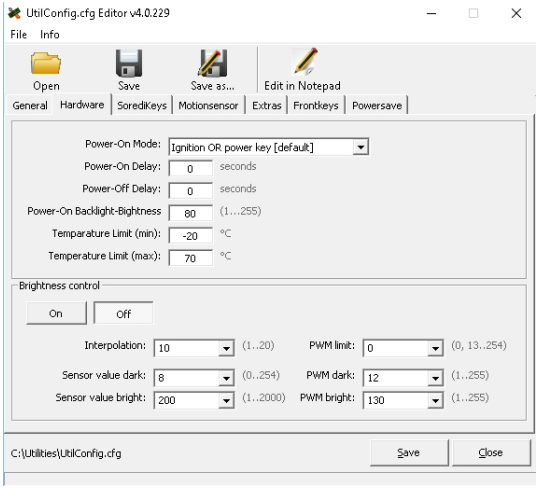
General section

The language of the UtilConfig can be set here.



Hardware

The turn-on mode, the temperature limits and the brightness sensor can be configured here.

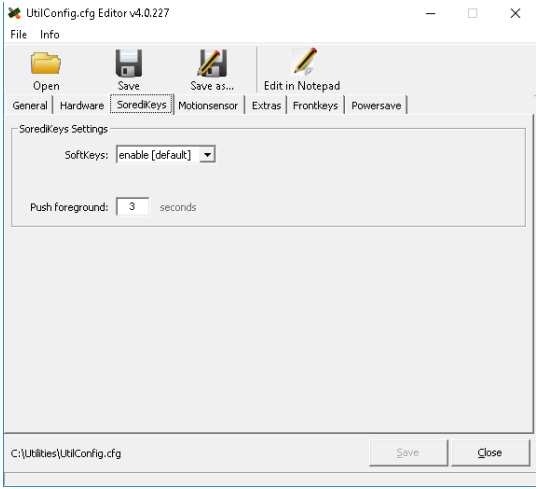


CAUTION

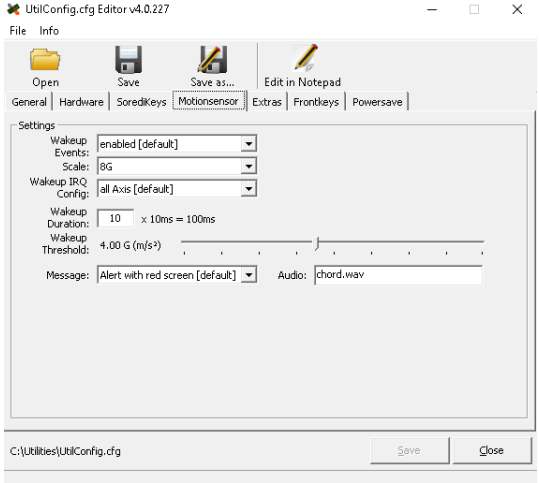
The temperature must not exceed 70°C.

SoredyKeys

Allows to define whether or not to enable the software keyboard.



MotionSensor

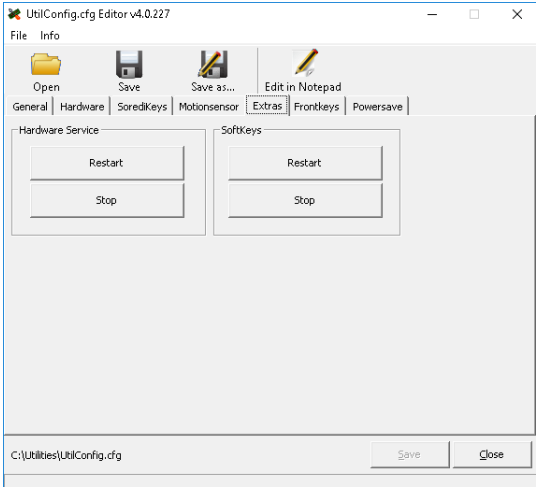


NOTE

The availability of the Motion Sensor depends on the model.

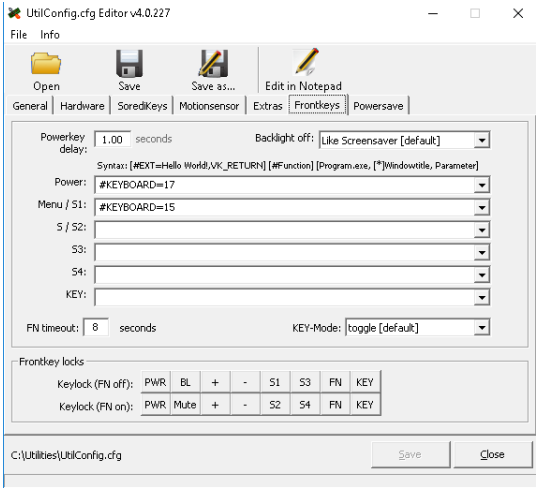
Extras

Allows to restart or stop the hardware service and the SoftKey ones.



Frontkeys

With this menu you can configure the commands of the keys on the touch bar on the side.

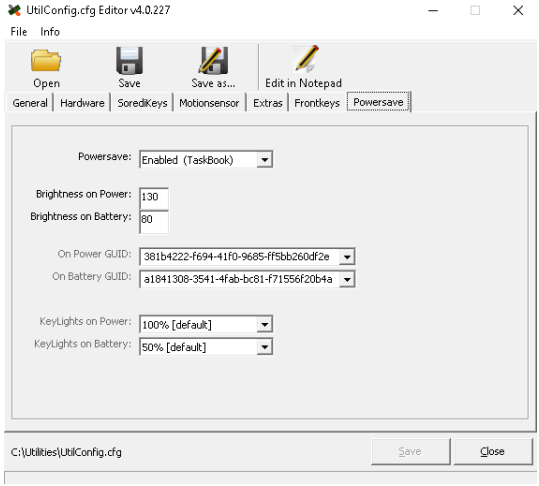


You can use the **Powerkey delay** box on the top left corner to set the pressure time required to turn on or off the device.

NOTE

To prevent accidental power on/off, we recommend to set a time between 3 and 5 seconds.

PowerSave


UtilConfig.cfg Editor v4.0.227
File
Info
Open
Save
Save as...
Edit in Notepad
General
Hardware
SorediKeys
Motionsensor
Extras
Frontkeys
Powersave
Powersave:
Enabled (TaskBook)
Brightness on Power:
130
Brightness on Battery:
80
On Power GUID:
381b4222-f694-41f0-9685-ff5bb260df2e
On Battery GUID:
a1841308-3541-4fab-bc81-f71556f20b4a
KeyLights on Power:
100% [default]
KeyLights on Battery:
50% [default]
C:\Utilities\UtilConfig.cfg
Save
Close

NOTES

Advanced Device Configuration

StartUp/ShutDown Mode

The mode described below applies only to the TaskBook inserted in the Docking Station with VDC power supply, the use designed for VMC solutions.

The TaskBook has 3 modes of controlling Startup and Shutdown. The mode is set by commands in the "\Utilities\UtilConfig.cfg" file. Each mode controls how the Ignition Sense power connector wire (IGN) and the TaskBook's front panel Power button (PWR) work together. In the default mode (mode 1), IGN must be at a voltage greater than 10 VDC and PWR must be pressed and held for a specified period to power up the VMC. Shutting down in this mode may be accomplished by removing the positive voltage from IGN or pressing the PWR button, either must be for a specified time to shutdown.

The other common mode (mode 0) allows IGN or PWR to control the Startup/Shutdown. In this mode connecting IGN to positive voltage will power up the VMC, and disconnecting it will power down. Similarly powering up via PWR then pressing PWR again will power back down. If using PWR to control the VMC in this mode, IGN should NOT be switched or tied to + power. When using this mode you should either be exclusively using IGN to control the VMC, or PWR but not mixing the two.

If the VMC is powered up via IGN, but powered down via PWR, it will immediately begin to power back up.

The final mode (mode 3) is seldom used. In this mode, the VMC will power up anytime there is power applied. Both IGN and PWR are ignored in this state.

When the VMC is being powered down by IGN, it will typically display a countdown screen advising the user the remaining time before the terminal shuts down. The shutdown time as well as whether the countdown is displayed are both controlled by the configuration file.

Configuration (in \Utilities\UtilConfig.cfg):

- ***PowerOnMode*** sets the Startup/Shutdown mode.
  - 0 = IGN or PWR
  - 1 = IGN and PWR
  - 3 = AutoOn
- ***IgnOffDialog*** displays the shutdown timer window when IGN is turned off
  - 0 = Do not display the window
  - 1 = Display the shutdown timer window
- ***IgnOffDlgType*** size of the shutdown timer window if enabled
  - 0 = Full screen display, no user interaction is allowed (not recommended)
  - 1 = Medium size display, user may move the window and interact with the system

  - 2 = Small size display, user may move the window and interact with the system

- ***IgnStartTimeSec*** seconds after IGN goes high before the VMC begins booting
- ***IgnOffDelayTimeSec*** seconds after IGN disconnects before the VMC shuts down
- ***DelayPowerKey*** milliseconds PWR must be pressed before the VMC begins booting.

Front Panel Keys

There are three programmable buttons on the buttons bar. The programming is set by command lines in the "\Utilities\Utilconfig.cfg" file as well as with the GUI described in UtilConfig Editor on page 37. The configurable buttons have the following functions:

- PWR – Starts & shutdowns the terminal depending on the current Startup/Shutdown mode.
- 1 – Up arrow.
- KEY – Display/remove the soft keyboard from the screen.

Normally the PWR and KEY buttons should not be reprogrammed, but they are available if required.

Configuration

The listed values are the default values from the factory. Setting PWR and KEY to blank causes them to execute Startup/Shutdown and Softkeyboard respectively. The VK values for each key are listed in the SoftKeyboard section of this document. Multiple values can be entered for a key by using comma to separate the values. For example, the definition Frontkey_S1=#EXT=VK_TAB,VK_RETURN would cause the S1 key to transmit tab, then a return key.

- Frontkey_PWR=
- Frontkey_S1=#EXT=VK_UP
- Frontkey_S2=
- Frontkey_S3=
- Frontkey_S4=
- Frontkey_KEY=

The TaskBook also provides the ability to lock the individual front panel keys. There are two keywords to control the state of the keys when the function mode is off (HWKeyLockFNOff) and when the function mode is on (HWKeyLockFNOn). Each of the keywords is an 8 bit mask, using one bit each to control the individual keys. Bits 0-7 are:

- PWR (1)
- BL (2)
- + (8)
- - (16)
- S1 (32)
- S2 (64)
- FN (128)
- KEY (256)

Setting the specific bit to a 1 will lock the respective key. For example, setting HWKeyLockFNOff=66 would disable the BL (2) and S2 (64) buttons when the function mode is not set. Setting HWKeyLockFNOn=256 would disable the KEY (256) button when the function mode is set.

NOTE

Be aware that if you are attempting to control the PWR button, you can lock the TaskBook. Disabling the PWR button at the same time you have the startup mode set to IGN and PWR will block the TaskBook from being able to be powered up.

Screen Blanking

This applies only when TaskBook is used on a docking station installed on a forklift and the screen blanking cable is connected to the motion sensor of the vehicle.

The TaskBook has the ability to blank the screen when positive voltage is applied to a designated COM port pin. This is typically used to blank the screen when a vehicle is in motion, a requirement is some countries. For the TaskBook, an external sensor must be used that will either provide a positive voltage when the vehicle moves, or closes a relay in the same circumstance. If using a relay, then the positive voltage from pin 9 of the selected COM port should be wired as input to the relay. The output from the sensor or relay should be wired to pin 1 (DCD) or pin 6 (DSR) of the selected COM port. The screen blanking cable from Datalogic (p/n 94ACC0157) is wired to pin 9 (pink) and pin 6 (grey).

Configuration

Locate (or add) the line ScreenBlankBits=X in the [General] section of the file. X should be set to the appropriate value from the list:

- 1 – COM1: DCD (pin 1)
- 2 – COM1: DSR (pin 6)
- 4 – COM2: DCD (pin 1)
- 8 – COM2: DSR (pin 6)

Deleting the ScreenBlankBits line from the cfg file will turn off screen blanking.

Keyboard Configuration File

The Configuration file is a text file built in sections to provide the definitions for the keyboard layouts. Comments can be marked at beginning of a line with a semicolon (;).

Section [Common]

In this section general settings will be defined.

Certain settings can be overridden explicitly within the definition sections of the actual keyboard data for the respective keyboard. These settings are explained separately in a 2nd table.

General Settings

Keyname	*Parameter – Info*
ImagePath	Directory name for all used Bitmaps within this Cfg. The specified directory is always searched in the list of the specified CFG file. A complete path specification is **not** supported.
KBShowOnStart=X	With this parameter a fixed specified Keyboard will be shown automatically after the start. X stands for the Keyboard-Number from the Keyboard-Config. For example, KBShowOnStart=1 always shows the Keyboard from the Cfg-Section [Keyboard_01]. If no keyboard should be visible at the start, X can be set to a invalid Number, e.g. 100 or the parameter can be left out.

Keyname	*Parameter – Info*
SysAdminPwdKB	Specifies the defined keyboard number for a password keyboard.
SysAdminMenKB	Specifies the defined keyboard number for a SysAdmin-Menu-Keyboard.
RotateScreen	With this you can specify the angle of rotation which is set by the key function VKX_KB_SCRROTATE. A maximum of four values are possible (0=Default-Systemstartup, 1=90°, 2=180°, 3=270°). For rotation minimum 2 values must be defined. For example RotateScreen=0,1 is defined, it will be toggled between these two angles. If the Key isn't existing or empty, all 4 values will be set one after another.

Pre-settings for Keyboards

These settings apply here for all following keyboard definitions, however, they can be explicitly overridden in the keyboard definition for special cases.

Keyname	*Parameter – Info*
FrameImage	*BitmapName.bmp,FrameSizeX,FrameSizeY* Bitmap for the Keyboard-Frame and to set the background. *FrameSizeX* defines the left and right distance to the keys. *FrameSizeY* defines the upper and lower distance to the keys. A keyboard without frame can be defined.
TitleBar	*0 (=Default)* With 1 the Windows title bar can here be activated for special cases.
Title	Here, any string can be defined as titles for TitleBar, e.g. 'Soft Keyboard'.
AlphaValue	*0 (=Default – no Transparency)* Here values of 10 (almost completely transparent / invisible) to 250 (almost opaque) are accepted.

Keyname	*Parameter – Info*
TransparentCol	0 (=Default – not transparent respectively invisible colour) Here, a colour can be set that is completely invisible in the output, i.e. the background is completely visible. This will, for example, be used to produce Window frames round corners or to paint the icons used regardless of the background colour of the buttons. Usually, purple is mostly used. The colours are always in RGB notation, Example: 'TransparentCol=255,0,255'
ZoomFactor	Here a maximum 10 zoom values are specified, separated by commas. The values are always specified as a percentage (e.g 200 = twice as large as normal). The starting size of a keyboard is always 100% in accordance with the key sizes specified in the keyboard definition, etc. The value 100 must not be specified separately in the Zoom list - it is automatically inserted at the beginning.
RepeatKeys	0=Off, 1=On (Default), on default the Repeat function is activated. For special Keyboards with special functions this Repeat function is mostly not desired.
AutoMove	0=Off (Default), 1=On, allows freely moving Keyboards with finger. Therefore you must press anywhere on the Keyboard and immediately start to move (wipe) it around. If this function is activated, which results in a slight delay (~ 100 ms) when releasing (or pressing) the key. If you tap the key only briefly, the key function is executed without further delay on release.
AutoSnap	0=Off, 1=On (Default), the Snap function – means the snapping on the screen corners and if there is enough space also centred on the edges – only works in conjunction with the option AutoMove=1. To trigger the automatic snapping, with a short wipe the keyboard must be moved to the right direction. Only at short wiping movements (< 500 ms) the Snap function is activated If the movement of the keyboard takes longer, you can move it to any position (without snapping). The screen sizes are not supported for snapping.

Section [VolumeTouchCtrl]

This section defines the graphics used in the touch screen volume control.

Background	The bitmap displayed as the background of the volume control.
Pointer	Bitmap used to indicate the current volume.
MuteIcon	When the speaker is muted, this bitmap will be displayed.

Section [Fonts]

In this section all fonts used with the keyboard (max. 40) will be defined.

Keyname	*Parameter*
Fontname	*font name, width, height, Text (3 cols),Shadow (3 cols), shadow offset (2 cols), format*

The various fields can be assigned as follows:

Fontname	For this keyname any name can be given, according to the use of fonts. If the font definition will be used later for the keys, the font must be specified in this section.
Font name	Name of the desired and installed Windows system font.
Width	**Width** 0 will be used as default, so the font is displayed in its natural width. For special cases the character width will be stretched or compressed.
Height	The height of the font in pixels.
Text- R,G,B	In these 3 fields, the red, green, blue values for the font colours are defined. For all RGB fields values from 0-255 allowed.
Shadow - R,G,B	In this 3 fields the R,G,B values for shadow colours are defined.
Shadow offset X,Y	Shadow offset in pixels. Setting offset to 0 = no shadow.
Format	If specified, font formatting may be set to italic (I) and/or bold (B).

Example:

```
FontDef     = Arial,     0,26,0,0,0,190,190,190,   2,2,B
FontMini    = Tahoma,    0,14,0,0,0,190,190,190,   0,0,IB
FontSymbol  = Wingdings, 0,29,0,0,0,190,190,190,   0,0,B
```

Section [Keys]

In this section the general and for all keyboards valid definition for the layouts of the single keys will be specified.

Max. 40 individual Key-Layouts can be created.

Keyname	*Parameter*
KeyName	*FontName,BMPNormal,BMPActive,TxtMode,IconMode,FrmXL,FrmYL, FrmTxtNormL,T,R,B, FrmTxtActL,T,R,B, FrmIconNormL,T,R,B, FrmIconActL,T,R,B*

The various fields can be assigned as follows:

KeyName	This KeyName can arbitrarily be named. If the key will be used later on the keyboard, the corresponding defined *KeyName* must be specified.
FontName	The Fontname from the [Fonts] section to be used.
BMPNormal	Bitmap for normal key display (not pressed).
BMPActive	Bitmap for active key display (pressed).
TxtMode	Here the orientation for the text output can be determined, per default the text will be displayed always horizontal and vertical centered in the key. L=left-aligned, R=right-aligned, T=top, B=bottom. Combinations like e.g. "LT" or "LB" are allowed.
IconMode	Orientation for Icon-Positioning, identical to *TxtMode*.
FrmXL, FrmYL	Here special frame values for the allocation of Bitmaps (*BMPNormal + Active*) can be set to create bigger or smaller Buttons. Normally it isn't necessary and the values should be left empty.

FrmTxtNormL,T,R,B	Position frame for the text output in normal keys. With the values L=Left,T=Top,R=Right,B=Bottom substituting the distances of the text output to the side edge. This is necessary so that the text will not be written over the 3D-Frame of a key by left-aligned output.
FrmTxtActL,T,R,B	Position frame for the text output at active/pressed keys. The frame for the active Display will be specified in 1-3 Pixel (depends on key size). In this case the effect of a pressed key will appear.
FrmIconNormL,T,R,B	Position frame for the Icon output of normal keys.
FrmIconActL,T,R,B	Position frame for the Icon output of active/pressed keys.

Section [Keyboard_XX]

This section provides the actual definition of the keyboards. Max. 20 Keyboards (XX = 01-20) are possible for each Cfg-File. A Keyboard Definition is only recognized as valid if at least the line *"LO1_Norm"* is defined in the section (see description below).

With horizontal screen orientation (Landscape), the default definitions are read, for example, *[Keyboard_01]*.

In vertical orientation (Portrait-Mode), first the system tries to read the keyboard definition from the

Section [Keyboard_XX_Portrait], for example from *[Keyboard_01_Portrait]*

If nothing is defined in the Portrait-Section (at least *LO1_Norm*) or the section doesn't exist, the default landscape will be used.

General Settings

Keyname	*Parameter - Info*
Name	Individual Name for the Keyboard. This name can be shown optional in the Title bar (or can be eventually be used later to control the keyboards).
DefaultKeyName	Here the KeyName layout from the [Keys] section will be specified, which will be used for all keys.
DefaultKeySize	*XLength,YLength* Standard-Key size for this Keyboard in Pixels.
Position	*XPos,YPos* Start position of the keyboard in pixels. Should the keyboard be moved by the user, this new position is stored in the registry for each keyboard and used in subsequent starts.
CloseOnClick	0=Off (Default), 1=On, this mode automatically closes the keyboard after pressing or executing a button
CloseToggle	0=Off (Default), 1=On, an open keyboard with this mode, by a repeated call (e.g. carry out by a key or a HW-Key) can be closed again.
CloseOnTimer	0=Off, Value >= 1000 specifies a timeout value in milliseconds for this keyboard. If the timer runs out, the keyboard will be automatically closed. A keystroke on the keyboard will start the timer each time again

Definition of Keyboard-Layouts

The definition of the keyboard layout is done in single lines. For each line 3-Cfg Keys are possible, according to the status of the special keys. Max. 20 key lines can be defined per keyboard.

The overall size of the keyboard is automatically calculated based on the contained buttons.

Keyname	*Parameter - Info*
LXX_Norm	Definition of the Key row XX for the normal key status.
LXX_Shift	Definition of the Key row XX for the status at pressed Shift-Key.
LXX_AltGr	Definition of the Key row XX for the status at pressed AltGr-Key.

For XX any number from 01-20 can be specified.

The Syntax is always the same, e.g.: **`LXX_Norm=Key1¦Key2¦Key3¦...¦`**

It is important that even the last keymust always must be terminated with the vertical bar character "¦".

The number of keys within a row is not explicity limited, but no more than 300 keys per keyboard can be defined. Overlapping keys will not be checked, the definition must be correct at any time.

Syntax of a Key Definition

The syntax of a key is constructed as: "**`#Command;VK_CODE;Text¦`**"

Single Fields and Commands will be separated through a Semicolon (;).

Each Key must be finished with the vertical bar character ("¦" Ascii-Code=124).

Special Commands will be introduced with the Character "**#**".

Should one of these reserved characters be indicated in the text or as a key code, the Hex-Code must be used:

- "|" = "0x7C"

- "#" = "0x23"
- ";" = "0x3B"

The fields "**#Command**" and "**Text**" are optional, so that a minimum definition can look like: "A|".

The generated Key code as well as the label of the key is defined with "A". This works with single characters only. For other special keys, special "Virtual Keycodes (VK)" are defined. (See table below).

If in a text for a key the combination "0x0A" is used, it will enforce a word-wrap in the label of this key.

Example: "Row 1 **0x0A** Row 2".

However the possibility of vertical centering will be lost if using word-wrap.

Commands for Key Definitions

Important: Position fixes and changes are evaluated only in the "LXX_**Norm**" line. The Shift and AltGr-definition position changes are ignored, as it could otherwise lead to conflicting data.

#ICON=<file>	Set Bitmap-Icon for this Key. This icon can also be used for different colour designed keyboards, it should be drawn on transparent background. If <file> has no file ending automatically „.bmp' is appended.
#KDEF=<key>	Enables a new Key-layout <key> (from Section [Key]) for this and all subsequent keys of that row. For new lines, the layout is always automatically reset to the DefaultKeyName.
#KUSE=<key>	Sets the key layout <key> (from Section [Key]) explicitly for the current key.
#KUSE2=<key>	Sets a 2nd Key-Layout for a 2nd Text.

#KXL=<Size>	Change the length of the actual Key to <Size>. <Size> is evaluated as a floating point number and returns the size relative to DefaultKeySize Example: '1' corresponds exactly to DefaultKeySize, '1.5' 150% of the size and '2' 200% of the default size.
#KYL=<Size>	Change the height of the actual key to <Size>.
#YADD=<Size>	Change the general Y-Position for the key positioning. When setting the first key, for example all following lines/keys can be deducted from the upper keys.
#SP=<Size>	Adds an appropriate distance before the current key.
#EXT=<name>	Allows the definition of several key codes with one key. For a detailed description see the following section.
#VXT=<name>	Allows the direct definition of key codes for one key. The format is identical to #EXT certainly with #VXT the data's can directly be written into the Key definition, the bypass over a Key in the [ExtendedKeys]-Section is here not necessary.
#EXEC=<exedef>	Executing of Windows-Shell-Commands. In <exedef> defined Name must indicate a definition from the Section [Execute]. In the Execute section all commands must be defined and grouped together to perform.

#KUSE2 for Creative Inscriptions

With #KUSE2 a complete 2nd Layout for a key from the section [Keys] can be set. #KUSE2 must be always at the end of the Keydefinition. The first Keytext should be explicit defined with "Text".

The fields *BMPNormal*,*BMPActive* of the KUSE2-Layouts will always be ignored.

#KUSE2 always applies only to the definition of a current key.

Example:

L05_Norm = ...|VK_F1;"F1";#KUSE2=<Layout2>;"This is the KUSE2 Text :-)"|...

L05_Norm = ...|VK_F1;"F1";#KUSE2=<Layout2>;"This is 0x0A two lines added"|...

Keycodes Definition with #EXT

If you want to assign a key with multiple codes, this is done by means of **#EXT** definition within a key definition. Using #EXT only the symbolic name of the definition is indicated. The actual definition of each key code will be executed in the section **[Extended Keys]**:

DefName1=Key1,Key2,Key3,.....

DefName2=Key1,Key2,Key3,.....

In the section a maximum of 20 different strings can be defined with multiple key codes. The maximum length of the symbolic name DefName is 50 characters. In a definition (in a row) a maximum of 100 key codes may be defined. As a separator between different codes a comma is used. To generate a comma, this can be done through the name VK_COMMA.

To assign a keyboard key with Ctrl-Alt-Delete, the following definition must be specified:

DefName=#CTRL_ALT_DEL

Before releasing a Key sequence, all other Keys will be "released" to prevent problems with mixing of keystates like Shift, Control and Alt.

Example:

```
[ExtendedKeys]
MyTestString  = This is a test!
TextExt1      = @
TestExt2      = VK_ALTGR,q
Special       = VK_ESCAPE,VK_F1, This was ESC and F1
```

[Keyboard_XX]

```
L01_Norm        =
^|#EXT=MyTestString;1|2|3|4|5|6|7|8|9
L01_AltGr       = | |#EXT=Special;²|³| | | |{|[|]|}|\|
```

Like in the above example **TestExt+2** shown, Keys can be generated through different definitions.

If you have problems with specific combinations try explicitly the respective left and right code definitions of Special Keys, e.g. VK_LCONTROL, VK_RSHIFT, etc. ...

Status keys as VK_SHIFT, VK_CONTROL, etc. ... always affect only the directly following 'real' key. For example should F5 are pressed with Shift and F6 with Shift + Control, it must be specified as follows:

```
Special = VK_SHIFT,VK_F5,VK_SHIFT,VK_CONTROL,VK_F6
```

Section [Execute]

In this Section programs for availability with Soft Keys can be defined. Using a key definition with EXEC# = <ExecDefineName>, the key can launch the defined program.

Execute Assignments are only allowed for normal user keyboards. In Soft-Keyboards, for example appears in UAC-, System- or Login-Screens, the execution of any Program is permitted. To prevent a possible mixing or problems with the KB-definition, the following settings allow defining a separate logon keyboard.

The Section Keyboard also includes other general settings and is described in SorediService documentary.

File: SoftConfig.cfg

Section: [Keyboard]

Settings: LogonKeyboardCfg=<...*Path*...LogonKeyboardConfig.cfg>

The format of the definitions in the Execute section looks like this:

ExecName = ProgramName,CallparameterDirectory

Example:

[Execute]
InternetAddress='www.google.de'
ElevatedApp=^calc.exe
Network=control,netconnections
CtrlPanel=control
AdminTaskMan=runas.exe,/user:administrator taskmgr.exe

System-Admin and Password-Keyboard

The system admin menu or keyboard is always linked with the upstream password entry.

The behaviour is defined as follows:

- If the SysAdmin-Menu is **not active** at pressing the KEY-Button, always the entry password dialog appear.
- If the SysAdmin-Menu is **active** at pressing the KEY-Button the normal Keyboards like usually will be fade in or fade out.
- If the SysAdmin-Menu will be exit, all normal open Keyboards will be closed automatically.

Both keyboards in the [Common] section of the Keyboard Config can be activated as follows:

SysAdminPwdKB=Num

SysAdminMenKB=Num

For *Num* the Number of the corresponding Keyboard-configuration will be specified.

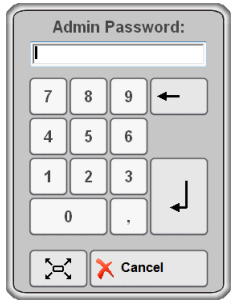
These Special-Keyboards, always should be specified after the normal Keyboards.

If the Password-Keyboard for example is defined in the Section [Keyboard_10] the above entry would look like: SysAdminPwdKB=10

Attention:

SysAdmin....KB session allows to define the keyboards that will be loaded by the microcontroller at the boot. When the **SysAdmin...KB** sessions are specified, the Login-Session will not be considered.

Password Keyboard



The Password-Keyboard can be configured like any other Keyboard.

A complete Keyboard (incl. Letters) can be configured below the entry field.

The Password-Keyboard appears after pressing onto the KEY-Button, if the SysAdmin-Menu is not open. Another push on the KEY-Button deletes the password keyboard from the screen.

When configuring the password keyboards 2 Key codes are of particular importance:

VK_ESCAPE = Escape (deletes the KB from Screen)

VK_RETURN = input (entry) ready

After receiving VK_RETURN the Password will be proved.

If the password is wrong an error message appears.

If the password is correct, the SysAdmin-Keyboard will open.

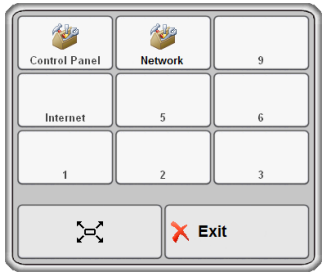
Special Settings Password Keyboard

Special Keys for configuration of password keyboards in the [Keyboard_XX] Section:

Key	Default	Info
KeyDialog=DlgInputLine	-	To enable the Password entry, this key is mandatory with the assigned registry.
KeyDlgPassword=X	-	For X any password can be defined. It is only important, that all characters of the password must be defined and shown in the Password-Keyboard.

Key	Default	Info
KeyDlgText=Text	Password Input	For Text any text can be entered, which will prompt the PID input via the input line.
KeyDlgFont=FontDef	-	Here a Font definition from the Section [Fonts] can be given. The Text from KeyDlgText is then output with this font.
KeyDlgColor=R,G,B	-	Here the Colour value of a typical Keyboard-Background-Colour should be specified. In this case the displayed Pwd-Dialog will be output in the same colour. For the silver-grey Soft-Keyboard it is for e.g.: 198,198,198.
KeyDlgPwdErr=ErrText	Invalid Password!	For ErrText any Error-Message can be defined. This will be shown after a wrong Pwd-Input in the MsgBox. A line break can be specified with '\ n'.
KeyDlgPwdBlock=X	5	For X any number can be specified. This gives a fixed waiting time in minutes. If a wrong password is entered 3 times the Password-Dialog cannot be called up for the duration of the specified waiting period. If a 0 is specified, it will not be blocked.
ExcludeChain=1	0	With 1 this Keyboard will not be considered at fading in/out of the normal Input-Keyboards.
StartupHide=1	0	With 1 this keyboard is prevented from displaying at startup - regardless of the previous state.

SysAdmin-Menu Keyboard



The Admin Menu Keyboard displays after successful password entry through the above password keyboard. For proper function this menu keyboard is configured according to the following section.

This Menu-Keyboard contains always a special Key to Exit. This Key must be defined with the Keycode **VKX_KB_HIDE**.

Example: |#KXL=1.5;**VKX_KB_HIDE**;#ICON=Cancel;"Cancel"|

During this Menu-Keyboard is open, over the KEY-Buttons of the unit all other Keyboards can fade in/out normally.

If the Menu-Keyboard will be Exit, all other „normal' open Keyboards will exit as well and after pressing the KEY-Button the Password-Menu appears again.

Special Settings SysAdmin-Menu Keyboard

Special Keys to configure System-Admin Keyboards in the [Keyboard_XX] Section:

Key	Default	Info
ExcludeChain=1	0	With 1 this Keyboard will not be considered at fading in/out of normal Input-Keyboards.
StartupHide=1	0	When 1 this Keyboard will be prevented from being shown at start – independent from the previous Status.
NormalWin=1	0	With 1 the Admin-Menu will be set in a way, that it looks like a normal Window and for example at Start/Click on a different Application moves to the background.

Key	Default	Info
PushForeground=0	1	When 1 the Admin-Menu is pevented from automatically moving back in the foreground again.
ShowInTaskbar=1	0	Because the Admin-Menu might be behind other Apps, it should be visible in the Taskbar (if shown) to activate it again.
Title=<Keybd.Title>	-	Name of keyboards which will be shown in the Taskbar.
ElevateAdmin=X	0	With this setting (ElevateAdmin=1) the Admin-Menu-Keyboard can be started in the Elevated-Mode. In this case all other Keyboards opened with KEY-Buttons are in the elevated Mode.

Otherwise, the keyboard can be configured as a normal keyboard with any buttons. This keyboard has the opportunity to create Keys with executable programs or batch jobs.

Virtual Keycodes

Special Function Codes

The following Function codes can be used to define Keys for special functions.

VKX_KB_MOVEBUT	Moving function for the Keyboard.
VKX_KB_ZOOM	Zoom function for the keyboard. By pressing this key, the next Zoom level will be activated.
VKX_KB_SWITCHTO=<kbdnum>	Switches the keyboard to <kbdnum>.
VKX_KB_HIDE	Deletes the actual keyboard from the screen.
VKX_KB_KBOPEN=<kbdnum>	Open the dedicated keyboard. The actual keyboard remains unchanged displayed (unless it isn't defined with the Mode CloseOnClick).
VKX_KB_SCRROTATE	Rotates the screen orientation by 90°. The orientation actually will not be stored. After restart the unit will display again the default orientation.
VKX_KB_UPDO	Change the Keyboard-Position from the upper edge downward and vice versa. The vertical X-Position will not change.
VKX_KB_KEYLIGHT	After pressing on this Button the lighting mode of the HW-Keys will be switched between the 4 possibilities.
VKX_KB_VOLUMEDLG	Open the dialog to set the volume.
VKX_KB_HWKEYLOCK	Blocks the HW-Toolbar completely (default). This changing will not stored.
VKX_KB_HWKEYSCAN	Turns the whole HW-Toolbar for scanning on. This changing will not stored.
VKX_KB_HWKEY_NORM	Release the HW-Toolbar for normal use.

General Keyboard Codes

VK_SEPARATOR
VK_BACK
VK_TAB
VK_CLEAR
VK_RETURN
VK_SHIFT
VK_CONTROL
VK_MENU
VK_PAUSE
VK_CAPITAL
VK_ESCAPE
VK_SPACE
VK_PRIOR
VK_NEXT
VK_END
VK_HOME
VK_LEFT
VK_UP
VK_RIGHT
VK_DOWN
VK_SELECT
VK_PRINT
VK_EXECUTE
VK_SNAPSHOT
VK_INSERT
VK_DELETE
VK_HELP
VK_LWIN
VK_RWIN
VK_APPS
VK_NUMPAD0
VK_NUMPAD1

VK_NUMPAD2
VK_NUMPAD3
VK_NUMPAD4
VK_NUMPAD5
VK_NUMPAD6
VK_NUMPAD7
VK_NUMPAD8
VK_NUMPAD9
VK_MULTIPLY
VK_ADD
VK_SEPARATOR
VK_SUBTRACT
VK_DECIMAL
VK_DIVIDE
VK_F1
VK_F2
VK_F3
VK_F4
VK_F5
VK_F6
VK_F7
VK_F8
VK_F9
VK_F10
VK_F11
VK_F12
VK_F13
VK_F14
VK_F15
VK_F16
VK_F17
VK_F18

VK_F19
VK_F20
VK_F21
VK_F22
VK_F23
VK_F24
VK_NUMLOCK
VK_SCROLL
VK_LSHIFT
VK_RSHIFT
VK_LCONTROL
VK_RCONTROL
VK_LMENU
VK_RMENU

VK_NUMRET
VK_CIRCUMFLEX
VK_SHARP_S
VK_ACCENT
VK_PLUS
VK_GER_UE
VK_GER_OE
VK_GER_AE
VK_NUMSIGN
VK_COMMA
VK_POINT
VK_SMALLER
VK_MINUS
VK_ALTGR

NOTES

Software Wedge for Windows

With the software wedge for Windows, serial data can be imported via the COM port of the docking station.

The software wedge configures itself automatically. Should you have special requirements for the further processing of the imported data, please contact our support team.

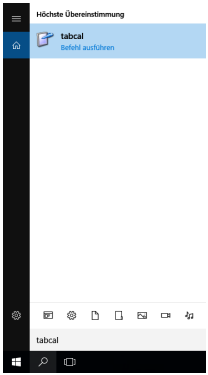
NOTES

Calibrate the Touch Screen

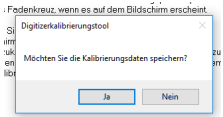
The touch screen is pre-calibrated. In case a recalibration is needed, a special software has been pre-installed and can be used from any user to retune the calibration settings.

It is recommended to connect a USB mouse and keyboard for the calibration process.

Click on the lens icon (standard Windows "Search" function) in the taskbar and enter "tabcal". The calibration programme will start. Touch the 16 points on the touchscreen marked with crosshairs one after the other.



Touch the calibration points



Save the calibration data

NOTES

Change Touch Screen Sensitiveness

It is possible to adjust the sensitiveness of the touch screen to allow the use of any kind of glove. A special software tool offers the possibility to adjust the sensitiveness thresholds and to verify how the display reacts to the touch input.

EXC7200 Testing Tool

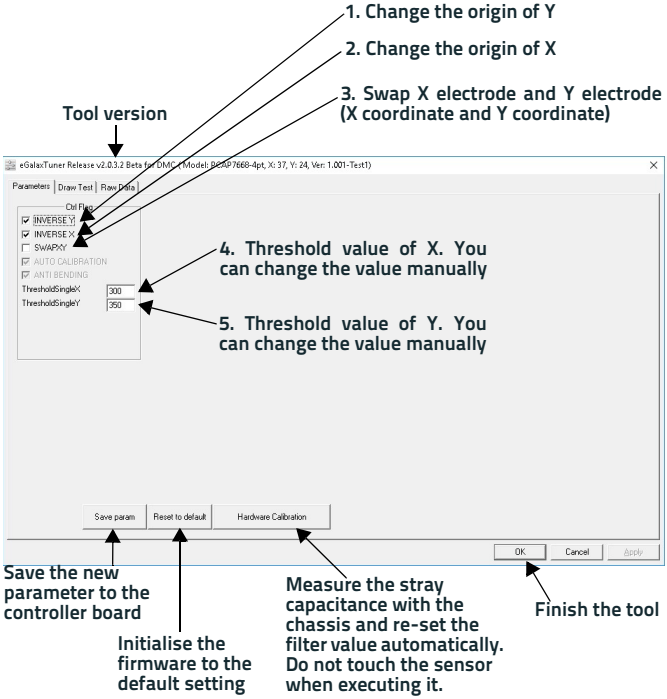
EXC7200 testing tool should be used to check the system environment conditions where the controller board and sensor are embedded in the finished product. The testing tool can also re-write a firmware in the controller board.

To prevent accidental changes to the sensitiveness of the display, we strongly suggest to unistall the eGalaxTouch application from the TaskBook after using the tool.

Parameters

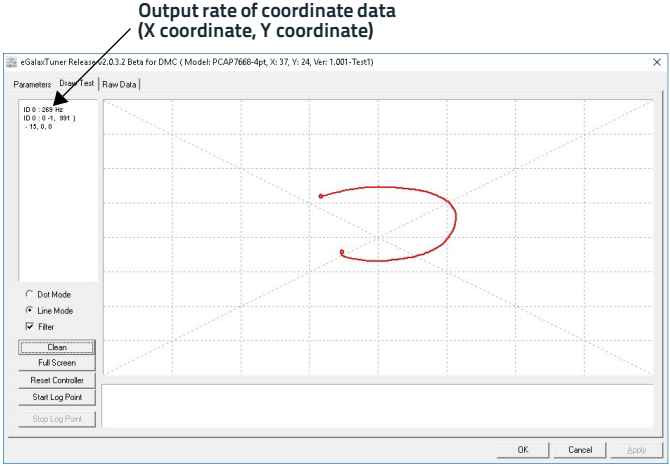
Copy the testing tool on the Desktop of your PC and connect it to the controller board by USB cable. If the tool is not on the device, copy the folder with all the files necessary to run the software on the device (e.g. desktop) using a USB stick.

Double-click eGalaxTuner_BetaRelease.exe, then the screen below is shown. The sensitivity setting is for single touch only.



Draw Test

You can draw lines to check the performance of the sensor.



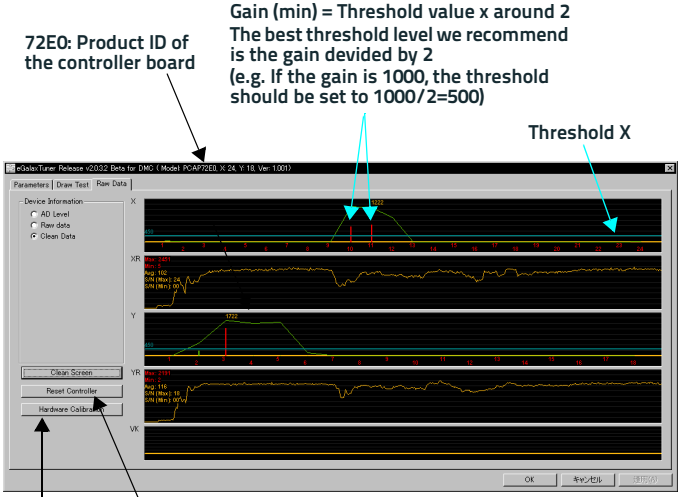
Raw Data

You can check the sensitivity and noise level.

Clean Data

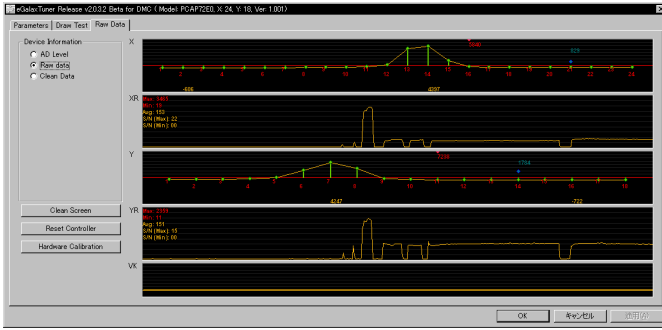
This shows the sensitivity (gain) after filtering

Sensitivity, threshold and noise level should be checked on this screen.



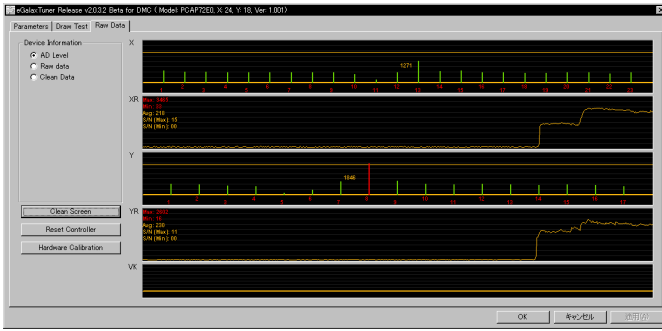
Raw Data

This shows the sensitivity (gain) before filtering.



AD Level

On this screen you can check the electrodes which are affected by external noise.

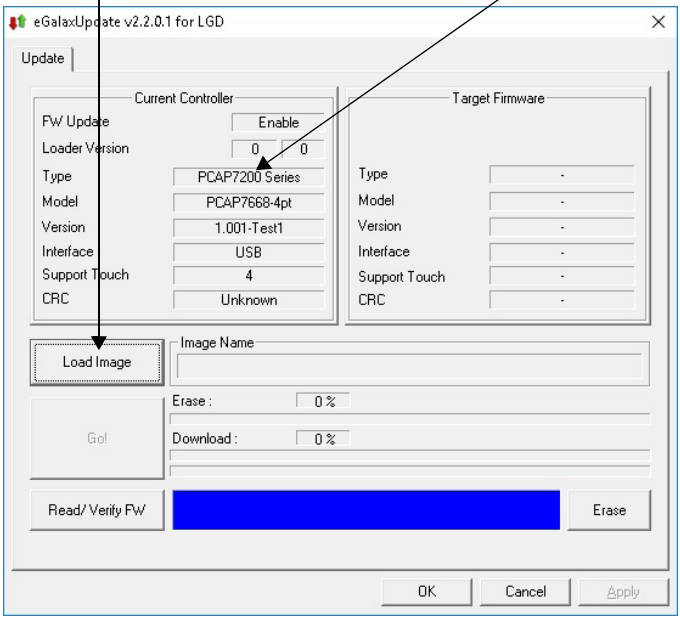


Update

This tool is to re-write the firmware in the controller board. Double-click eGalaxUpdate.exe.

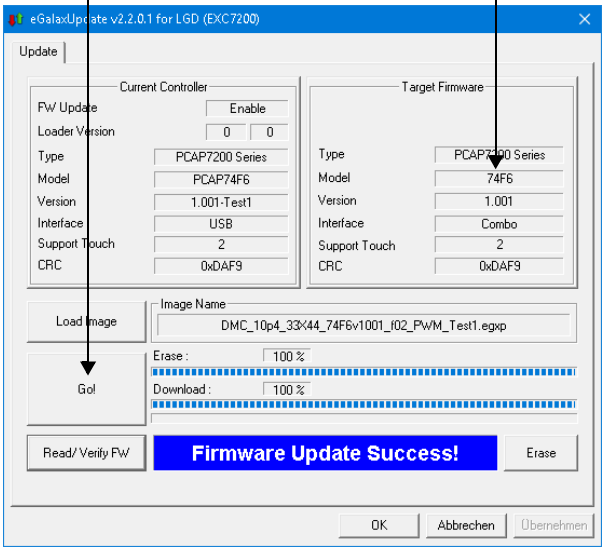
Select and load the firmware which you want to re-write

Current Product ID

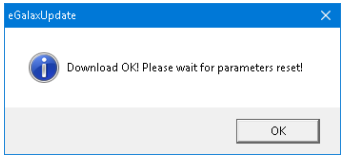


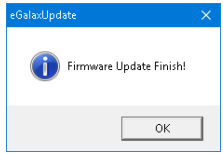
Start to re-write the firmware

Product ID after the re-writing



Finish the re-writing successfully





NOTES

Maintenance and Cleaning

The TaskBook series' devices can be operated maintenance-free.

The product must be completely disconnected from the power source before maintenance or cleaning.

The product must not be cleaned with compressed air or a high-pressure cleaner. To clean the casing or the touch screen, use a damp, non-scratching cloth.

Cleaning the touch screen

To clean the touch screen, use a cloth and a little soap or window cleaner.

Do not use cleaning agents containing acids, sulphur or ammonia. Do not use abrasive or scratching agents or wipes. Do not use aggressive industrial cleaners.

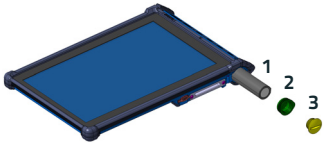
Cleaning the Device

Cleaning of the device is recommended if there is extreme dust or dirt build-up. The thermal conductivity properties for cooling the device must not be impaired.

It is best to use window cleaner and a soft cloth for cleaning.

Replacing the Internal Power Pack

The internal power pack's performance decreases over time. If its capacity is no longer sufficient for trouble-free operation, the power pack must be replaced. A new battery pack can be purchased as spare part.



To remove the internal battery, first switch off the device. The yellow cover (3) can then be unscrewed counter-clockwise with a coin. Now remove the sealing grommet (2) shown in green. The power pack (1) can now be removed and replaced with a new one. The sealing grommet and the sealing cap must then be properly reinstalled.

Disposal Instructions

Information on the Return of Batteries According to Battery Act

Many items from our assortment contain batteries or power packs. As such, we would like to draw your attention to the fact that batteries or power packs must not be disposed of as household waste, in accordance with the Battery Act (BattG). As a consumer, you can return used batteries free of charge to municipal collection points or to retail outlets.

Or, you can give us back the batteries purchased from us after use.

Batteries containing harmful substances are marked with the symbol of a crossed-out bin. This includes the chemical name of the pollutants: Cd or NiCd stands for cadmium, Pb for lead and Hg for mercury.

Notes on the Disposal of Electrical and Electronic Equipment

According to the law on the placing on the market, take-back and environmentally compatible disposal of electrical and electronic equipment (ElektroG), electrical and electronic equipment may not be disposed of as household waste. As a consumer, you can return old electrical equipment free of charge to a municipal collection point.

NOTES

Appendix 1 - Docking Station

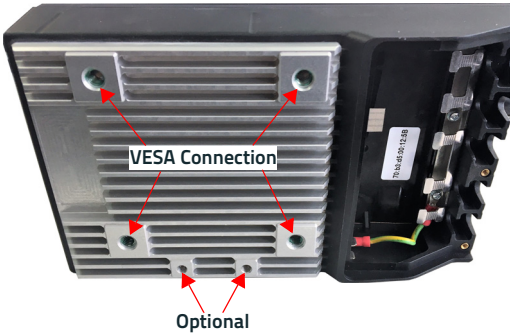
Installation and Interfaces

CAUTION

The installation of the docking station as well as the opening of the cable cover, or the attachment of lines to its interfaces, may only be carried out by qualified personnel.

Docking Station Installation Options

The docking station has a VESA connection (VESA MIS-D 75: 4x M6) on the rear side. The 4 M6x10 screw points have a hole spacing of 75x75 cm. This allows installation with VESA-compatible brackets.

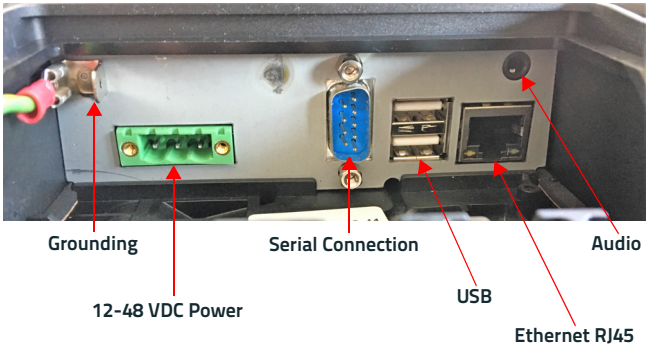


To install optional accessories, e.g. scanner bracket, 2 M5x5 screw points are available.

The device is cooled internally and externally. The heat generated in the device is dissipated through the aluminium heat sink. The device must be installed in such a way that air can flow around the heat sink's cooling fins. If the Docking Station is mounted in a way that doesn't allow a proper heat dissipation, the device may overheat, causing the temperature protection circuit to operate and switch off the device.

Interfaces, Docking Station 12/48 VDC

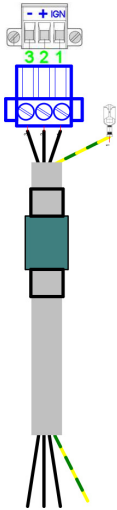
Applies to accessories 94ACC0214, 94ACC0216, 94ACC0218, 94ACC0220, 94ACC0222, 94ACC0224.



12-48 VDC Connection

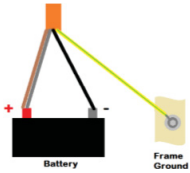
With the 12-48 VDC power connection, the TaskBook is charged through the on-board power supply. The internal power supply is

electrically isolated. The wires are already connected with the provided cable. The wires of the 3-pole input connector must be connected to DC Plus, DC minus and ignition. The ground (yellow - green) is led in the cable and must be connected to the ground contact.

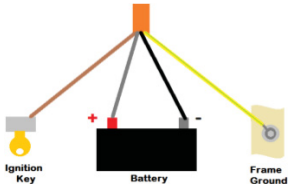


1. IGN Ignition grey
2. + positive charge brown
3. - negative charge black
4. GND Mass yellow/green

Autostart

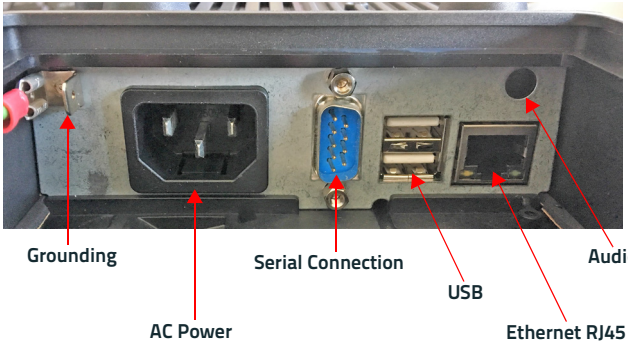


Start with the ignition key



Interfaces, Stationary Docking 110/230 VAC

Applies to accessories 94ACC0215, 94ACC0217, 94ACC0219, 94ACC0221, 94ACC0223, 94ACC0225.



AC connection

The Docking Station comes with a 3-pole plug on the left side. Use a certified cable IEC 320 C13 to provide electrical connection to the Docking Station. The internal power supply has a limit of 60W..

CAUTION

Use only certified or Datalogic approved cables.

Connections available on Docking Station

Ethernet

The device has a 10/100MBit/s Ethernet interface.

Left LED off:	No connection (no link)
Left LED on:	Connection present, no activity
Left LED flashing:	Connection present, activity present
Right LED off	10 Mbit/s
Right LED, yellow:	100 Mbit/s

The maximum cable length of 100m, as per specification, can be limited depending on cable quality (CAT5, CAT6 etc.), cable laying or external interference. A protected line must b e used.

USB

USB peripherals can be connected to the two USB 2.0 ports. A maximum of 500 mA is available per connection. If the current consumption is higher, the supply is automatically deactivated.

Audio connection (optional)

The cable cover loudspeaker can be connected to the audio connector (optional) with a 3.5 mm jack plug. As soon as the TaskBook is connected to the docking station, it automatically switches to the playback device.

Serial connection (optional)

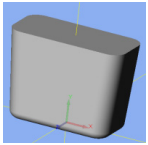
The device has a serial interface to connect devices with an RS 232 connection.

Cable Cover Installation

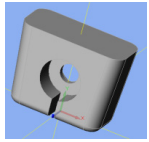
CAUTION

To ensure water and dust resistance, cables and empty holes have to be fitted with the dedicated rubber grommet. If the cables are not properly fastened or if any empty holes haven't been protected, you may expose your Docking Station to shock, short-circuit and other problems that may damage the device. Without a cable cover, dust and moisture can get into the device. Inspect the seal to ensure it is undamaged and intact.

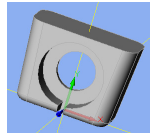
Grommet Release



Grommet without cable

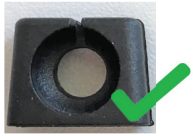


Grommet for cable up to 6 mm

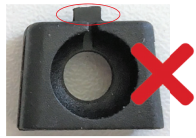


Grommet for cable from 6 mm

To correctly install the cable, please choose the appropriate grommet. Remove the grommet from the bridge so that no overhang remains.

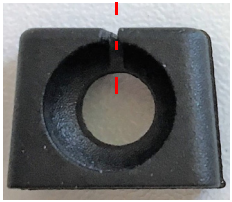


Correctly released grommets (no overhang)

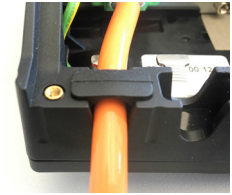


Incorrectly released grommets (overhang present)

Cable Installation



Cut the grommet at the marked point using a side cutter.



Insert the grommet over the cable and press it into the recess of the docking station.

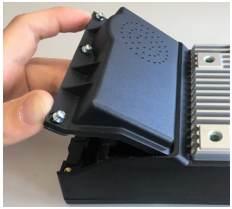
To ensure that the cables won't be accidentally extracted from their socket, you can fasten the cables to the available anchors with a plastic bend, as shown in the picture below.

The cable is fixed with a cable connector on the cord grip.
Seal unused recesses with closed grommets.

NOTE

We strongly suggest to fasten every cable to an anchor.

Cable Cover Installation



Insert the back cable cover in the dedicated slot of the Docking Station.

Press down the cable cover, making sure that it remains in the groove.

Fix the cable cover using the 3 screws supplied and a Torx 8 screwdriver. Tightening torque **1 Nm**.

Appendix 2 - Handgrip

The handgrip is an extension module for the TaskBook. It has a slot specifically designed to host an external hot swappable battery (not included with the handgrip). Models 94ACC0211 and 94ACC0212 also include a built-in 2D Imager, respectively with Standard and Auto Range optics.

Out of the Box

The handgrip package contains:

- 1 Handgrip
- 1 Handstrap (preassembled).

Replacement - Handgrip Power Pack

The power pack in the handgrip can be changed at any time, even during operation. As soon as a charged external battery (94ACC0226) is inserted into the handgrip, the TaskBook's internal power pack will be charged.

To remove the external power pack, press the two black buttons on the side of the handgrip simultaneously. The green arrows indicate their position.

The power pack will slide out a little. To completely extract the battery, push the metal lever in the middle of the battery (see the green circle in the picture below) and pull out the battery.

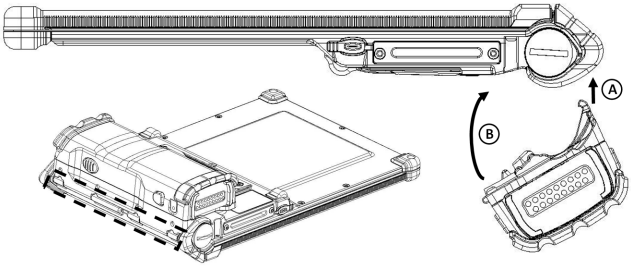
The power pack can now be removed from the handgrip in the direction of the arrow and be swapped with a new one.

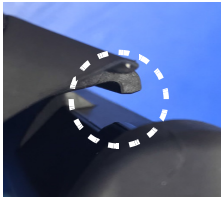
Attach the Handle to the TaskBook

NOTE

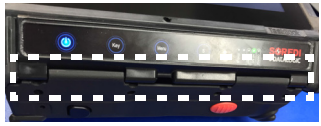
The handgrip can be connected to the TaskBook in any moment, when the device is either turned ON or OFF.

To connect the handle with the TaskBook 7’/10’, place the hooked side of the handgrip against the cylindrical side of the TaskBook in order to create a 45° angle (A). Then turn the handgrip towards the TaskBook (B) and push it until it clicks and the TaskBook emits a beep.



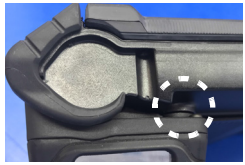


1. Hook into the hinge.



2. The handle must be completely hooked into the TaskBook.

3. Turn the handle towards the TaskBook until it's pressed against it. A small gap remains between the magnets.



4. Push the handle against the TaskBook until it clicks. No gap is left between the magnets.

Barcode Scanning with the Handgrip

The barcode scan works only when the handgrip is properly attached to the TaskBook. The handgrip doesn't allow any feature when used stand-alone.

To scan barcodes with the handgrip you have three options:

- Press one of the red side buttons in the handgrip (this allows the scanner to be triggered with the thumb as well as the index finger)
- Press any button on the TaskBook buttons bar.
- Enable the always scan mode.

When the code is scanned, the reader illuminates the symbol.

The color and the pattern of the spot depend on the range of the scanner:

- The Standard Range scanner projects a white square with a red aimer.
- The Auto Range scanner projects a light red square with a red dot in the middle.

Standard Range

Auto Range

If the scan has been successful, the light spot disappears and the good read beep plays. The Standard Range scanner projects a green spot onto the barcode image.

Scan with the Key Bar

The scanner can also be triggered by pressing any button on the TaskBook (A) buttons bar. To activate this function, press the menu button to open the software menu and then press the scanner button on the left (B).

The menu bar will disappear and the message "Scan function for key bar ON" will appear. You can now scan with the S, menu or key buttons on the key bar. Scanning via the red buttons on the handgrip is still possible.

Adjust the Handstrap

The handstrap, which is attached to the handle, can be adjusted individually for each person. Open the velcro and adjust it to your hand.

Configuration Using Barcodes

You can change the settings of the 2D imager by scanning programming labels. For details on additional methods of programming, refer to the Handgrip Configuration Manual, available on the Datalogic website.

NOTES

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to www.datalogic.com.
For quick access, from the home page click on the search icon  , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.
Hover over the Support & Service menu for access to Services and Technical Support.

Warranty Terms and Conditions

The warranty period starts from the date of shipment from Datalogic for the subsequent 12 (twelve) months unless otherwise stated by Datalogic for the specific product at the time of purchase ("**Warranty Period**").

DATALOGIC

www.datalogic.com

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