



DIVUS TOUCHZONE

TZ07 - TZ10 - TZ15 - TZ19

User Manual - english

Version DTZ2.18-3.4 – 12/18

GENERAL INFORMATION

DIVUS GmbH
Pillhof 51
I-39057 Eppan (BZ)

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Please read the manual before beginning and keep the manual for later use.

The manual has been conceived and written for users who are experienced in the use of PCs and automation technology.

Our General Terms and Conditions apply, which can be downloaded here:




<https://www.divus.eu/en/general-conditions>

This version of the manual is based on the following version(s):

- TOUCHZONE image R2.18
- TOUCHZONE image R3.4
- DIVUS LAUNCHER v. 1.1.3 rev. 128
- DIVUS VIDEOPHONE (1.0) v. 1.0.1 rev. 68
- DIVUS VIDEOPHONE 4 v. 4.2.3 rev. 122
- DIVUS OPTIMA v. 1.1.1 rev. 88
- DIVUS KIBRO v. 1.4 rev. 1423
- DIVUS MÜLLPLANER v. 1.0 rev. 9
- DIVUS IP CAM VIEWER v. 1.0 rev. 16
- DIVUS SCREENCLEANER v. 1.0.1 rev. 9

Through most of the manual the Android version 4.2.2 is used in screenshots and examples. Android version 5.0.2 will be discussed in a separate chapter.

CONVENTIONS

[KEYS]	Keys that are to be pressed by the user are given in square brackets, e.g. [CTRL] or [DEL]
COURIER	On-screen messages are given in the Courier font, e.g. C:\>
COURIER BOLD	Keyboard input to be made by the user are given in Courier bold, e.g. C:\>DIR).
"..."	Names of buttons to be pressed, menus or other onscreen elements and product names are given within double quotes. (e.g. "Configuration").
PICTOGRAMS	In this manual the following symbolic are used to indicate particular text blocs.
	Caution! A dangerous situation may arise that may cause damage to material.
	Hint Hints and additional notes
	New New features

The terms "DIVUS TOUCHZONE" and "DIVUS TZ" or simply "TZ" all point out the same product.

SAFETY INSTRUCTIONS

The present operating instructions contain those safety instructions that are required to safely operate the machine.

All persons working with the machine must heed the present operating instructions, especially the safety instructions.

In addition, all local stipulations governing the prevention of accidents must be heeded.

Only trained and authorized personnel may **INSTALL AND OPERATE** the machine.

PROPER APPLICATION: The machine has been designed for application inside the building automation and must not be used to control security functions.

The machine has been built using state-of-the-art technology and all applicable safety regulations. However, damage or negative effects to the machine or other material cannot be excluded if the machine is operated.

The machine meets the requirements of the EMC guidelines and of the harmonized European standards. Modifications to the machine hardware may affect the system's EMC compatibility.

Without special protection measures, the machine must not be used in EX areas and in plants that require special monitoring.

Danger of explosion. Do not expose the buffer batteries to heat. Serious injury may be the result.

The operating voltage of the machine must be within the specified range! The product label provides the required information.

STANDARDS

The DIVUS TOUCHZONE meets the following guidelines and standards:

Low Voltage Directive 2014/35/EU (ex 73/23/CEE – 93/68/CEE – 06/95/CE)

Standard to which conformity is declared:

EN 50491-3:2009, EN 60950-1:2006+A11:2009+A1:2010+A12:2011 Safety

EMC Directive 2014/30/EU (ex 89/336/CEE – 92/31/CEE – 93/68/CEE – 04/108/CE)

Standard(s) to which conformity is declared:

EN 50491-5-1:2010, EN 50491-5-2:2010 Conducted & Radiated Emissions

RoHS2 Directive 2011/65/EU (ex 02/95/EC)

Standard(s) to which conformity is declared:

EN 50581:2012 Restriction of hazardous substances

The installation and wiring instructions contained in this documentation must be heeded. Conformity is indicated by the attached CE label.

The EC conformity statements can be obtained from:

DIVUS GmbH
Pillhof 51
I-39057 Eppan (BZ)



Regarding Directive 2012/19/EU (ex 2002/96/EC) waste electrical and electronic equipment has to be collected separately and is not allowed to dispose as unsorted municipal waste.

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1 Product description

1.1 FRONT VIEW – DIVUS TOUCHZONE

DIVUS TOUCHZONE



TZ10 portrait mode



TZ15 landscape mode

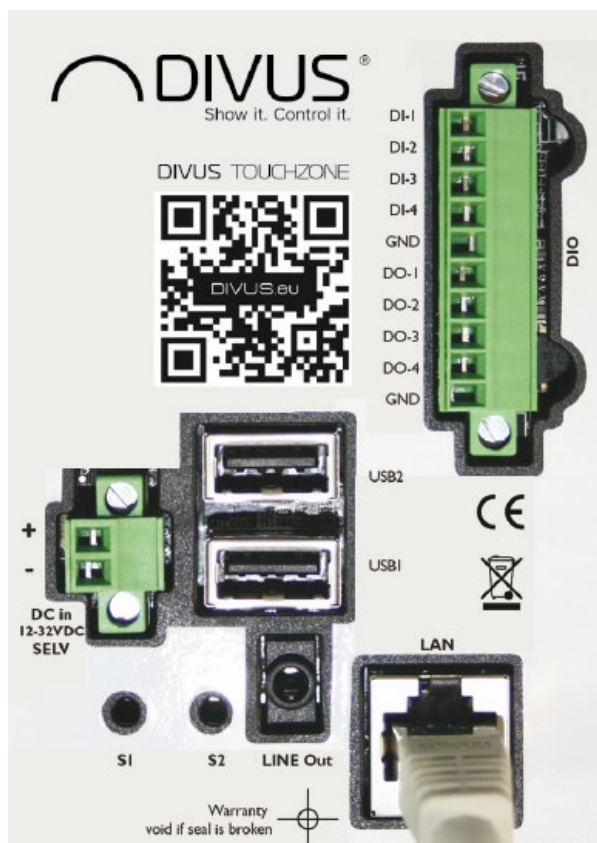


TZ07 portrait – TZ10 – TZ15 – TZ19 landscape mode size comparison

1.2 INTERFACES – DIVUS TOUCHZONE

1.2.1 REAR CONNECTIONS:

The DIVUS TOUCHZONE has various connection possibilities on its back side. All necessary interfaces can be found there.



Rear Connections:

- DIO (digital inputs/outputs)
- DC in
- USB1
- USB2
- LINE Out
- LAN – PoE+
- S1
- S2

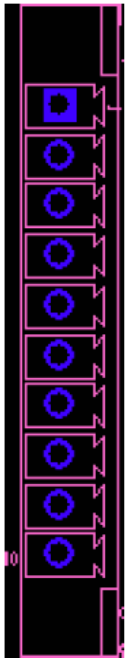


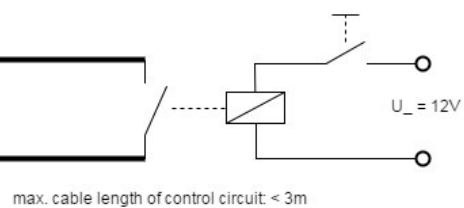
ATTENTION! Only the TZ07, TZ10 and TZ15 versions support PoE+. The TZ19 version must be powered through the DC in port.



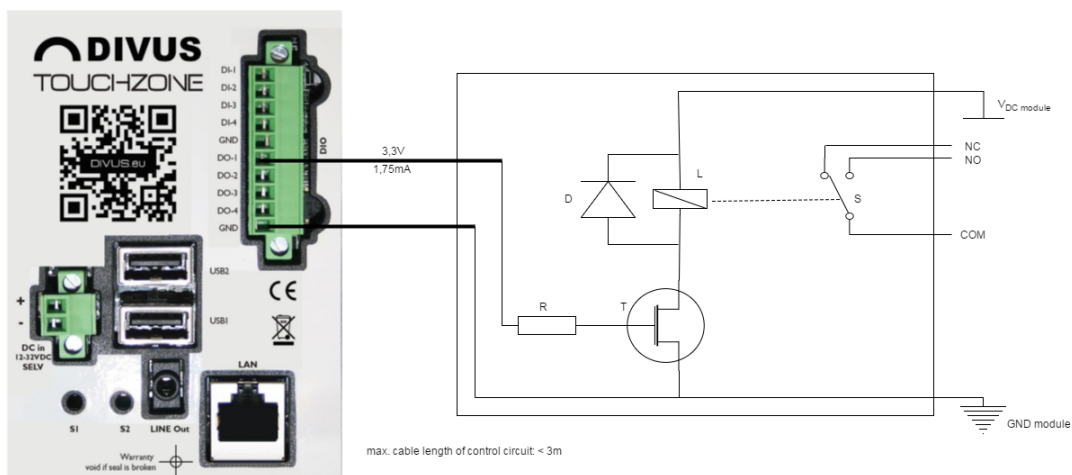
ATTENTION! Although the TZ07, TZ10 and TZ15 versions support hybrid power supply by PoE+ and DC in at the same time, only one power input should be used at a time.

1.2.1.1 DIO

Pin No	Signal	CN14
1	DI-1	
2	DI-2	
3	DI-3	
4	DI-4	
5	GND	
6	DO-1	
7	DO-2	
8	DO-3	
9	DO-4	
10	GND	



The digital outputs are driven by low 3,3V voltage with 1,75mA current. To be able to use the digital output to switch any kind of load a relay-module with transistor pre-amplifier is required; an example schematic of a connected transistor pre-amplified relay-module is shown below.



ATTENTION! The components of such a transistor pre-amplified relay-module vary depending from the used power supply and manufacturer.




NOTE: Please always remember that the ports are DIGITAL in- and outputs! Their exact specifications can be found in the table below. Furthermore it is recommended that both in- and outputs are always connected through a relay circuit.

Voltage output HIGH (= on)	3,3 V	Voltage input HIGH (= on)	1,65 – 3,6 V
Voltage output LOW (= off)	0 V	Voltage input LOW (= off)	0 V
Output current	1,75 mA		



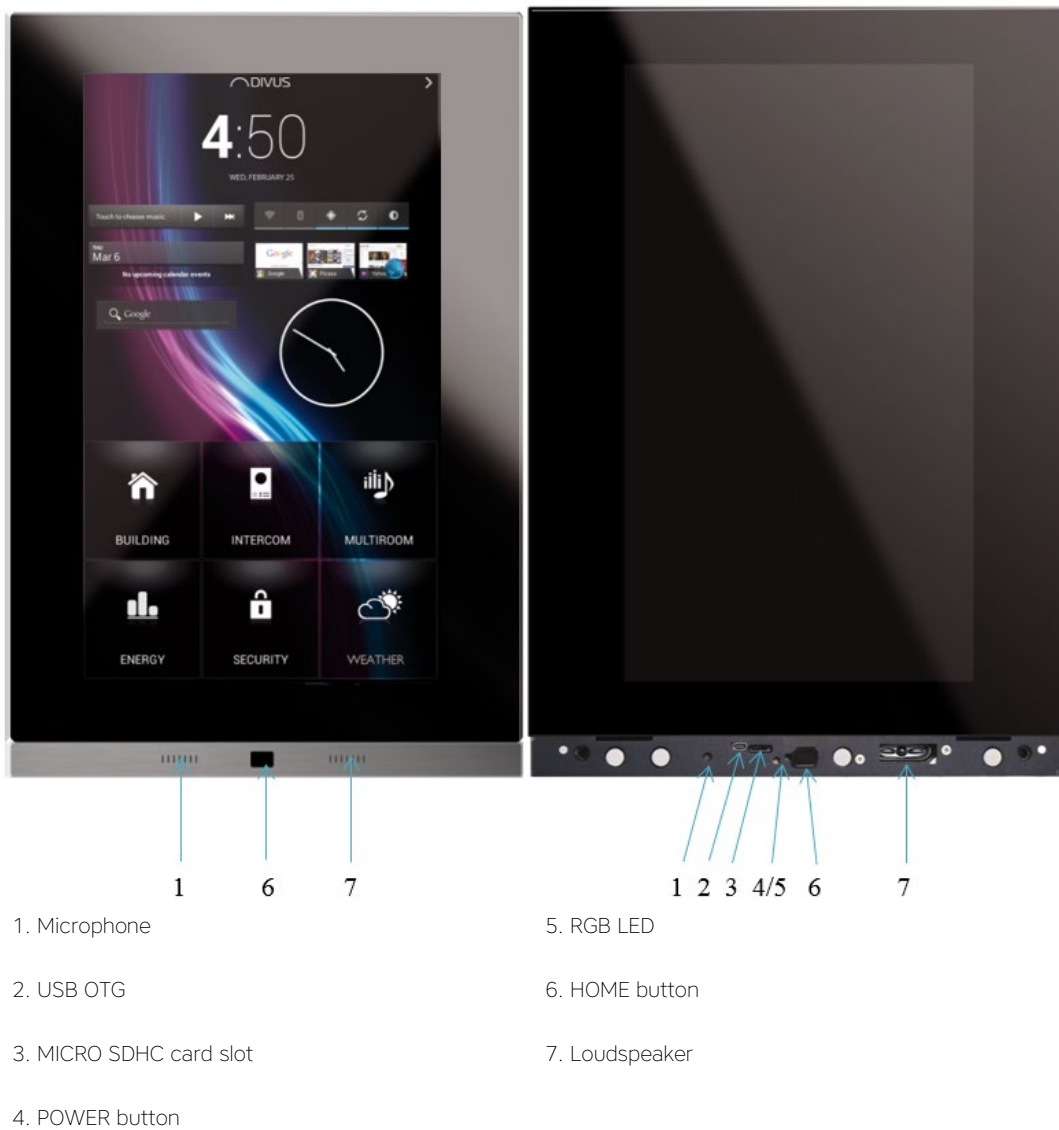
NOTE: In order to ensure the correct functionality of the digital inputs the signal must last at least 500ms.

1.2.1.2 DC IN

Pin No	Signal	CN6
1	V _{in} +	
2	V _{in} -	

1.2.2 FRONT CONNECTIONS

DIVUS TOUCHZONE offers important front connections for sensing and expansion too.



NOTE: with applied design cover, only the touchscreen and the HOME button are available while operating the device. Moreover you can use the soft keys, which are shown in the navigation bar of DIVUS TZ.

1.3 **PRODUCT CONTENTS**

Hardware:

- DIVUS TOUCHZONE
- Fixing set to be used with a wall mount kit
- Retention screws
- Aluminum front cover

Software:

- Pre-Installed, fully functional operating system

Documentation:

- Technical manual
- Quick Start Guide
- Warranty conditions
- Version overview

2 Commissioning

2.1 GROUNDING

The following must be heeded to ensure that all electrical interference is safely absorbed:

- Connect the metallic wall mount kit with a central grounding point using the shortest possible distance.
- Make sure that the connection between the unit and the grounding point has the lowest possible impedance.
- All data cables connected to the unit must be shielded.
- The shields must be grounded at both ends. A low-impedance connection must be established between the linked units. High compensation currents over the cable shields caused by potential differences must be excluded.
- Use a green-yellow cable with a minimum cross section of 2,5mm² for ground connection.

2.2 COMMISSIONING

The power supply of the TOUCHZONE is provided either through "Power over Ethernet (PoE)" - IEEE 802.3at - (TZ07, TZ10 and TZ15) or through the DC input on DC in plug (TZ07, TZ10, TZ15 and TZ19). Using DC input, the used power supply needs to provide safety extra-low voltage (SELV) and has to be compliant to EN60950-1 par.2.5 and EN61558-2-6 or equivalent. The TZ07 and TZ10 versions must be powered through a supply providing max. 15 VA under normal operating conditions. For all versions you must have the means for disconnection incorporated in the fixed wiring. Have the appliance connected to the mains using a device that allows the appliance to be disconnected from the mains at all poles with a contact opening. If using PoE+, ensure that your switch, injector or power adapter is fully PoE+ compliant.

Power consumption of the device is defined in the technical documents.



ATTENTION! Pull out the power plug before opening the unit. Check all cable connections before commissioning the system. Make sure that all voltages and signals meet the specifications.



ATTENTION! Only the TZ07, TZ10 and TZ15 version support PoE+, the TZ19 version must be powered through *DC in*.



ATTENTION! Although the TZ07, TZ10 and TZ15 versions support hybrid power supply by both PoE+ and *DC in* at the same time, only one power input should be used at a time.



NOTE: DIVUS offers a warranty of 24 months after shipment (valid from the date of delivery) if not stated otherwise for the DIVUS TOUCHZONE. The warranty is only valid if all transportation takes place with the original package of the product, including all shock absorbing elements.

Every repair shipment has to be approved by the technical support. Contact us under support@divus.eu. On that occasion you also get all necessary information, as well as the accompanying letter "repair request".

The original packaging has to be used for all transportations, including the one back to the distributor or manufacturer in case of repair. Otherwise DIVUS can't give any guarantee for the product. Any damage occurring to the product if incorrectly packed will be charged to the client. Furthermore in such a case DIVUS will charge an additional fee for packing.

For repair processes the "repair request" document has to be compiled and returned with the product to allow us to guarantee an efficient service and a two week repair time.

For technical reasons only complete products can be returned for repair.

2.3 INSTALLING THE DIVUS TOUCHZONE

Installing wall mount kit

The wall mount box may be installed in a cut out in the wall, in a wooden structure thick at least 1.5 cm or in a drywall construction. The cut out has to respect the sizes specified in the technical data and has to be at least 8 cm deep.

In the wall cut out, the box can be built in or it can be screwed on in a piece of furniture. It is important that the fore edge of the wall mount kit is flat and horizontally to the surface of the wall or the piece of furniture.

The wall mount kit offers cable access on all four sides.

Installing TZ

Switch off the system/plant supply voltage. Connect the power and controlling cables. After connecting the magnet to the back of the mount box, the TZ is put into the wall mount box and is fixed with the screws included in the packing. Now, you can install your design frame with slight, even pressure.



ATTENTION! Unauthorized changes or modifications to the TZ configuration may result in permanent damage to the system or its functionality. Only authorized trained personnel are allowed to make any modifications.



ATTENTION! If you need to remove the design frame, extract it from the mounting horizontally. One-sided traction or slanted installing may damage the frame.



ATTENTION! In order to be able to dissipate the warmth produced by the equipment, it must be guaranteed that the temperature within the mounting box does not exceed **45°C**. Under normal conditions this is given with an ambient temperature of up to **30°C**. If these values are exceeded, additional cooling has to be provided.

The equipment must be installed vertically, i.e. the front plate must be in an angle of 90° to the base plate. Installation has to comply to HD 60364-4-41 or other national prescriptions.

3 Operating System

DIVUS TOUCHZONE is delivered with the Android operating system in version **4.2.2**. This operating system, used on countless smartphones and tablets, offers nearly ungated capabilities and possibilities through its Open Source core and all the manufacturer-specific applications. General information about the Android operating system can be found under www.android.com.



NOTE: The Android operating system 5.0.2 and its differences will be discussed in a separate chapter.

Beneath the standard applications delivered by the default operating system (for example gallery, music player, ...), the following applications are installed by DIVUS:

- Google Play Store (previously known as Android Market)
- DIVUS LAUNCHER
- DIVUS OPTIMA
- DIVUS VIDEOPHONE
- DIVUS VIDEOPHONE 4
- DIVUS KIBRO
- DIVUS MÜLLPLANER
- DIVUS IP CAM VIEWER
- DIVUS HEARTBEAT
- DIVUS SCREENCLEANER
- System-Update
- TeamViewer QuickSupport

The single applications are explained in more details in the following chapters.



NOTE: Most of the screenshots shown within this manual are coming from devices in LANDSCAPE mode; the PORTRAIT mode typically offers the very same functionality, changes are limited to the graphical layout.

As in the previous version, also the new TZ series offers a navigation bar at the bottom of the display, which should simplify and fasten the navigation on the device. Beneath the HOME button, this navigation bar contains all the soft keys required for the navigation within the Android system. Find below a screenshot of the navigation bar:



The 6 keys within the navigation bar from left to right are:

- VOLUME DOWN
- BACK
- HOME
- RECENTS
- VOLUME UP
- MENU

The VOLUME DOWN key lowers the volume of the DIVUS TZ and shows the current volume through a corresponding slider element, which also permits to access further volume settings.

The BACK key (depending on the shown app) permits to return to the previously shown page or to close the currently opened app.

The HOME key has the same functionality as the hardware HOME button and brings you back to the first page of the DIVUS LAUNCHER. The previously active app is brought to the background and continues running (the HOME button / key does NOT terminate running apps).

If the HOME key is pressed for a longer time, depending on the configuration, additional actions (e.g. the access to Google NOW) become available.

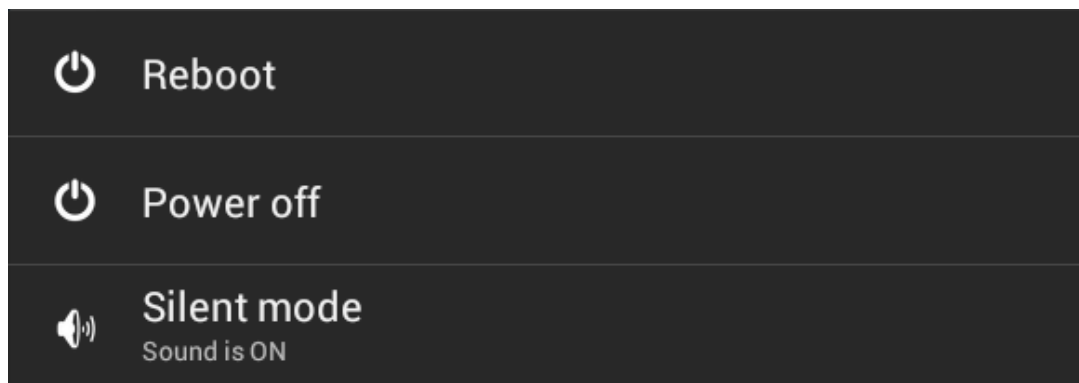
A click on the RECENTS key shows the recently opened apps, which allows a quick switching between different applications and – via swipe gesture – also the closure of apps.

The VOLUME UP key increases the volume of the DIVUS TZ and – like the VOLUME DOWN key – shows the current volume through a corresponding slider element, which also permits to access further volume settings.

The MENU key functionality depends on the currently shown app and – if available – shows additional menu and configuration options. The following screenshot shows an example of such a menu:



Furthermore, also the *MENU* key supports long-clicking: in this case it will show another pop-up window which permits to turn off or reboot the DIVUS TZ:



ATTENTION! Please ALWAYS use this menu in order to shutdown DIVUS TZ. An abrupt removal of the power supply can interrupt running processes and cause the malfunction of different apps.

3.1 FEATURES

The pre-installed DIVUS apps provide the user with various functions to control its TOUCHZONE and home automations system. These features include, among others:

- Customization and configuration of the DIVUS TOUCHZONE.
- Access and control over the installed apps.
- Pre-installed DIVUS OPTIMA app for building automation.
- Pre-installed DIVUS VIDEOPHONE app for interaction with intercom systems
- Pre-installed DIVUS KIBRO app for internet navigation
- Pre-installed DIVUS MÜLLPLANER app to manage household waste.
- Pre-installed DIVUS IP CAM VIEWER app to visualize IP cameras.
- Pre-installed DIVUS HEARTBEAT app, used to access reports of DIVUS HEARTBEAT.
- Pre-installed DIVUS SCREENSCLEANER app, used during screen cleaning

In order to get the new features, please check that your DIVUS TZ has loaded the latest software version. An update of your DIVUS TZ to the latest operating system version can be requested using the following form:

<http://www.divus.eu/index.php/en/softwareupdate-divus-touchzone>

The single apps instead can also be updated directly through the Google Play Store (therefore all the new features can be obtained simply by updating the apps through the Play Store). If your account is correctly registered, you should automatically get a notification when new versions are available.

3.2 HARDWARE INTERFACES

DIVUS TZ offers different kinds of interfaces as well on the rear as on the front side. All interfaces are integrated and functional on Android level and can be accessed from custom applications through corresponding libraries. The following list shows the interfaces currently used by the applications of DIVUS, as well as the interfaces currently free and therefore usable in custom apps. In case you should need the function libraries for your own customizations, please refer to the technical support of DIVUS:

Front side:

- Microphone: Among others used by the DIVUS VIDEOPHONE app.
- USB-OTG: Works as well as USB host as also as USB device, which means that either USB devices (like USB storages, USB mice etc.) can be connected or DIVUS TZ can be used as mass storage on a PC.
- MicroSD card slot: Through the settings of DIVUS LAUNCHER connected microSD cards can be mounted/unmounted.
- RGB-LED: Is used by the DIVUS LAUNCHER for signalling purposes.
- Speaker: Among others used by the DIVUS VIDEOPHONE app.

Rear side:

- DIO: Among others used by the DIVUS VIDEOPHONE app.
- USB1+2: For the connection of USB devices (like USB storages, USB mice etc.).
- Line out: Can be used to forward the audio signal to a HIFI system (internal audio signal is disabled)



NOTE: USB SUPPORT: Generally all USB devices compatible with Linux operating systems that are using the default drivers (HID devices, mass storages) can be used in combination with DIVUS TZ.

3.3 GOOGLE PLAY STORE

Additional apps can be purchased and installed from different sources. Details on the first steps with the Google Play Store can be found on the following web page:

<http://support.google.com/googleplay/>

Notes regarding the use of the Play Store on DIVUS TZ:

1. The Play Store requires an active internet connection. If DIVUS TZ is used without internet access, The Play Store is either automatically hidden or shows a corresponding warning message.
2. In order to be able to use the Play Store, you have to check that your DIVUS TZ shows the correct date and time settings. If these settings are not correct, the Play Store cannot connect to its servers and will show no contents. The time/date settings can be configured through the settings page of the DIVUS LAUNCHER.
3. In case no app download should be possible, please empty the cache of the *Play Store* through the settings of the DIVUS LAUNCHER (*Advanced - Manage Applications - All - Google Play Store*).
4. Please note that you will not be able to install all apps on the Play Store onto the DIVUS TZ. The Play Store is filtering apps according to certain criteria (for example display size, permissions, additional functions like gravity sensor, GPS, phone etc.). If a device doesn't support a required criterion, the app will not be shown on Play Store. So if you shouldn't be able to see an app on DIVUS TZ that on your smartphone is visualised normally, it could be that DIVUS TZ doesn't fulfil one of the criteria required by the app to be launched correctly. In this case you can try to get in contact with the developer of the app in order to understand the missing criteria and eventually find a solution for being able to run the app on DIVUS TZ.



NOTE: The Play Store can only be used with a valid Google-account.

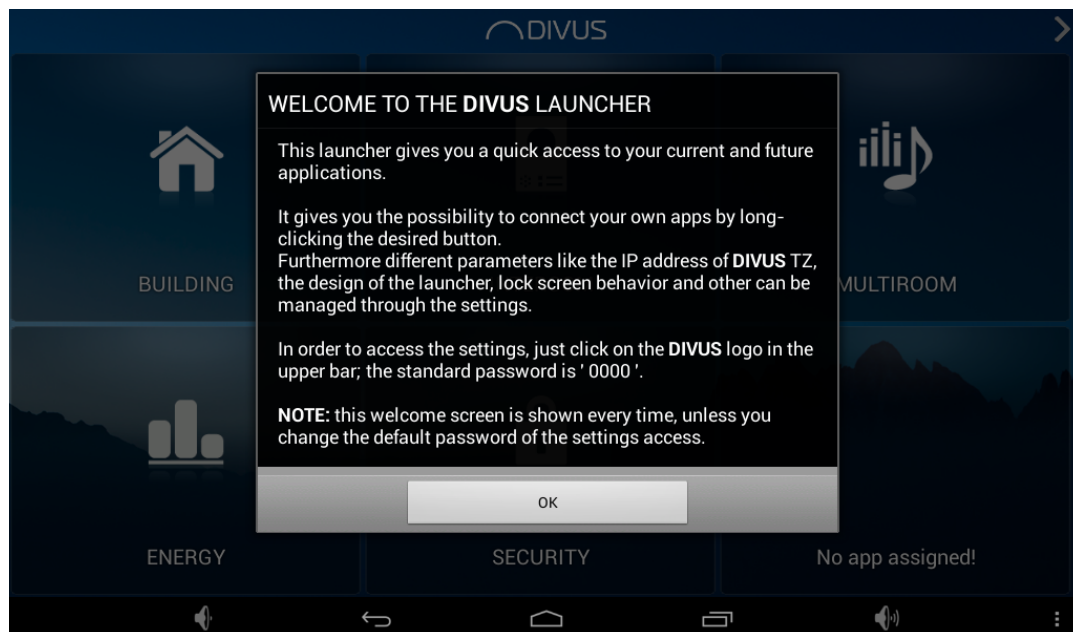
3.4 DIVUS LAUNCHER

3.4.1 INTRODUCTION

The DIVUS LAUNCHER app is the main app of DIVUS TZ. Launcher apps in the Android world generally determine start screens or graphical interfaces that hide the original menu of Android. In this way the user should not be overwhelmed by the open architecture of Android, but should be able to focus on the most important functionalities.

Exactly this concept is followed also by the DIVUS LAUNCHER app, which shows a simple grid of 6 fields that permit a quick access to the most important functions / apps. Naturally it is possible to create more than one launcher page, with the possibility to change between them using a swipe gesture. Furthermore the DIVUS LAUNCHER offers a set of settings which should make the configuration of the DIVUS TZ easier.

After the first start of DIVUS TZ, the DIVUS LAUNCHER will present the following start screen:

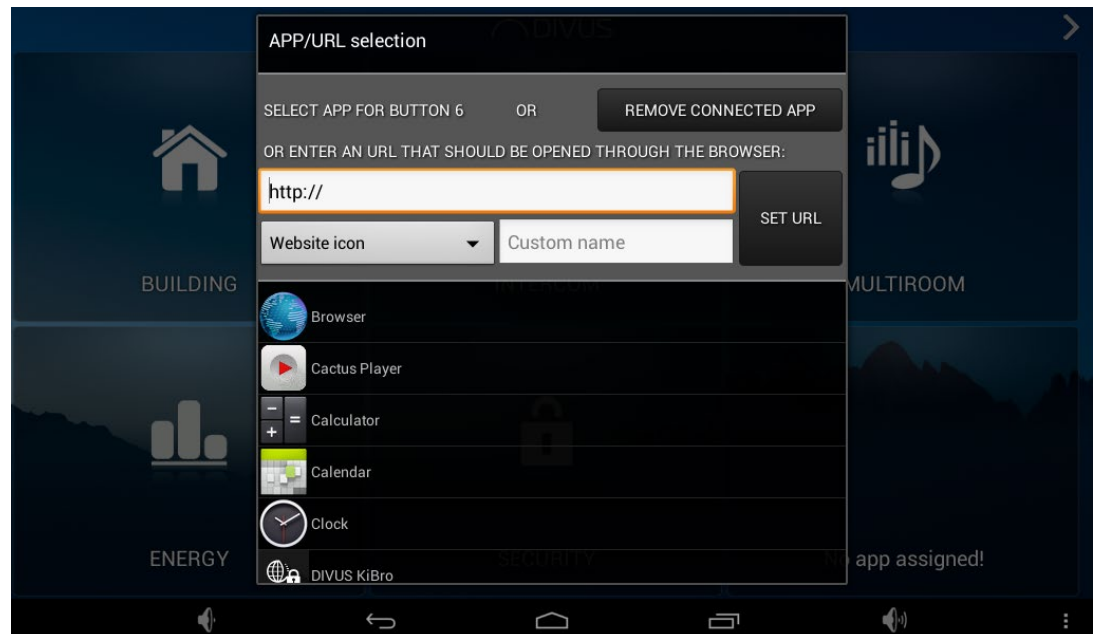


The welcome message, as indicated also within the message itself, will be shown as long as the default system password that protects the access to the settings page (0000) isn't changed. By confirming the message you will see the first page of the launcher, which on 5 of the 6 available fields will already show preconfigured icons for Building, Intercom, Multiroom, Energy and Security.

All these fields are not configured on delivery and therefore must be connected to the desired app using the long click function. The "Building" field, for example, can be connected to the pre-installed DIVUS OPTIMA app, in case you are using DIVUS KNXCONTROL as building management system; or you could connect the DIVUS VIDEOPHONE app to the "Intercom" field if you want to use the panel for door communication.

It's the same with the other pages of the launcher; also their fields are empty. A simple click on an empty / not connected field shows an info message that the field must first be connected to an app via long click function before it can be used. If therefore a long click is executed on one of the fields, a list of the apps present in the device will be shown, which gives the possibility to select the desired app and connect it to the field. The selected app in the connection will be shown at the corresponding position in the launcher. Naturally the long click can be executed also on already connected fields in order to remove the connected app or to connect a different app.

The following screenshot shows the app selection popup, which is shown after executing a long click on one of the launcher buttons and which is used to link the desired app:



As visible in the screenshot, instead of an app it's also possible to connect a URL to a launcher button. In this case, enter the desired target URL (e.g.: <http://www.divus.eu>) and click on "Set URL". From the drop-down list you can set which icon to show for the connected URL in the corresponding launcher button. By default the favicon provided by the website itself is used, alternatively a predefined icon provided by DIVUS (e.g. Alarm) can be chosen. Similarly, with the text field you can also change the label which is displayed: if left empty, the default title of the linked URL is used, else the text inserted by the user is displayed.

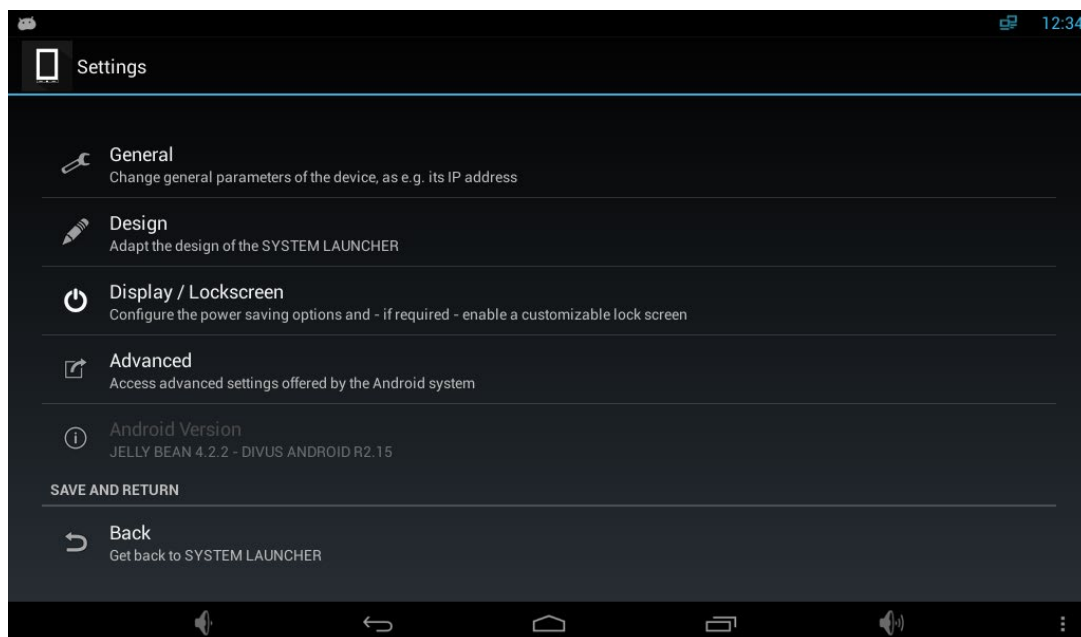
If afterwards the corresponding launcher button is clicked for the first time, a dialog will appear which permits to select the browser to be used to show the URL (e.g. default Android browser, Google Chrome, DIVUS KiBro ...). In this dialog you can also specify whether to always use the same browser or to keep asking for the selection. The URL field is only enabled if DIVUS TZ has an active network connection.



NOTE: When linking an app to a launcher button, the button will display the app icon as symbol and the app name as label. As visible, the first 5 fields use customized icons. Other fields will simply show the icon of the connected app. If also the first 5 fields should show the original icons instead of the customized ones, this may be achieved by changing the corresponding parameters in the settings page of the launcher, as explained more in detail on the following pages.

The settings page is accessed by clicking on the DIVUS – Logo in the upper bar of the launcher and you will have to insert a password before accessing the settings (default password is 0000).

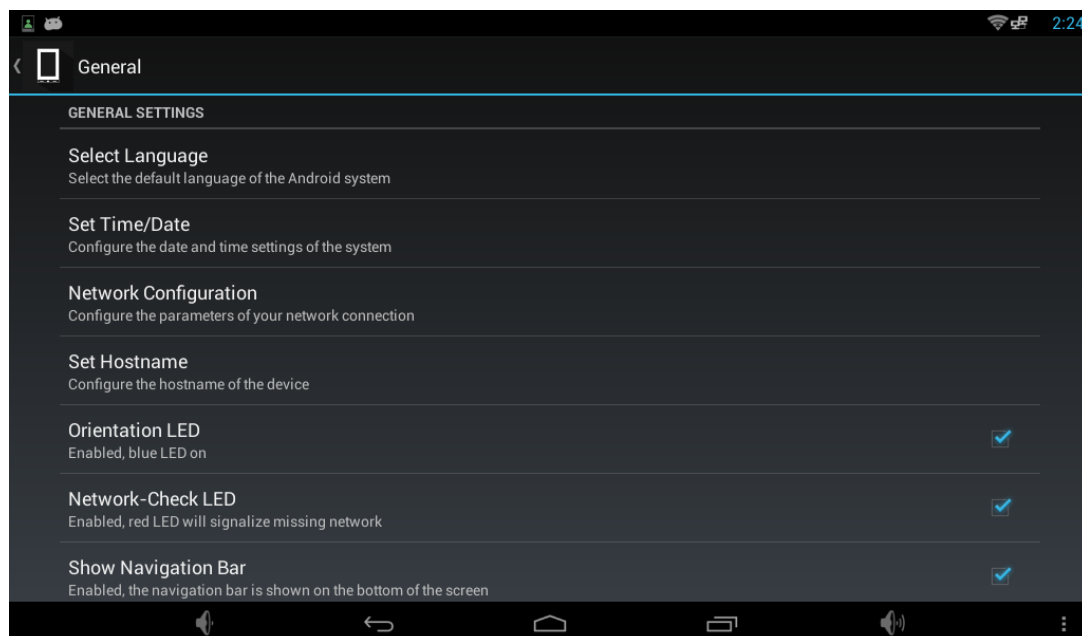
The configuration page shows the following contents:



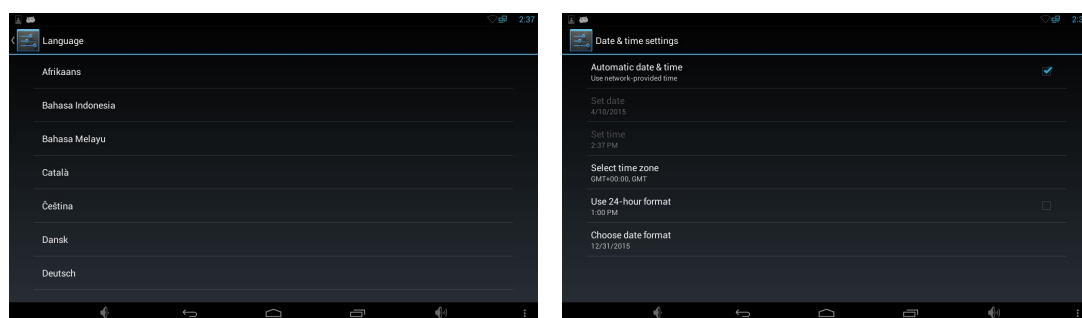
The available settings are structured in 4 categories, which will be explained in the following chapters of this manual. Furthermore, this page shows the Android version currently installed on the device. By clicking on the last entry you will leave the settings menu and return to the launcher.

3.4.2 "GENERAL" SETTINGS

The following screenshot shows the different settings / entries available in the first category:



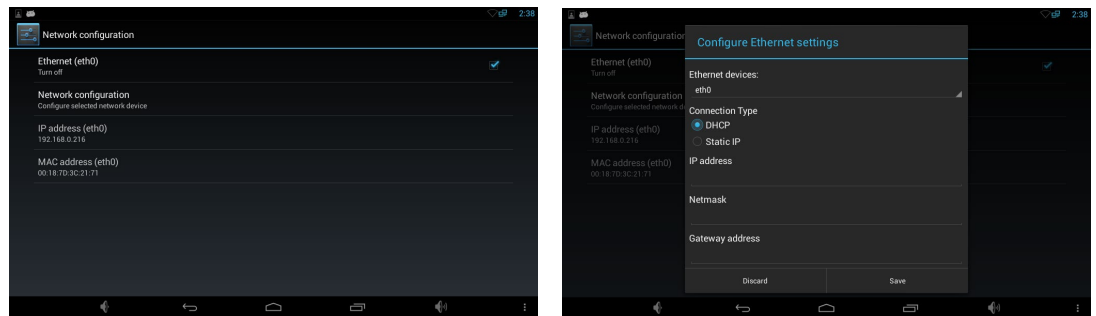
The first two entries simply redirect to standard Android settings and allow to change the language of the DIVUS TZ and to set the date and time correctly:



DIVUS TZ offers all the languages contained in the Android repertoire. Nevertheless, the applications of DIVUS are limited to the languages German, Italian and English at this time. Further translations are added continuously. If a non-supported language is selected, those applications will be shown in English.

The date and time settings can be configured as well manually as also automatically via network and are necessary if you want to use the Play Store. It is recommended to use the automatic synchronization, which is also activated per default. Only the time zone must always be set manually.

The next entry deals with the network settings of DIVUS TZ:

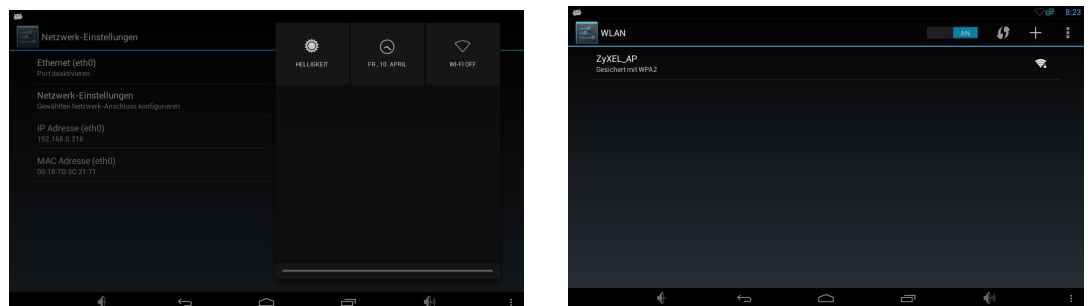


DIVUS TZ supports the use of a static IP address as well as the usage of DHCP. Depending on your network, these parameters must be configured correctly in order to connect the DIVUS TZ with your network and also with the internet (check out the screenshot to the right, which shows the configuration menu for the LAN port). If you are unsure about the correct configuration, please refer to your network administrator.



NOTE: When the connection has been established correctly, in the upper right corner of this configuration page a blue symbol showing 2 PCs will be shown. Only when this symbol is active, the DIVUS TZ is correctly connected to your network. If the symbol is white, no connection is established.

The DIVUS TZ supports also Wi-Fi-based connections. In order to enable this support, you will have to acquire the DIVUS Wi-Fi stick (not included in the product contents) and connect it to the device. Afterwards you can access the QuickSettings menu (can be accessed within the DIVUS LAUNCHER settings by swiping downwards, starting from the upper right corner of the status bar) and select the option "Wi-Fi". The following menu permits to enable the Wi-Fi function, scan for available networks and configure the connection:



NOTE: on successful connection, in the upper right corner of the status bar the typical blue Wi-Fi symbol will be shown. Only if this icon is shown and blue, the device will be able to communicate through Wi-Fi. DIVUS TZ now also supports parallel Wi-Fi and LAN connections and offers the default Android settings for the configuration.

The next setting allows changing the hostname of the device, default is "android-<ID>". The hostname will show up e.g. as the device name when performing a network scan, so changing this name allows for a better identification of the various devices inside a network. When the hostname is edited, a reboot is required in order to take over the new value. If an empty string is set as the hostname, then the default value is used.



ATTENTION! This option is available only from image version R2.11 onwards, on previous versions the setting will either not work or not be available! Additionally, the hostname can contain only letters, digits, and '-' with a maximum length of 16 characters.

The next 2 settings refer to the control of the RGB-LED of DIVUS TZ. The first option permits to use the blue LED as orientation LED. When the checkbox is enabled, the LED will be continuously on and can be seen as operating LED or as orientation LED by night.

The second option instead handles the control of the red LED and uses it to signal the current network state. If DIVUS TZ is not connected to a network and the checkbox of this option is enabled, the red LED will be turned on. As soon as the device connects to the network, the LED will turn off. Therefore, the option „Network-Check LED“ acts in the same way as the symbol of the network connection described in the note above. Naturally, by disabling the corresponding checkbox, also this functionality can be disabled.

NEW

NEW: The new TOUCHZONE series provides no more opening for the LEDs within the design frame. Nevertheless, the LEDs will be kept enabled per default, in order to provide visual feedback during the first operation / installation of the device.

The next setting is named „Show Navigation Bar“ and permits to enable / disable the navigation bar visible at the bottom of the screen. At delivery, the navigation bar is always active, since the contained soft keys could be necessary when configuring and installing DIVUS TZ. A deactivation of the navigation bar can be useful if a kiosk operation or a “real” full-screen visualisation of apps is required.

The option “Logo Color Changes” permits to signal certain events within the device quickly and easily by changing the colour of the DIVUS logo within the LAUNCHER interface. This option is disabled by default; if enabled, the following events can be signalled:

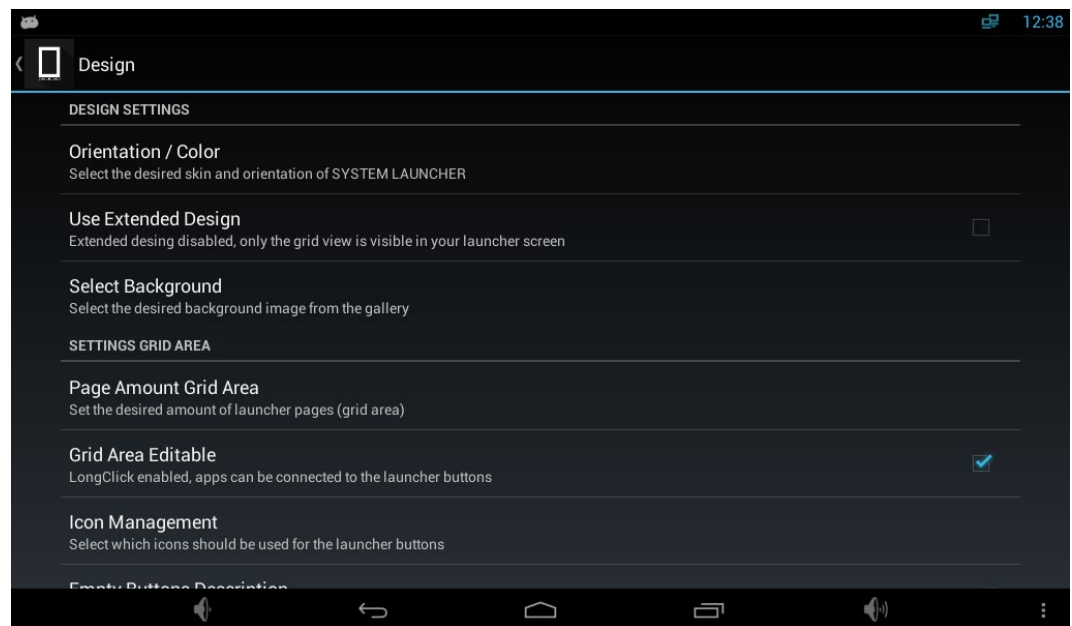
- Logo white: Default, no events occurred
- Logo yellow: The volume has been either set to 0 or muted
- Logo red: The device has no active network connection

If more than one event occurs contemporarily (e.g. mute and no network), only the latest event will be signalled through the logo colour.

In order to return to the main menu, you can either use the BACK key in the navigation bar or you can simply click on the symbol beneath the title of the current menu (in this case “General”). This will work in every setting sub-menu.

3.4.3 “DESIGN” SETTINGS

The following screenshot shows the different settings / entries available in the second category, which permit to adapt the design and the graphical representation of the launcher app:

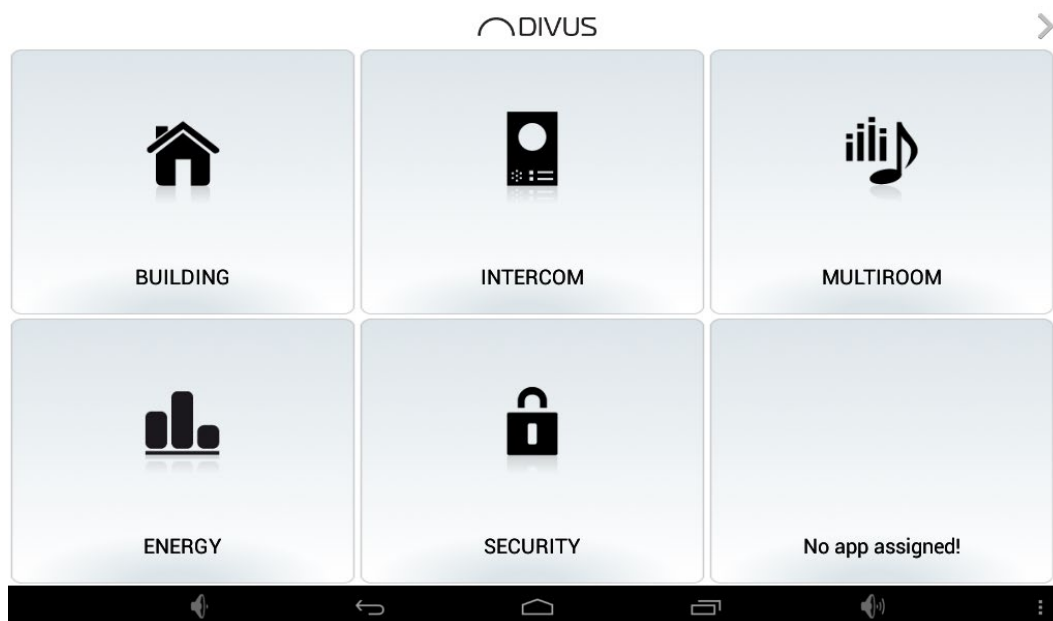


The option “Orientation / Color” offers 6 parameters:

- Dark Design – Portrait
- Dark Design – Landscape
- Gray Design – Portrait
- Gray Design – Landscape
- Bright Design – Portrait
- Bright Design – Landscape

At delivery, the design will already be set according to the order information; through this popup window it will be possible to change it also in a second moment.

The following screenshot shows an example of the launcher with the design “Bright Design - Landscape”:



The menu entry “Use Extended Design” permits to enable the widget view of the **DIVUS LAUNCHER**, which opens a range of new possibilities and was completely redesigned in the latest version. If this option is enabled, the default grid view is reduced and will occupy only around 1/3 of the screen; the remaining area can be filled with so called widgets (find some information here: http://en.wikipedia.org/wiki/Software_widget). Find below a screenshot of a launcher page with extended design and some widgets:



The widget area itself is not scrolled vertically anymore, but – as typical for the most launcher apps – divided in pages that can be swiped horizontally. In this way, an optimal usability concept is created: meanwhile on the right side you can swipe horizontally through the classic grid view and can get your quick access to the most important

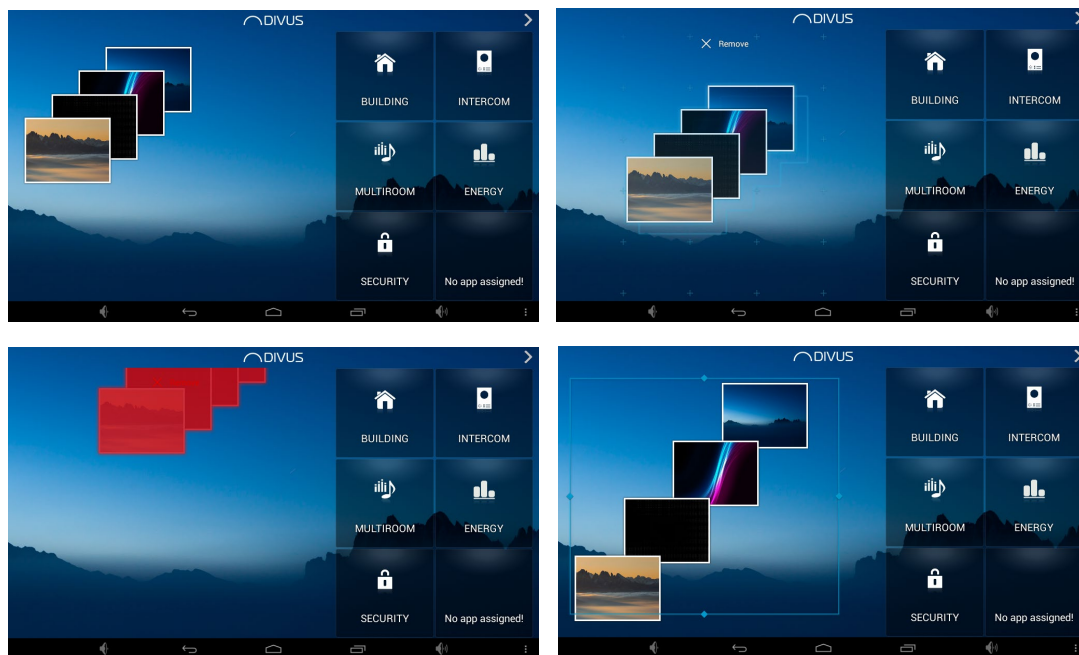
apps, in the very same way you can now swipe through the pages of the widget area on the left, which can be filled with any kind of information, thanks to the variety of the available widgets.

The connection of the widgets is as easy as the connection of apps to the launcher fields: just click and hold (= LongClick) on a free space within the widget area and a context menu will become available, where you can select and add the desired widget. The widget will be placed on a free position, using its default size. If the currently shown widget page offers not enough space for the widget, a corresponding warning message will be shown and the widget must be included on another page.

Once the widget has been inserted, it is still possible to modify it:

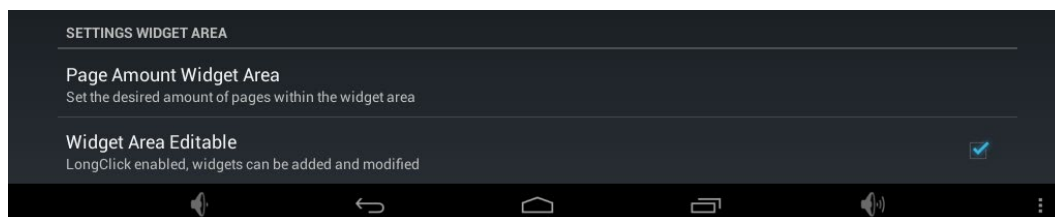
- You can move and therefore reposition the widget by using Drag&drop; simply start with a LongClick on the widget, drag it to the desired position and drop it there. In order to simplify the positioning, while dragging the widget a grid is shown.
- As long as you are dragging the widget, you can also move it from one widget page to the next one; simply drag the widget to the border of the widget area and the page will automatically be changed.
- Furthermore, while dragging the widget also an "X" will be shown on the upper border; if the widget is dragged on this symbol and dropped there, it will be removed from the widget area.
- If you execute a LongClick on the widget without changing its position, you can resize the widget; after the LongClick, the widget will show blue squares on each side, which permit to adapt the size of the widget.

The following screenshots show different states of the widget area (upper left: default state, upper right: widget during repositioning, lower left: widget before removal, lower right: widget while adapting its size):



NOTE: at delivery some widgets will already be available per default. Additional widgets can be installed through the *Play Store* and in most cases will come directly together with other applications that you install. So be sure to check out new widgets after any additional installation.

After the activation of the widget area (through the setting „Use Extended Design“), the option menu will show 2 additional parameters:



The option “Page Amount Widget Area” permits to change the amount of pages available within the widget area. You can select a value between 1 and 10 pages, the default value is 5.

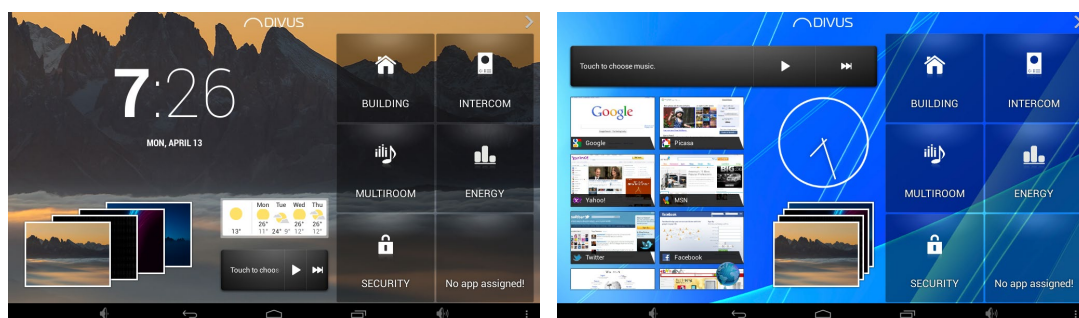
The option “Widget Area Editable” instead permits to lock the widget area; if this setting is disabled, no widgets can be added / changed / removed. This permits to pre-configure the widget area and afterwards lock it in order to prevent modifications.

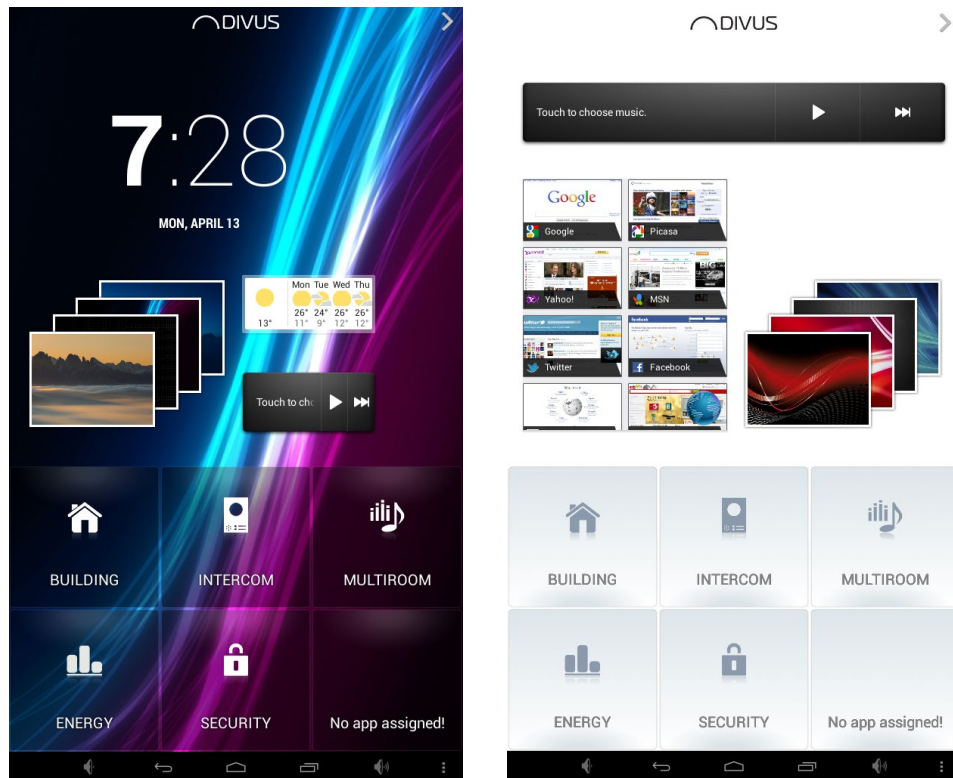
Now let’s jump back to the previously described options: the third menu point regarding the adaption of the launcher design is called “Select Background” and permits to select a background picture, which will be added beyond the launcher elements and will be shown in a semi-transparent way. This permits to highly customize the DIVUS LAUNCHER in a very easy way. At delivery, DIVUS TZ already contains a set of background pictures, which can be freely used. The background feature works for both the traditional and the extended design.



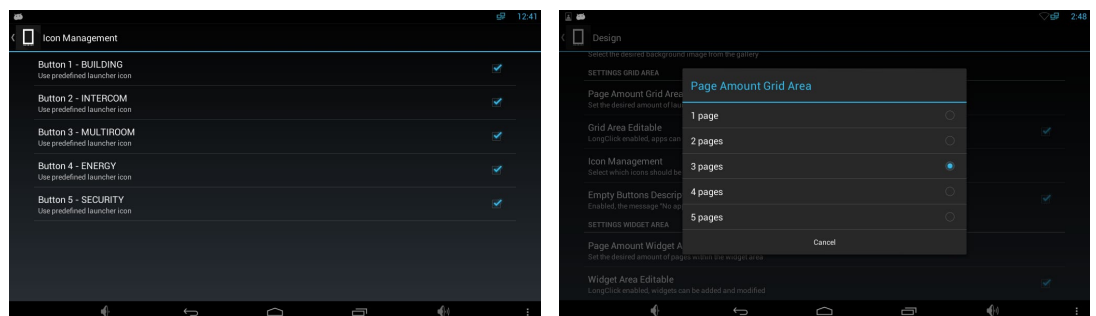
NOTE: in case you will use your own pictures, please take care on the colour selection of the pictures. If for example you are using pictures with bright contents, please enable one of the BRIGHT launcher designs, since in that case the symbols and labels will be shown in black. If instead you will be using dark pictures, use one of the DARK launcher designs, in order to get white symbols and labels.

The following screenshots show different design versions of the launcher app:





The following 4 entries of the configuration window allow a further customization of the launcher, or better, of its grid view:



The entry „Page Amount Grid Area” (screenshot on the upper right) allows the definition of the maximum amount of launcher pages. When using maximum configuration (5 pages), it will be possible to connect 30 apps to the DIVUS LAUNCHER. If only 1 page is selected, the launcher becomes a static page and the swipe gesture to change between pages will be disabled.

The checkbox „Grid Area Editable” can be used to disable the corresponding function within the launcher; in this way, no new apps can be connected to the fields of the grid view of the launcher. This means that the final user will not be able to customize the launcher, but will only be able to access the apps previously connected by the system integrator. Therefore, grid and widget area can be locked independently now.

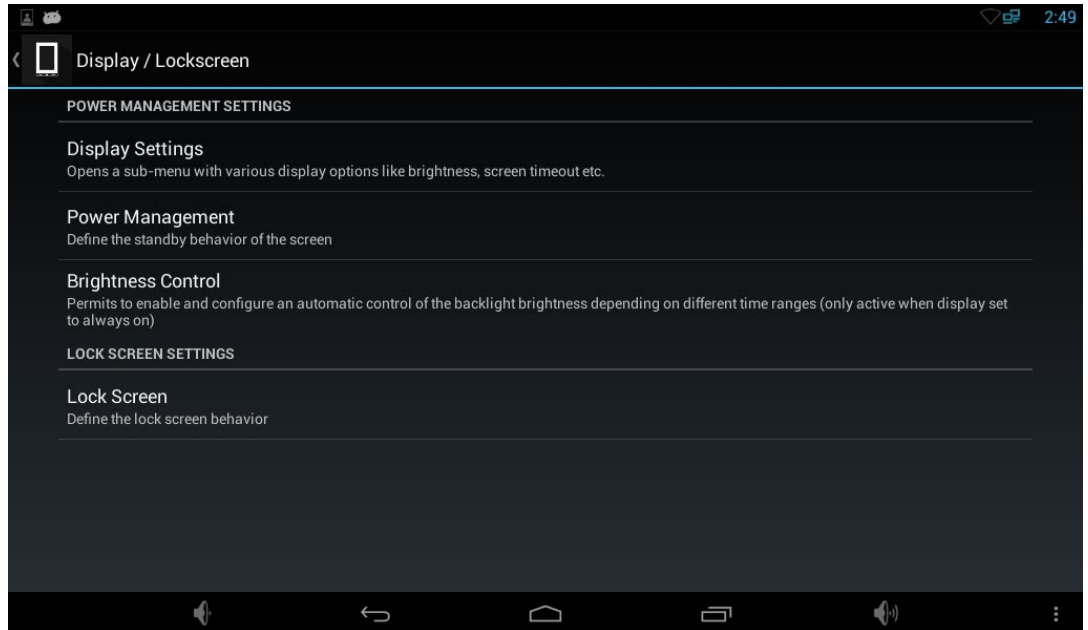
The „Icon Management” (screenshot on the upper left), as already mentioned before in this manual, permits to show / hide the customized icons of the first 5 fields of the first page of the launcher.

The option „Show description on empty buttons“ permits to hide the label „No app assigned“ on empty launcher fields. This can be useful if e.g. not all of the 6 launcher fields of a page are connected to apps and nevertheless afterwards the launcher should be sealed by disabling the editing of the grid view (see explanation above).

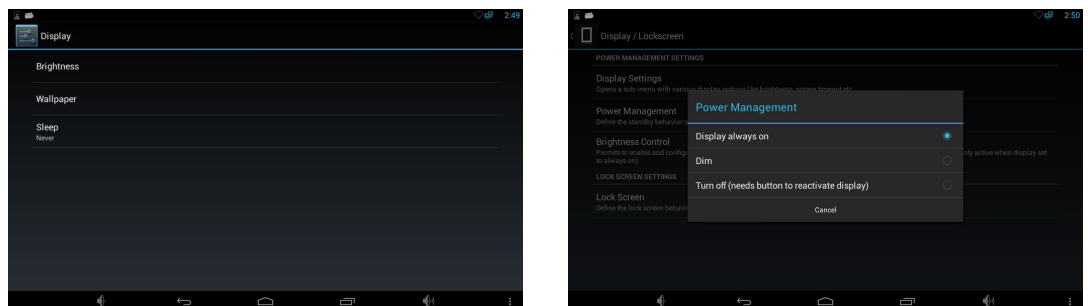
The next section deals with the display and energy management of DIVUS TZ as well as with the configuration of the lock screen.

3.4.4 “DISPLAY / LOCKSCREEN” SETTINGS

The following screenshot shows the different settings / entries available in the third category:



The first 2 entries permit to configure the display/power management settings of the DIVUS TZ:



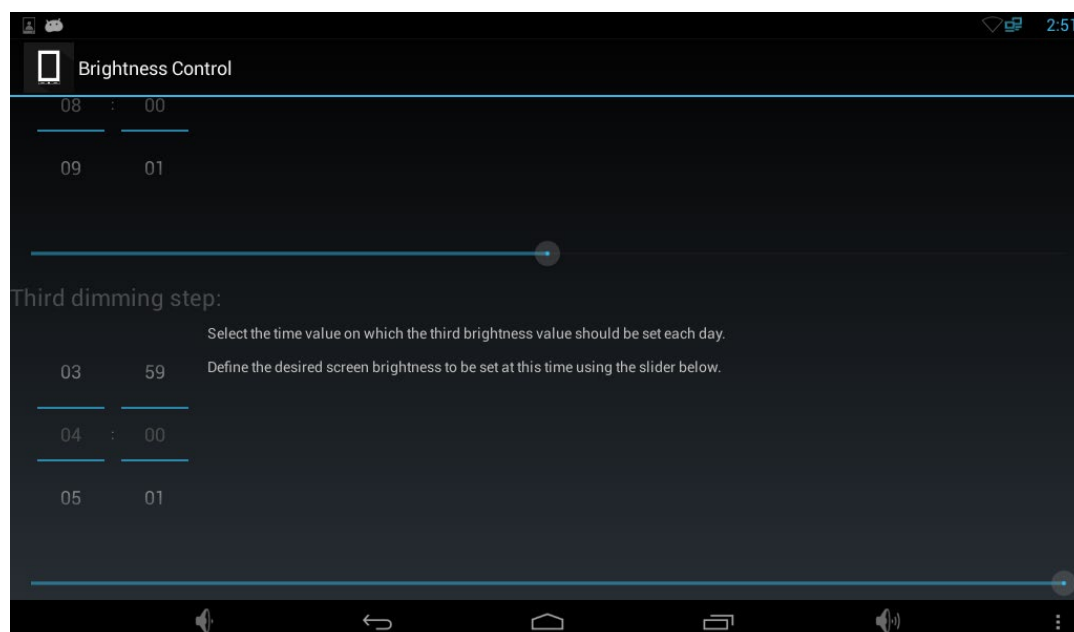
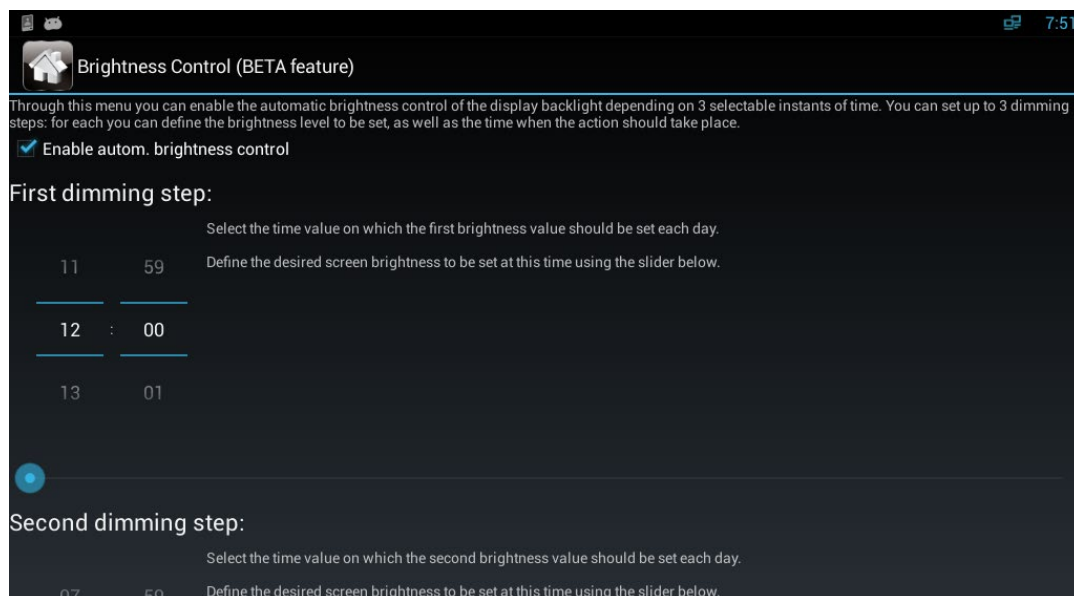
The menu „Display Settings” is a link to a standard settings menu of Android and beneath the configuration of the display timeout (used for the display dim and off functions) also permits to manually change the brightness of the display of DIVUS TZ. Furthermore the default background picture of the Android system can be adapted, which is shown for example in the RECENTS menu or in apps which do not occupy the full screen size (like e.g. the VIDEOPHONE app).

The entry “Power Management” through a popup window will give you the possibility to select between one of the following options:

- The option “Display always on” keeps the display constantly on maximum brightness and disables all kind of power saving options.
- The option „Dim” will set the brightness of the display to the minimum value after a certain time (compared to the next option this has the advantage that the touchscreen of DIVUS TZ will still react to inputs).

- The option "Turn off" will disable display and touchscreen after a certain time. In order to re-enable DIVUS TZ from this state, the HOME button must be pressed; no touch input will be recognized in this state.

The next menu entry is called „Brightness Control“ and is only enabled if for the „Power Management“ the option „Display always on“ has been selected. In this case it is possible to configure an automatic brightness control in dependency of the integrated brightness sensor. The configuration of the brightness control is done through the following menu:



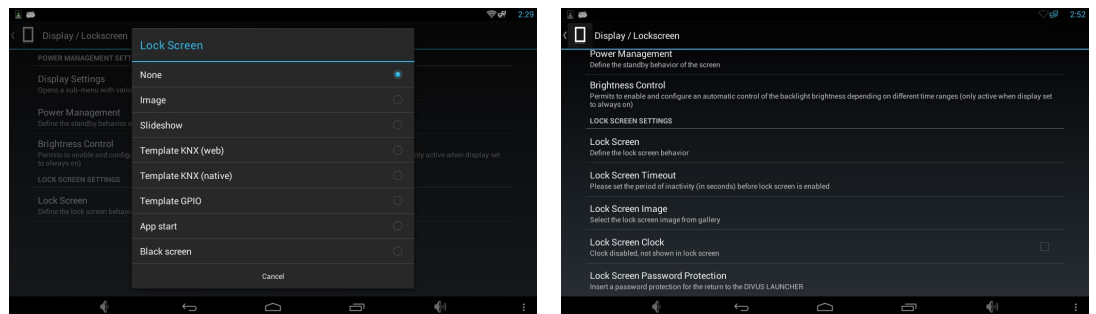
The checkbox permits to enable / disable the control.

The 3 dimming steps permit to create different time scheduling. Each dimming step works in the same way; if the instant of time configured on the left is reached, the brightness will be set to the value of the corresponding slider.

When changing the slider values, the display brightness will be actively changed, in order to give you a preview of the brightness value that should be set.

For a correct functionality, all dimming steps must be correctly configured.

The setting „Lock Screen“ allows the configuration of a display lock screen for DIVUS TZ:



Per default this option is disabled. When enabling e.g. „Image“ as lock screen, further configuration entries (like timeout and path to the image, check out the screenshot on the upper right) are shown.

The selected image (or a default image, if no image is selected) after the defined timeout will just be shown in front of the launcher and prevent an unwanted commanding of the fields of the launcher. A swipe gesture to the left or right side will disable the lock screen and show the launcher pages again.

The additional entries permit to show also the current time within the lockscreen or to protect the lockscreen through a freely selectable password. In this way the lockscreen can protect the whole device against unwanted operation (can be useful if the device is installed in public places).

The „Slideshow“ option is very similar to the „Image“ option, but instead of showing just one picture, a set of pictures will be shown in typical screensaver manner. The parameter „Lock Screen Image“ is substituted by the parameter „Lock Screen Folder“, which permits to select the target folder containing the pictures that should be used for the slideshow. Furthermore the parameter „Lock Screen Interval“ is added, which permits to define the time each single picture should be displayed before changing to the next one.

The 3 „Template“ options can only be used in combination with a DIVUS KNX CONTROL device and/or DIVUS TOUCHZONE. By enabling this option it is possible to place functions of the OPTIMA visualisation directly on the lock screen and consequently command them without any delay, or to control the digital outputs of the TZ. There are available 3 types of templates:

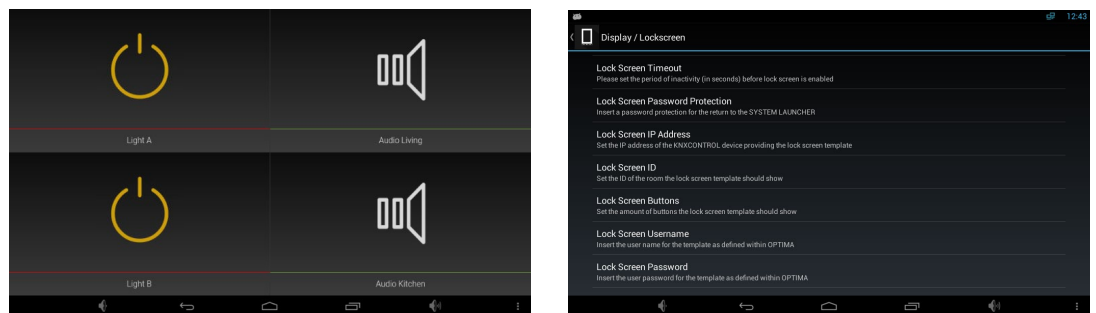
- Template (web)
- Template (native)
- Template (GPIO)

The web template offers its functionality through a special HTML page which is directly obtained from the connected KNXCONTROL device. This means that the contents will always be shown in the typical OPTIMA design and the same page / functions will be available also directly within the OPTIMA interface.

The native template instead offers a completely independent graphical interface, which is highly customizable and communicates directly with the KNXCONTROL device, without the use of HTML contents. This eliminates the loading times for the template and permits to use alternative designs.

The GPIO template is similar to the native template, however it allows to directly control the digital output of the TOUCHZONE.

The following screenshots show an active web template lock screen (on the left side) and the available settings for its configuration (on the right side), explained below:



- Lock Screen Timeout:

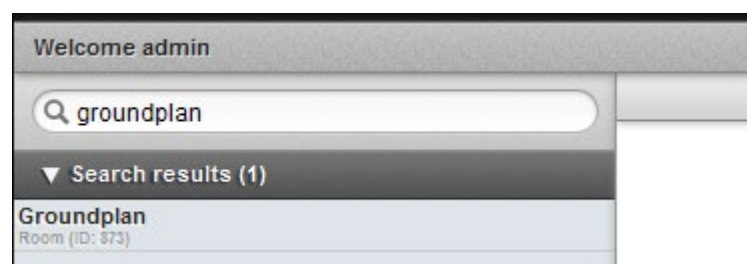
Defines the time, after which the lock screen should be shown. Please take care that the first access to the lock screen after changing the template settings always will be take around 40 seconds; the defined value will then be used for any further start of the lock screen.

- Lock Screen IP Address:

Defines the IP address of the **KNXCONTROL** device, which provides the lock screen template. If used in combination with DIVUS HEARTBEAT, the HEARTBEAT hostname and corresponding port can be used instead of the IP address.

- Lock Screen ID:

Defines the ID number of the room that is used as lock screen template. This number can be identified through the search function within the configuration area of OPTIMA. Just search for the desired room; in the list with the search results the ID number is shown right under the name of the room, as shown in the following screenshot:



- Lock Screen Buttons:

Through this pop-up menu you can define how many buttons the used lock screen template should show. You can select between 1, 2, 4, 6 or 8 buttons. Please take care that the previously (through the ID number) selected room contains at least the selected amount of KNX objects; otherwise the lock screen template will show empty buttons.

- Lock Screen Username:

Please specify the user name required for the login to OPTIMA.

NOTE: it is recommended to create a separate user in OPTIMA for the lock screen template use.

- Lock Screen Password:

Please insert the password corresponding to the user inserted before

- Delete Lock Screen Cache:

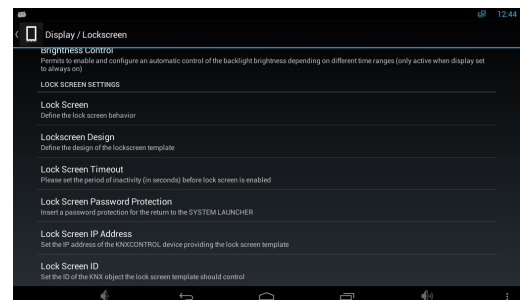
Deletes the cached data of the web lock screen, forcing a reload of the data. Once deleted, the user is forwarded to the main LAUNCHER screen.

If all parameters have been configured correctly, at the next launch of the lock screen the desired buttons should be shown and a direct control of the system should be possible. Naturally, the previously explained lock screen gestures will remain active also when using the template option.



NOTE: Depending on the server configuration, it might be necessary to login also manually at the first access. Furthermore, in front of graphical changes to the visualisation (like e.g. a THEME switch) it will be necessary to reboot DIVUS TZ through the power off menu in order to take over all the changes.

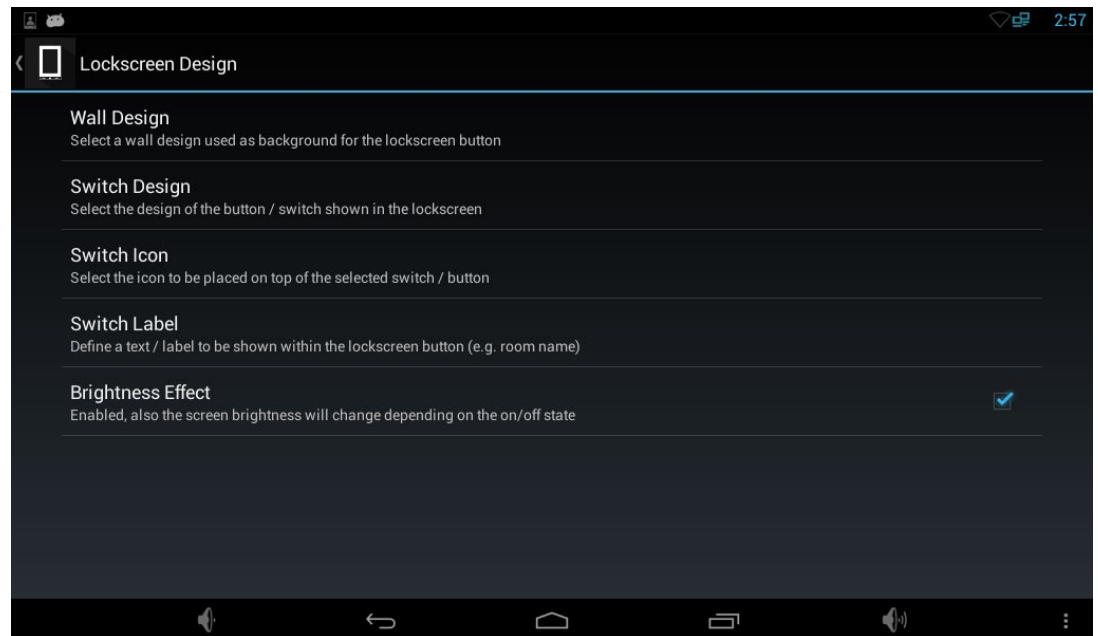
The configuration of the native template is very similar to the one of the web template, but it offers a dedicated sub-menu for the configuration of the template design. The following screenshots show an active native template (left) and the available options for its configuration (right):



As also for the web template image lock screen, the timeout and password protection settings remains valid. Contrary to the web template, the native template doesn't require any login data (since the contents are not received through the OPTIMA interface), but only the IP address of the connected KNXCONTROL device and the ID of the object that should be controlled. This means that the native template doesn't use a room ID (as the web

template), but the ID of a single KNX object. This ID can be found in the same way as the room ID (as described on the last page), by using the search function of the OPTIMA interface.

Furthermore, the native template offers the following sub-menu for the configuration of the lock screen template design:



Through the settings present in this menu, the style and design of the template can be defined. The following options are available:

- Wall Design
Select one of the different designs, which will then be shown as background (and therefore as wall picture of your switch).
- Switch Design
Select the desired switch design. You can choose between 3 bright and 3 dark variants.
- Switch Icon
Through this option you can define whether to show a functional icon on the switch (like e.g. light, audio, irrigation) or not.
- Switch Label
Here you can specify a short description which will be shown below the switch.
- Brightness Effect
If this effect is enabled, the switching function will not only result in the corresponding KNX action, but also the display of DIVUS TZ will be dimmed accordingly for a moment (switch OFF = display dimmed, switch ON = display brightens).

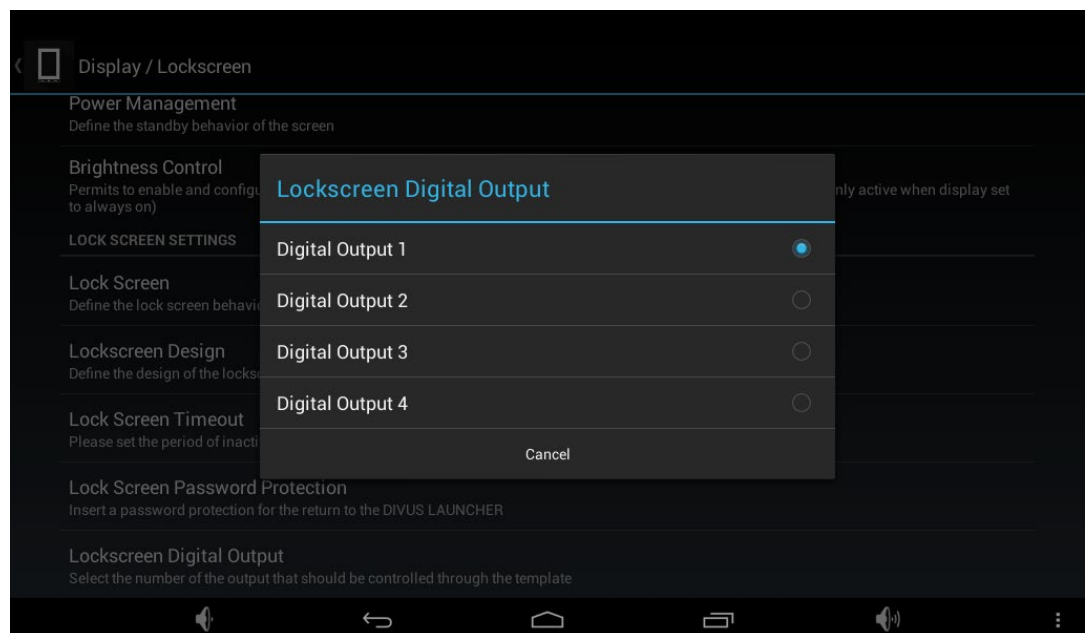
After the configuration of the single options the lock screen can be used. Compared to the web template, the native template has no loading times and is immediately available. On the other side, the native template only offers one KNX function, meanwhile the web template can contain up to 8 KNX functions.

This lock screen only works as a switch, without showing the actual state of the object. The lock screen can only perform one action at a time: while mid-action, it will ignore further requests by the user.



NOTE: If at the first start of the native template instead of the desired switch only an empty wall is visualised, this either means that there is no connection to the specified KNXCONTROL device or KNX bus, or that the configured KNX object hasn't been configured to obtain feedback (status) messages from the bus and works in write-only mode. In this case, the switch will only be shown if you click once on the empty wall. In order to see also the correct state of the object, the KNX object must be configured correctly within the OPTIMA interface. Information on the configuration can be found inside the installation manual of the OPTIMA interface.

The GPIO (general-purpose-input-output) is an additional lock screen, with which the digital output of the DIVUS TOUCHZONE can be controlled. It is nearly identical to the native KNX lock screen in both function and appearance, it only has an additional setting to select which output should be controlled.



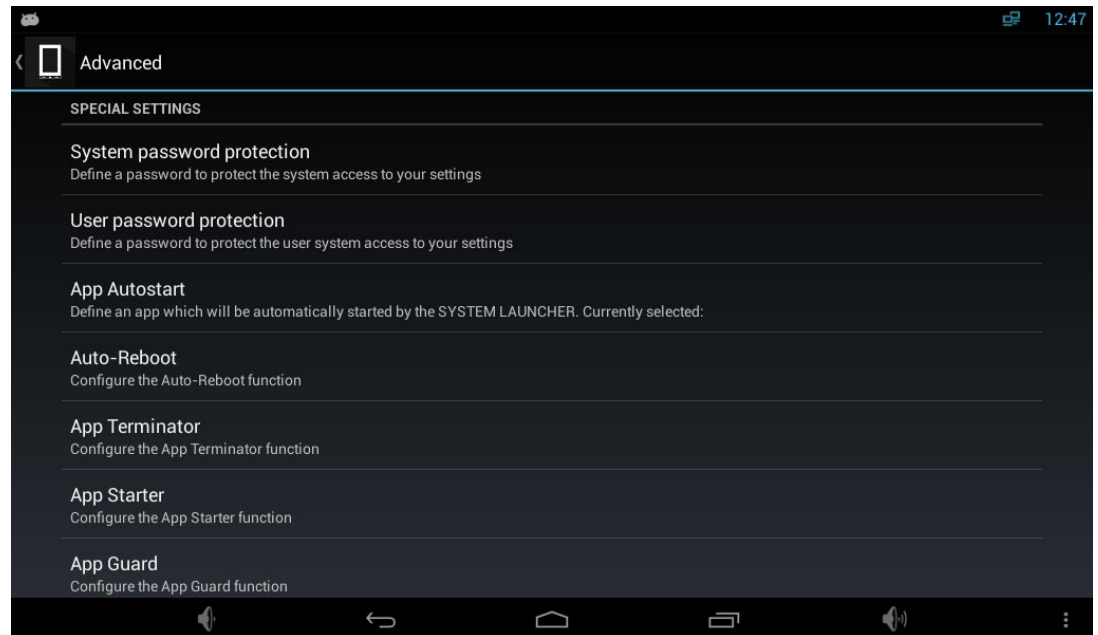
The option app start allows to select an app and use it as a lock screen. If not already in foreground, the selected app will start after the set timeout. If the app is already in foreground, then the app itself will remain open. If no app is selected or the app is no more available, a blank screen is shown. However, for this type of lock screen it's not possible to set a password.

The option black screen allows to show an empty black screen as lock screen. Further, when using this lock screen, the display brightness is set to minimum. When the lock screen is closed, the brightness is back to the previous value.

The next chapter discusses the system settings of the DIVUS TZ.

3.4.5 “ADVANCED” SETTINGS

The following screenshot shows the different settings / entries available in the last category:



NOTE: There are 3 different types of settings access level used to protect the settings page: system, user and DIVUS. Each of them gives different access to the various settings of the Launcher. System access level (default password: 0000) gives access to most available settings and is intended to be used/known by technical staff which knows the DIVUS TOUCHZONE thoroughly. User access level (default password: 1111) gives restricted access to only some settings which are safe to be used by casual users and/or non-technical staff. DIVUS access level is reserved to DIVUS employees only. When clicking on the DIVUS logo within the launcher, a password dialog will be shown and the settings page will only be accessible when a valid password is inserted.

The entry “System password protection” changes the password for the system access level to the settings page. At delivery, this password is set to 0000 and – as mentioned in the welcome screen – must be changed. In order to change the password the current password must be inserted and the new password must be repeated twice (and match). If this field is left empty, the access to the settings will be unprotected.

The entry “User password protection” changes the password for the user access level to the restricted settings page. At delivery, this password is set to 1111. Again, in order to change the password the current password must be inserted and the new password must be repeated twice (and match). Also this field can be left empty, which leaves access to the restricted settings unprotected.



ATTENTION! Though not advisable, both system and user password can be the same. In this special case the settings page will always be opened with system access level, thus nullifying the user access level until both don’t match.

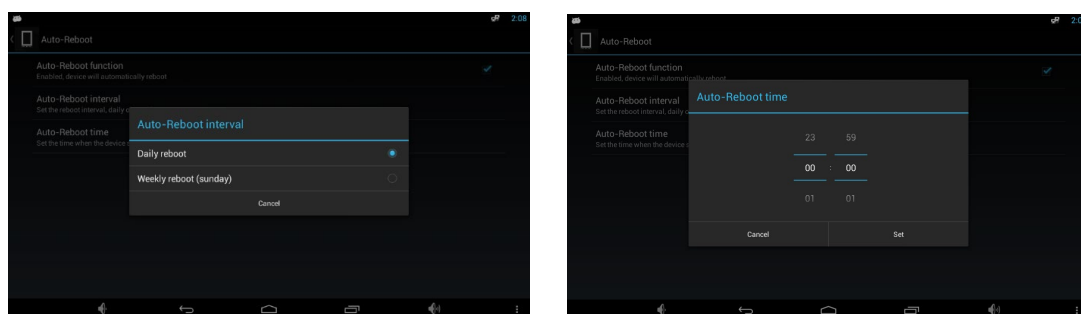


ATTENTION! When trying to open the settings the password dialog will always open, regardless if either one of the passwords is left empty. Whenever an empty password is set, it is used by leaving the dialog empty and simply confirming by pressing “OK”.

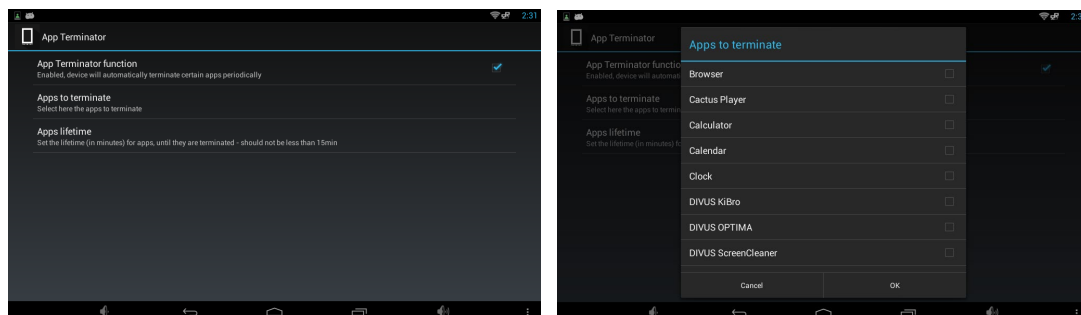
The option “App Autostart” permits to select one of the installed apps, which will be automatically started by the DIVUS LAUNCHER once DIVUS TZ has completed the boot, after a 10s delay. This allows showing a specific app whenever the device makes a reboot. A click on the HOME button or HOME key will always lead back to the DIVUS

LAUNCHER; the selected app therefore doesn't substitute the launcher. In the latest version it is also possible to connect a URL instead of an app, which after completed start-up will be shown within the specified default browser. The functionality/configuration hereby is the same as already explained earlier in this manual for the new URL functionality.

The option "Auto-Reboot" allows to perform scheduled reboot of the DIVUS TZ. The reboot is performed automatically at the set date and time, showing a brief message before performing it. In the submenu the user can activate/deactivate this function, select to perform daily or weekly reboots and pick a time at which the reboot should occur, as seen in the following screenshots.



The option "App Terminator" allows to terminate certain apps automatically after a set period of time. If some apps remain open for too long they may harm the overall performance of the device, so they should not be running more than needed. By using this option such troublesome apps can be selected to be terminated. When the system detects that the apps have reached the set lifetime it will attempt to terminate these apps. If one of those apps is currently in foreground, then additionally also the Launcher is shown.

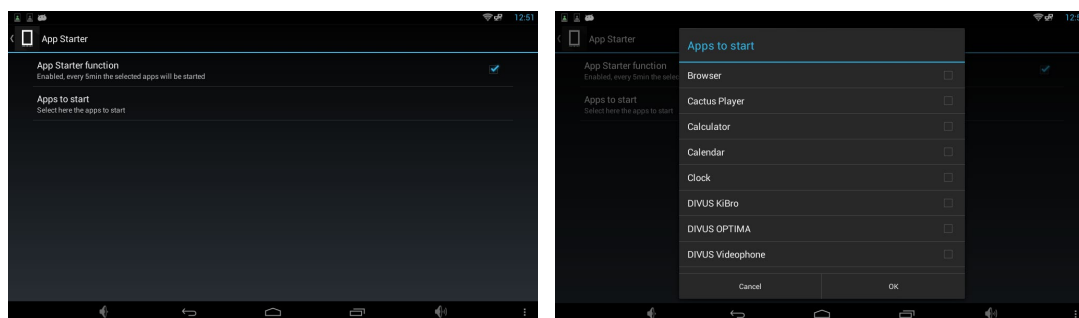


NOTE: Some apps may not be able to be terminated or will restart automatically after they have been stopped. Terminated apps may still show up in the recents tab of the navigation bar, though they are actually stopped. This function is also only available on the new series of DIVUS TZ.

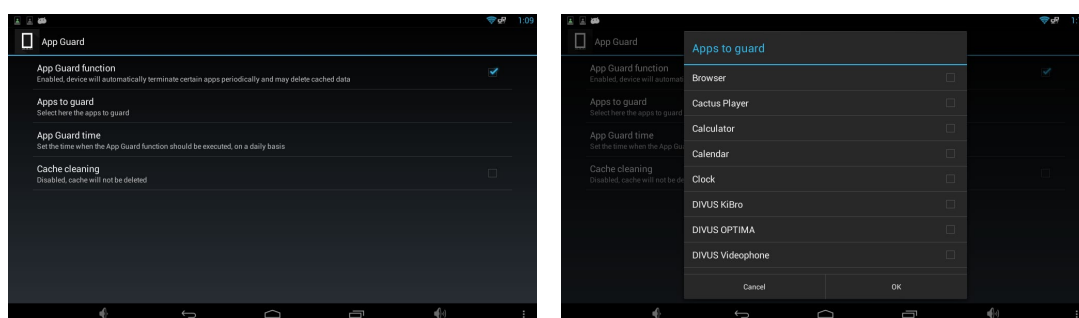


ATTENTION! Terminating an app may leave the app in an unstable state and on the next start the app may behave faulty. Further, the system cannot detect if the app which is to be terminated is currently actively used by the user, causing possible termination mid-operation. Use this function with caution and at your own risk!

The option "App Starter" instead allows to start certain apps automatically after a set period of time. The system checks every 5min if the selected apps are running, and if not they are started. This is especially useful if you want to make sure that a certain app is always running. If such an app should crash or fail, the App Starter should make sure that this app is started again.



The “App Guard” function is an additional surveillance function. When enabled, it performs a given set of tasks on a daily basis on the set time: the Launcher is brought in foreground the selected apps are terminated, if desired as much cache as possible is freed, and the selected apps are started again. This can be used as an attempt to keep the TZ running stable, whenever a certain app is known to cause memory issues.



The option “Microphone Boost” allows to boost the microphone gain of the TZ. This is useful when the TOUCHZONE is used as intercom system, and the other side is hearing the TZ too silent and cannot be adjusted. With this option an increase of about +8dB can be achieved.



ATTENTION! The TZ is by default configured for best audio quality and echo-cancelling. By enabling the microphone boost a good audio quality cannot be guaranteed anymore. Further, prolonged use of the microphone boost may damage the microphone itself.

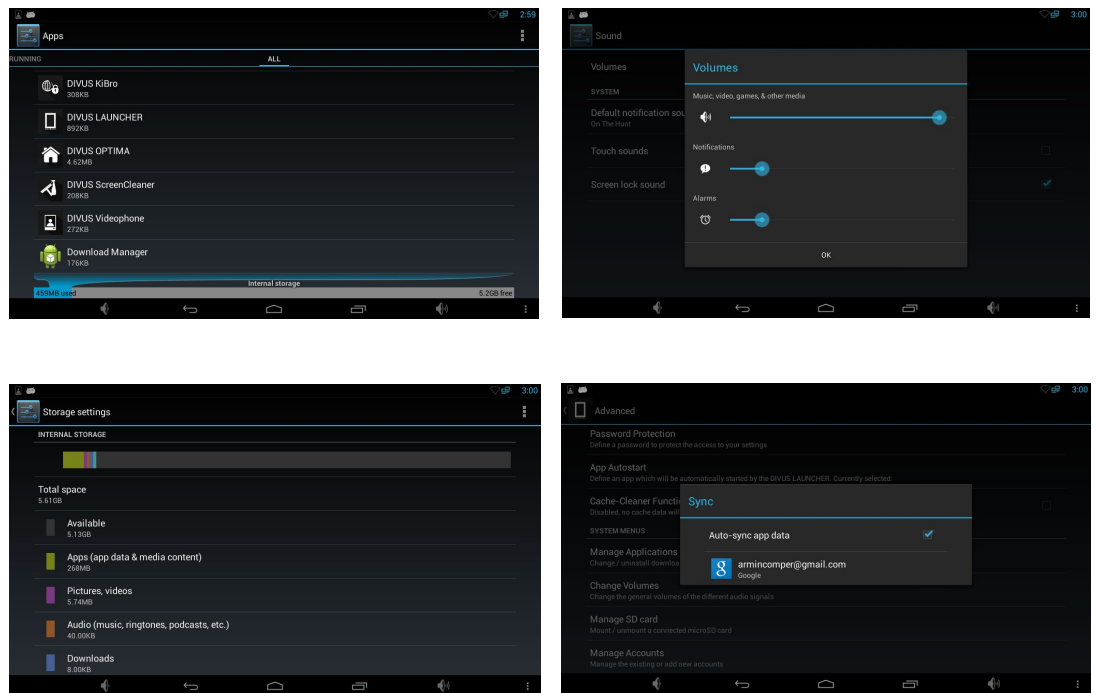
The “Cache-Cleaner Function” is a surveillance function, which should avoid that the memory of DIVUS TZ is filled through the installed applications. Normally each application must handle its cache on its own and clean it, if required. Sometimes it can happen that apps do not provide such functionality or it is overridden due to an incorrect usage of the app. In this case the cache cleaning can be handled directly through the DIVUS LAUNCHER.



ATTENTION! The DIVUS apps manage their cache on their own and don’t require this functionality. Therefore the cache-cleaner is disabled per default. If you intend to use the DIVUS OPTIMA or DIVUS KIBRO app, please DO NOT ENABLE the cache-cleaner. If instead you are using other applications which apparently do not handle their own caches, you can enable this functionality.

The option “Logs” opens a submenu about logging. Logging is by default enabled and is used in case of support to better analyse possible problems which may arise. These options are usually only used/changed if instructed to do so by DIVUS employees. There is also a possibility to manually send the logs to DIVUS or to empty the log file. Additionally the logs can also be send automatically, if needed by DIVUS for long-term monitoring.

The next 4 entries again link to standard menus of Android:



The entry „Manage Applications“ (screenshot on the upper left) will show a list of applications installed on the devices (for example through the Play Store) and allows their administration and also uninstalling. Furthermore this menu can be used in order to clear the user data and cache of single applications.

The entry “Change Volumes” (screenshot on the upper right) permits to change the volumes of the DIVUS TZ (e.g. ring tone volume, media volume) and gives access to the various settings of the available audio signals.

The entry „Manage SD card“(screenshot on the lower left) can be used to mount / unmount microSD cards connected to the corresponding slot on the front side of DIVUS TZ. The menu permits to mount, unmount and also erase the storage card. Furthermore this menu also shows information about the integrated storages. At delivery, from the 8GB internal storage approximately 5GB are free for user data (like media, images,...); the remaining space is used by the Android installation itself.

The entry “Manage Accounts” (screenshot on the lower right) permits to add or remove accounts (like e.g. the Google accounts, required to access the features of the Play Store) and offers settings regarding the user data synchronization.



ATTENTION! The access to further Android settings is possible only to DIVUS employees, since no additional options are required in order to use the device within the functionalities intended by DIVUS.

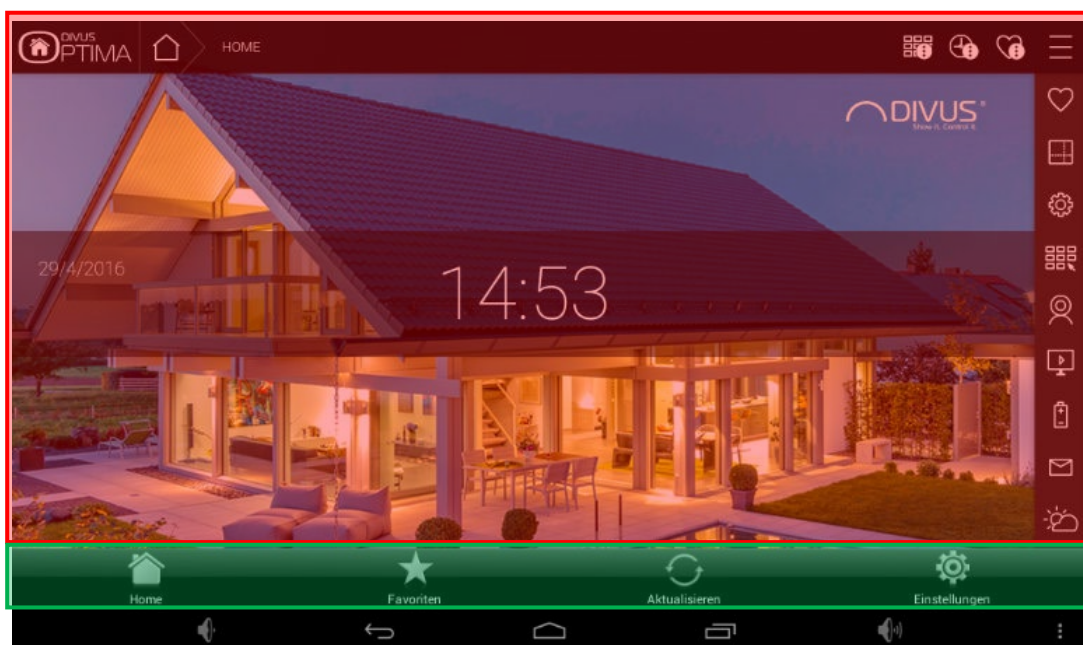
Further information about the DIVUS LAUNCHER can be requested by contacting the technical support of DIVUS.

3.5 DIVUS OPTIMA

The app DIVUS OPTIMA was especially designed to work in combination with DIVUS KNXCONTROL. The app can be classified as web app, which shows contents that normally can also be shown through a common browser, in an optimized way.

In order to get an idea of the representation of the app, the following screenshot shows the app displaying contents of a connected KNXCONTROL device:

Display area of the content provided by the KNXCONTROL device



Menu bar with quick access buttons, provided by the DIVUS OPTIMA app

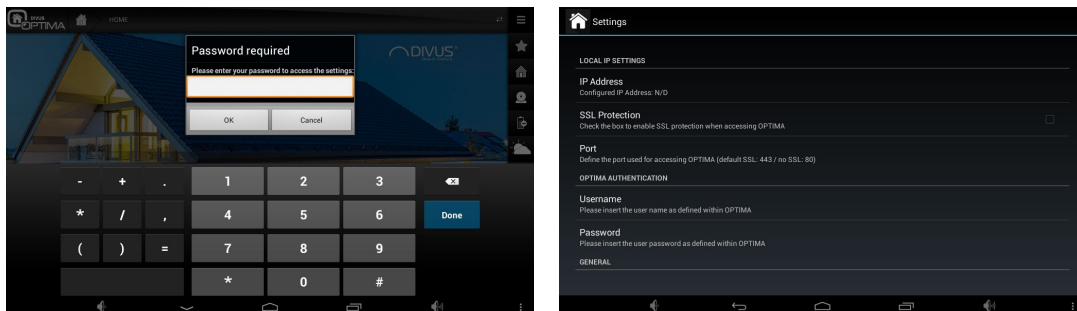
This manual will neither describe the contents of the server or its navigation, nor will it enter in detail on the OPTIMA features themselves. All information regarding DIVUS KNXCONTROL can be found in the corresponding DIVUS OPTIMA user and administration manuals, freely available on our website www.divus.eu.

NEW

NEW: Since the last version of the app, URLs and unsupported camera signals are redirected to external applications. If for example you click on a link to an external URL, it will be opened through the browser app. In the same way, unsupported cameras can be shown through dedicated apps (e.g. VLC player).

The following pages will exclusively handle the configuration of the web app itself. A click on the „Settings“ button opens the configuration page of the app. If the settings page is protected by password, also here – as

already described for the DIVUS LAUNCHER – the correct password must be inserted. The following screenshots show as well the password dialog as also the settings page:



The following list explains the single parameters that can be configured:

Setting	Description
IP Address	<p>In this field the IP address of the targeted KNXCONTROL device must be entered. Take care, the web app supports only KNXCONTROL devices with the new OPTIMA interface.</p> <p>A click on this entry will start a scanning process, which will show a list of the KNXCONTROL devices found in the current network. Afterwards you can select the desired IP address simply by choosing it from the list. Naturally it is still possible to input the IP address manually.</p> <p>Alternatively when used in combination with DIVUS HEARTBEAT it's possible to insert the HEARTBEAT hostname instead of the IP address of the KNXCONTROL device.</p>
SSL Protection	<p>This checkbox enables / disables the SSL protection of the server connection. Generally in local networks there is no need for SSL protection. Therefore this option is disabled per default.</p>
Port	<p>Depending on the previous setting, the default port is either 443 (SSL enabled) or 80 (SSL disabled). If the connected server has a special network configuration (e.g. uses port forwarding) and is reachable only through another port, the corresponding port can be set here. If you are using a standard version of the server you can just use the default values already set for this field.</p> <p>If the DIVUS HEARTBEAT hostname is used, then the corresponding port as configured in the port-forwarding of HEARTBEAT is to be used.</p>
Username	<p>This value refers to the user name the app should use to login to the KNXCONTROL device. This user name must be present in the configuration of the server and dispose of the necessary permissions to access the visualisation. If this criterion is fulfilled, the user name can be inserted in this field and – in combination with the password in the next setting – will cause the app to automatically login to the server. If this field is left empty, the app will show an extra login window, where the authentication to the server has to take place.</p>
Password	<p>The password which is required – in combination with the user name explained above – in order to correctly login to the server.</p>

Logs	A sub-menu containing various options about the application logging, especially useful in case of support.
Automatic reconnect	When enabled, the app will automatically reload its contents whenever a network change is revealed.
Show Toolbar	Permits to show / hide the toolbar on the lower edge of the app (with the buttons HOME, FAVORITES and SETTINGS).
Show top menu	This setting sets the visibility of the top menu inside the OPTIMA visualization.
Show side menu	This settings sets the visibility of the side menu inside the OPTIMA visualization.
App Autostart	If this option is enabled, the app will be automatically started after a reboot of DIVUS TZ. In this way, after every boot the connection to the server will be established immediately.
Keep Display On	This option defines whether the app should keep the display of DIVUS TZ always on or instead the energy settings (as defined within the DIVUS LAUNCHER) should be used.
Enable Auto-Hide	This option permits to set a timeout after which the app is closed automatically. This prevents that the app remains permanently in front and hides other applications. If the timeout is set to „0“ or left empty, this function is disabled.
Refresh App	This entry refreshes the interface of the software, without clearing the cache of the DIVUS TZ (see next point). This process is much faster than the deletion of the cache and is enough if only small changes to the visualisation occurred.
Empty Cache	If this menu entry is clicked, the local cache of DIVUS TZ is emptied / deleted and at the next connection to the server all necessary data is downloaded again from the server. This function is necessary whenever changes are made on the server side (like for example change of the theme, creation of new rooms etc.). In these cases the cache has to be refreshed before DIVUS TZ will show the new configurations.
Password Protection	As already mentioned, this point allows defining a password which protects the access to the settings menu. If this field is left empty, access to the settings is granted to everybody clicking on the settings button.

The „Back“ entry will take you back to the main screen of the web app. If parameters of the web app have been changed within the settings menu, the connection will be refreshed automatically.



ATTENTION! DIVUS HEARTBEAT hostname instead of the IP address of KNXCONTROL is available only on TOUCHZONE A9 series sold after March 2015.



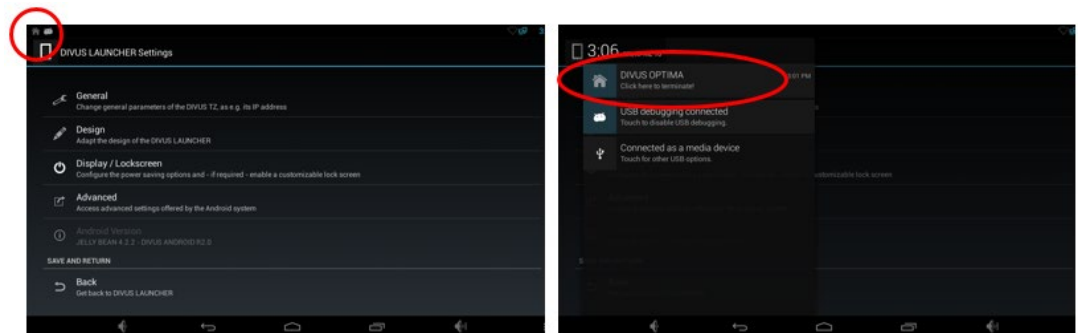
NOTE: Since the switching between local and remote access is not required when using the app on DIVUS TZ (it will always run in the local network), the corresponding option will be shown only when using the app on mobile devices.

When starting the app for the first time an advice will be shown that no server has been configured yet. The use of the app will only be possible if at least the IP address of the targeted KNXCONTROL device is inserted. When leaving the settings page after modifying this value, the app will try to connect to the specified server. The home page of the server is shown as soon it is loaded completely.

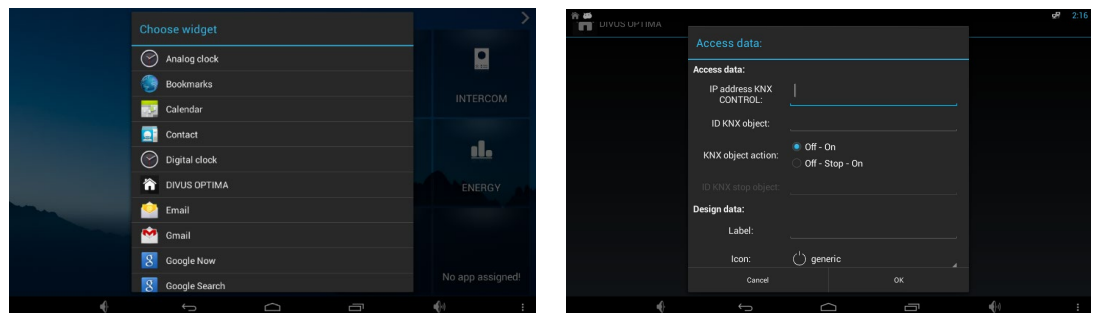
The first connection can take up to one minute until completion since the necessary data has to be transferred from the KNXCONTROL device. Once the web app has been loaded completely, the connection to the server remains established and the pages of the visualisation can be access without further time delay. This is accomplished by using a background service which keeps active the connection to the server and prevents that the web app is closed automatically by the garbage collector of Android.



ATTENTION! When using the app on devices without permanent power connection (like for example smartphones or tablets), the constant connection to the server can reduce battery life. Therefore it is possible to terminate the app and its service at any time through the notification bar of Android (please check out the following two screenshots).



Additionally to the app itself, also a dedicated widget for DIVUS OPTIMA exists. The widget can be created multiple times and each widget can be used to control an object inside KNXCONTROL. To use the widget, the user has to select it from the list of available widgets and configure it accordingly.



The widget configuration screen can be scrolled vertically and the following parameters can be configured:

Setting	Description
IP address KNXCONTROL	The IP address of the targeted KNXCONTROL device. Alternatively when used in combination with DIVUS HEARTBEAT it's possible to insert the HEARTBEAT hostname and corresponding port instead of the IP address of the KNXCONTROL device.
ID KNX object	The ID of the object inside KNXCONTROL to control through the widget.
KNX object action	Which actions should be performed on the selected object through the widget. According to which action is selected, the widget will have 2 buttons (off-on) or 3 buttons (off-stop-on).

ID KNX stop object	The ID of the (complex) object inside KNXCONTROL, which is able to handle a stop command.
Label	The text which will be shown on the widget, as a custom description for the controlled object or performed action (e.g. blinds living room, garage, garden irrigation, all lights)
Icon	An icon from a predefined list can be chosen, which will be shown on the widget.
Look & feel	This option will define the colours and theme used in the widget.

The OPTIMA widget can be placed multiple times and on different pages, also its size can be changed as preferred by the user. If a widget is no more used, it can also be removed from the widget area, in order to free up space.

The following screenshot shows some OPTIMA widgets placed on the widget area of the LAUNCHER.



Please note that currently the widget can not be edit: once it's configured it will stay like that, in order to change its data it has to be deleted and a new widget must be created. Further, at the moment the widget works only locally, remote control is currently not supported.

Further information about the DIVUS OPTIMA app can be requested by contacting the technical support of DIVUS.

3.6 DIVUS VIDEOPHONE

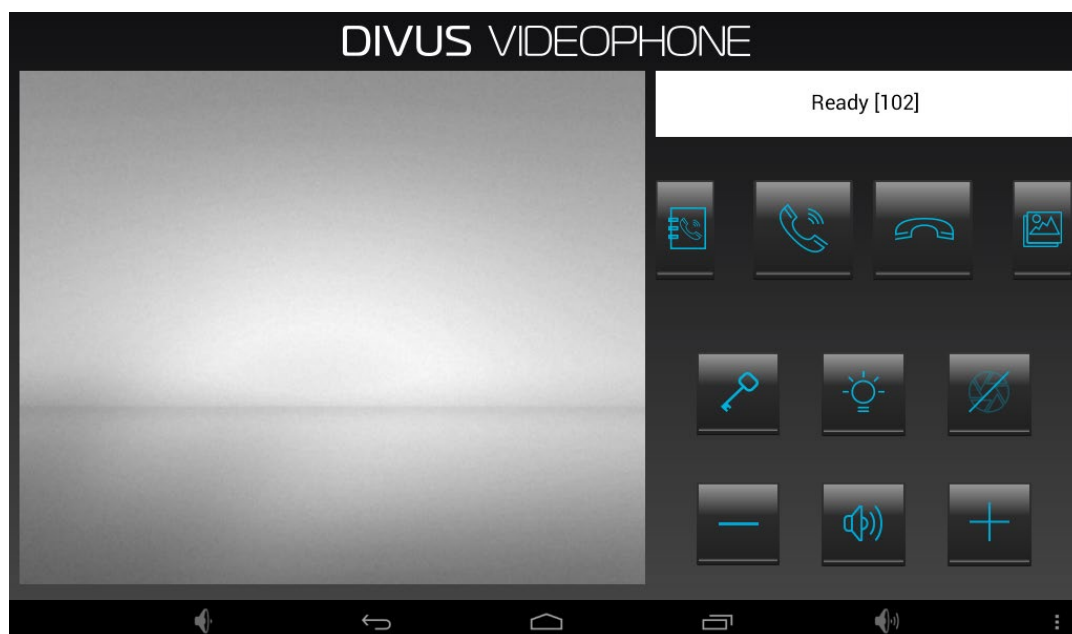
The app DIVUS VIDEOPHONE completes the DIVUS intercom portfolio and makes video communication possible also on DIVUS TZ and other supported devices with Android operating system. The app follows the Windows version of the Videophone-Software (now available in version 3.0) as well in functional as in design terms and – just like the other DIVUS apps – is preinstalled on all DIVUS TZs.



NOTE: This app is no longer actively supported and is replaced by the improved DIVUS VIDEOPHONE 4. Users who wish to keep this app can nevertheless continue using it. The manual for DIVUS VIDEOPHONE can be found on our website www.divus.eu.

3.7 DIVUS VIDEOPHONE 4

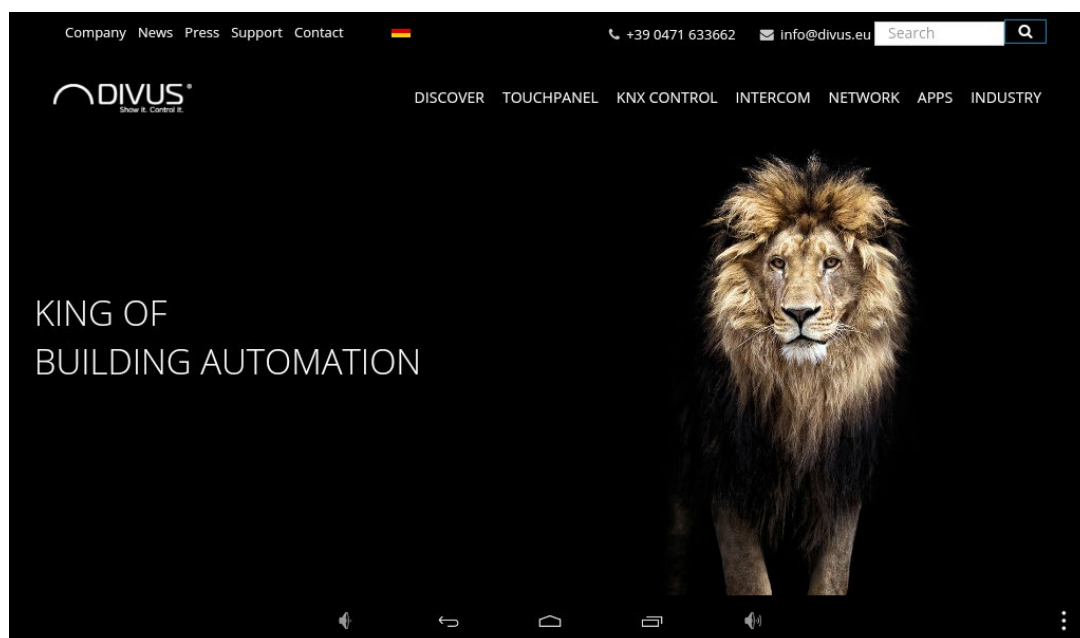
A new and improved intercom app is available: DIVUS VIDEOPHONE 4. This new version offers a vast set of useful functions, more customization and improved overall stability. Just like the other DIVUS apps, also this app is preinstalled on all DIVUS TZs.



NOTE: The new intercom app DIVUS VIDEOPHONE 4 has a dedicated manual which can be downloaded from our website www.divus.eu. Check it out for further details!

3.8 DIVUS KIBRO

DIVUS KIBRO is a kiosk browser app which allows to visualize web contents in fullscreen. This is the ideal app to access web-based systems for which no dedicated app exists. Its integrated cache and memory control routines will avoid that continuous data streams cause problems. With DIVUS KIBRO you have fullscreen access to your favorite website.



NOTE: The app DIVUS KIBRO has a dedicated manual which can be downloaded from our website www.divus.eu. Check it out for further details!

3.9 DIVUS MÜLLPLANER

DIVUS MÜLLPLANER aims to help to organize and remind of disposing household waste and garbage, letting the user focus on more important things. The app offers a calendar to have an overview over past and coming garbage pickups and by a simple click on a day it's possible to remove existing pickups and easily add new colored pickups with predefined intervals. Further, also various notifications to remind in advance of upcoming pickups can be set and also management of holiday is possible. With the app DIVUS MÜLLPLANER one of the housekeeping chores becomes as easy as can be.



NOTE: The app DIVUS MÜLLPLANER has a dedicated manual which can be downloaded from our website www.divus.eu. Check it out for further details!



ATTENTION! DIVUS MÜLLPLANER is available only TOUCHZONE A9 series with Android 5.0.2 sold after April 2017.

3.10 DIVUS IP CAM VIEWER

With DIVUS IP CAM VIEWER you have the possibility to access your IP cameras surrounding your home or your remote holiday resort, seeing in real-time what is happening around you, and help you feel more secure and in control. The app allows to easily connect local/remote IP cameras of various types and take screenshots of the current camera image. You can view up to 6 cameras simultaneously and by a simple click quickly see one in full screen. With the app DIVUS IP CAM VIEWER you can get the most out of your IP cameras and increase your surveillance capabilities. Now you will always know what is happening around you.



NOTE: The app DIVUS IP CAM VIEWER has a dedicated manual which can be downloaded from our website www.divus.eu. Check it out for further details!

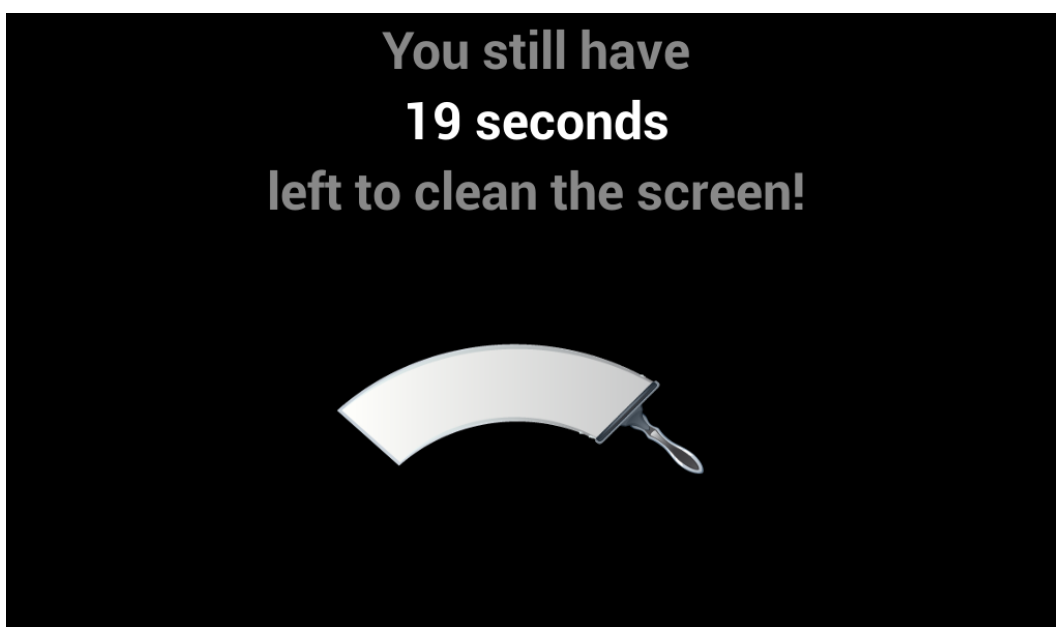


ATTENTION! DIVUS IP CAM VIEWER is available only TOUCHZONE A9 series with Android 5.0.2 sold after April 2017.

3.11 DIVUS SCREENCLEANER

The functionality of the app DIVUS SCREENCLEANER is self-explaining and really simple: by starting this app, all touch inputs will be blocked for 30 seconds and a cleaning screen with a small animation is shown. Furthermore a countdown is shown, which indicates how many time is left for cleaning. While the app is running, the glass front of DIVUS TZ can be cleaned without the risk of unwanted operation. Once the countdown reaches 0, the app will be closed automatically and the touch input is re-enabled.

This screenshot shows the mentioned cleaning screen:

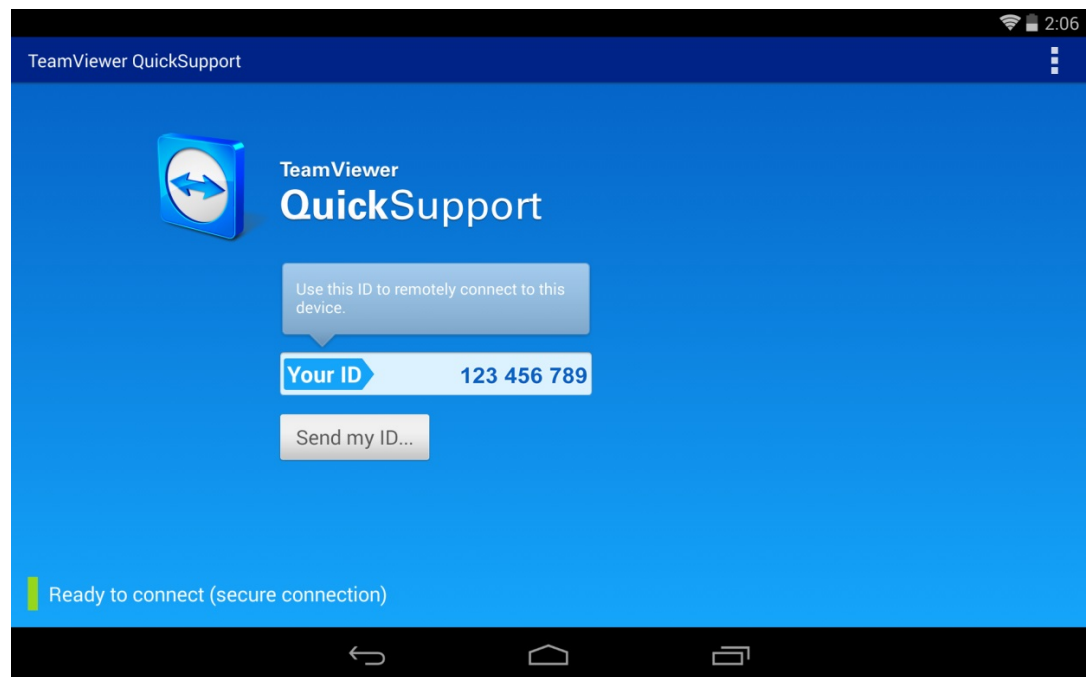


Further information about the DIVUS SCREENCLEANER app can be requested by contacting the technical support of DIVUS.

3.12 TEAMVIEWER QUICKSUPPORT

The new DIVUS TZ generation at delivery already contains the app „TeamViewer QuickSupport“, which should simplify support cases, permitting the DIVUS personnel to connect remotely to the device (after authorization by the customer) and executing controls directly on the device. Naturally this requires that DIVUS TZ is correctly connected to internet.

If required, the app can be connected to a free launcher field and, once started, will show the following screen:



ATTENTION! When starting QuickSupport a disclaimer is shown, this disclaimer has to be accepted in order to start the app. Read it carefully!

If the reported ID is passed to the DIVUS personnel, a remote connection can be initiated and an efficient support can be given.

Further information about the usage of the „TeamViewer QuickSupport“ app can be found on www.teamviewer.com.



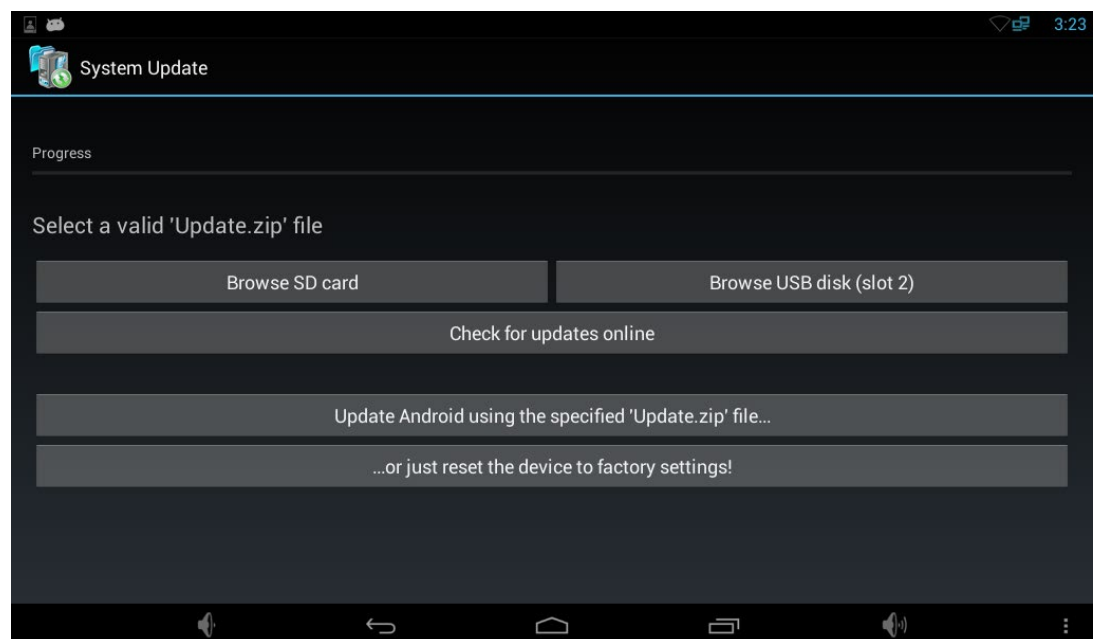
NOTE: Though the QuickSupport app can be selected in the AppGuard and AppStarter of DIVUS LAUNCHER, when selected it will be ignored for these functions.

3.13 SYSTEM UPDATE

In order to either update DIVUS TOUCHZONE to the latest version or to reset it to factory defaults, clearing all kind of user data (like settings, installed apps, Google accounts etc.), you can use the pre-installed app „System Update“.

After starting this app, you can either update your DIVUS TOUCHZONE using a special file or you can reset the device to factory settings. By selecting the second option, the device will automatically reboot, execute the reset and start with the factory defaults.

The following screenshot shows the simple graphical interface of the “System Update” app as well as the available options:



The usage of the first option in order to update the installed Android version is as easy as the reset procedure: if DIVUS releases new versions, this happens in form of a file called „Update.zip“. This file can be copied onto a microSD card or USB stick and can then be selected within the *System Update* app. By starting the update, the device will reboot and afterwards start with the new Android version. This operation will not touch your user data, which remains unchanged!



NOTE: if you are using a USB stick for update, please note the enumeration of the USB slots. Slot nr. 2 is – as also visible on the rear label – the upper one of the 2 available slots.



NOTE: the System Update app also offers an OTA functionality (OTA = „over the air“), in order to get updates online from the DIVUS server. If your DIVUS TZ is connected to the internet, simply click on the “Check for updates online” button; if a newer version is found on the DIVUS server, it is automatically offered for download. Afterwards the file is verified and – if confirmed by the user – automatically installed.

4 Android 5.0.2 - Lollipop

All DIVUS TOUCHZONE produced from April 2017 onwards are equipped with an updated base version of Android: Android 5.0.2 Lollipop. Nevertheless the previous version with Android 4.2.2 offers the same functionality, there are mostly only some minor graphical differences due to the different Android base version.

The other differences and improvements which come with Android 5.0.2 will be discussed now in details.

4.1 PRE-INSTALLED APPS

The same DIVUS apps are present and readily available, only the first generation of VIDEOPHONE has been removed in favour of the newer and improved VIDEOPHONE 4. Additionally some default apps have added or replaced with their updated version:

- The stock AOSP Calendar has been replaced with Google Calendar (requires a Google account).
- The stock AOSP Music has been replaced with Google Play Music.
- The stock AOSP Browser has been replaced with Google Chrome.
- The stock AOSP E-mail has been replaced with Google Mail (Gmail, requires a Google account).
- Google Maps has been added.
- YouTube has been added.

4.2 WI-FI SUPPORT

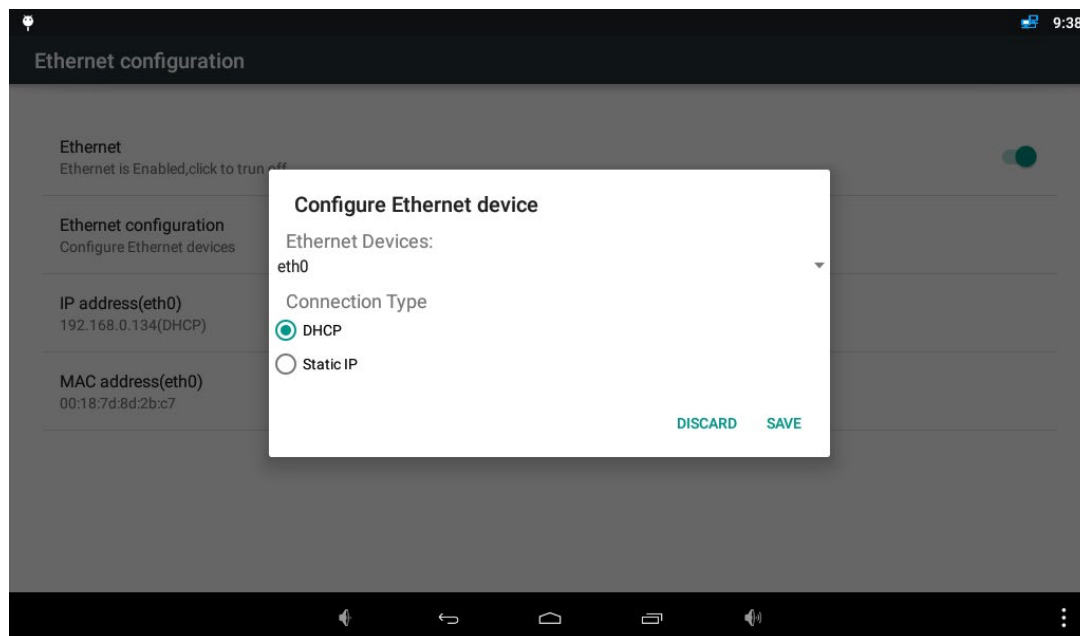
As with the previous image, also Android 5.0.2 can connect to Wi-Fi through the additional use of a DIVUS Wi-Fi dongle. This dongle is not included in the product contents and has to be acquired separately. The Wi-Fi settings can be accessed by swiping the status bar all the way down from the top margin of the screen and then clicking on "Wi-Fi". In the next menu you can enable/disable Wi-Fi, scan for networks and connect to them.



ATTENTION! The Wi-Fi dongle of Android 4.2.2 is not compatible with Android 5.0.2, a new dongle is required! Likewise, the Android 5.0.2 dongle is not compatible with Android 4.2.2.

4.3 NETWORK SETTINGS

As shown in the following screenshot, the network settings remained the same and it's still possible to switch between DHCP and static IP.



There has also been a slight improvement to the network icon. Previously it was only showing if internet connection was present or not, now it also shows if/how the network is currently being used: If the bottom left PC is white it means there is incoming data, if the top right PC is white it meant there is outgoing data. In the picture above the DIVUS TOUCHZONE is currently not sending any data, but is receiving data.

4.4 DIVUS SYNCHRONIZER

Starting with Image version R3.4 it's also possible to use DIVUS SYNCHRONIZER with DIVUS TOUCHZONE. To allow DIVUS SYNCHRONIZER to access the device the corresponding option in the advanced settings of DIVUS LAUNCHER has to be enabled. For additional information consult the dedicated manual.

4.5 FUTURE UPDATES OF ANDROID 5.0.2

Updating a DIVUS TOUCHZONE running Android 5.0.2 with future image updates will be possible with the pre-installed SystemUpdate App. As it was possible up to now, with this app you can update the device through SD-card or USB-stick by providing a particular "Update.zip" file, or reset it to factory settings. However it is advised to use the built-in OTA (over-the-air) update functionality, which will automatically check and download the latest update from the DIVUS servers.



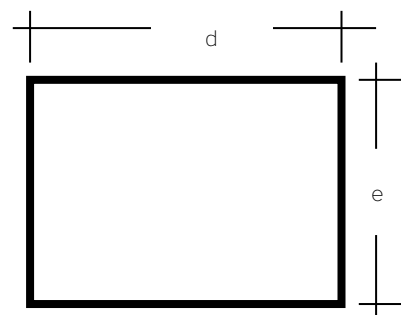
ATTENTION! Updates for Android 4.2.2 are not compatible with Android 5.0.2, likewise updates for Android 5.0.2 are not compatible with Android 4.2.2. Be sure to use the correct file when updating the device!

5 Technical data

5.1 MECHANICAL DATA

Outside dimensions DIVUS TOUCHZONE (LANDSCAPE):

	TZ07	TZ10	TZ15	TZ19
Width (d):	213 mm	288 mm	435 mm	515 mm
Height (e):	136 mm	200 mm	306 mm	345 mm



Cut-out dimensions wall mount box:

	MTZ07	MTZ07-W	MTZ10	MTZ15	MTZ19
Width (d):	210 mm	220 mm	281 mm	428 mm	507 mm
Height (e):	129 mm	141 mm	189 mm	291 mm	330 mm
Depth:	75 mm	80 mm	80 mm	80 mm	80 mm

Dimensions in mortarless mount kit:

	MTZ07-T	MTZ07-WT	MTZ10T	MTZ15T	MTZ19T
Width (d):	210 mm	210 mm	287 mm	434 mm	513 mm
Height (e):	190 mm	190 mm	189 mm	291 mm	330 mm
Depth:	75 mm	80 mm	80 mm	80 mm	80 mm

For the cutout see the wall mount box.

Fixing elements:

DIVUS TOUCHZONE has to be fixed to the wall mount box using the furnished screws / magnets.

Mechanical characteristics:

Front face: Alloy anodized

PC Unit: Alloy anodized & plastic

5.2 DIVUS TOUCHZONE DATA OVERVIEW

	TZ07	TZ10	TZ15	TZ19
Type of design	ultra compact embedded PC for wall mount; android operation system for your applications; noiseless and without any rotating part, Ultra low Power homogeneous smooth glass surface with aluminium side border			
VERSIONS				
With Black Cover Glass	TZ07-B	TZ10-B	TZ15-B	TZ19-B
With White Cover Glass	TZ07-W	TZ10-W	TZ15-W	TZ19-W
SOFTWARE				
Operating System	Android 5.0.2 (former Android 4.2)			
FRONT UNIT	7,0" - 17,78 CM WIDESCREEN LED BACKLIGHT TFT	10,1" - 25,6 CM WIDESCREEN LED BACKLIGHT TFT	15,6" - 39,6 CM WIDESCREEN TFT LED BACKLIGHT TFT	18,5" - 47,0 CM WIDESCREEN TFT LED BACKLIGHT TFT
Luminosity	500 cd/m²	200 cd/m²	300 cd/m²	300 cd/m²
Contrast	400 : 1	400 : 1	500 : 1	1000 : 1
Resolution (in Pixel)	WSVGA (1024*600)	WSVGA (1024*600)	WXGA (1366*768)	WXGA (1366*768)
MTBF backlight	50.000 h	30.000 h	50.000 h	50.000 h
Method of operating	Projected capacitive touch screen with 3 mm glass front, dual touch capable			
Rating	IP20 according EN 60529			
GENERAL CHARACTERISTICS				
Processor	fanless ultra low consumption Cortex A9 Quad Core 1,2GHz			
Memory	2 GB			
Free expansion slots	microSD Slot (ext)			
Power Supply	PoE compatible with Cat5e/Cat6 UTP cable, max 100m IEEE Std 802.3at™			
	12-32 VDC			
Power consumption without peripherals	Max. 7 W	Max. 15 W	Max. 25 W	Max. 30 W
Guarantee	24 Months*			
DRIVES				
Storage medium	high speed Flash Memory 8GB (available disk space 4,5 GB)			
MULTIMEDIA				
Inout/output	Microphone (ext) / Loudspeaker 2 Watt RMS (ext)			
Functionality	Integrated Echo cancellation for bi-directional interphone communication			
INTERFACES				
LAN/Ethernet	1 x 10 / 100 Mbps with 802.3at™ (ext) - 1 x WLAN (optional)			
USB (Universal Serial Bus)	2 x USB 2.0 (2x ext) - 1 x mini USB OTG (front accessible)			
Digital Input/Output	GPIO - 4 x Input / 4 x Output			
Battery	Battery free system - RTC with capacitor backup			
SURVEILLANCE				
Status LEDs	1 x RGB LED			
	TZ07	TZ10	TZ15	TZ19
AMBIENT CONDITIONS				
EMC	EN 55011, 55022, 500081			
Temperature	+0°C to +30°C max.			
Relative humidity	5% to 80% at 25°C (no humidity/condense)			
Authorization	CE			
DIMENSIONS				
Cut-Out with MTZ [mm]	129 x 210 x 75	281 x 189 x 80	428 x 291 x 80	507 x 330 x 80
Outside with Frame CTZ [mm]	136 x 213 - This product is delivered with capacitive touch frame	288 x 200 - This product is delivered with capacitive touch frames	435 x 306 - This product is delivered with capacitive touch frames	515 x 345 This product is delivered with capacitive touch frames
Weight	0,9 kg	4 kg	7 kg	9 kg
MECHANICAL CHARACTERISTICS				
Mounting	Fast and easy one man mounting system with wall mount boxes			
Front	Steel and alloy anodized, to use with the wall mount box (MTZ) and cover (CTZ)			
PC Unit	EMC proofed		Alloy anodised, EMC proofed	

* warranty ex works, normally 24 months, fixed at order. All data refer on print date, errors and changes excepted.

NOTE: Internal connections are intended as inside the box unit, normally on pin header, external ones as outside the box. Nevertheless, once mounted in the wall, only connections described as "front accessible" will be reachable for the customer.

5.3 DIVUS TOUCHZONE WALL MOUNT BOX

TYPES	IN WALL MOUNT BOX	IN MORTARLESS MOUNT KIT	IN WALL MOUNT BOX	IN MORTARLESS MOUNT KIT
for DTZ07 – 7,0"	normal mount MTZ07	MTZ07-T	flush mount MTZ07-W	MTZ07-WT

TECHNICAL DATA

Type of design	compact, stable and flat wall mount box	compact mounting kit for mortarless constructions	compact flush mount kit	compact flush mount kit for mortarless constructions
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DIMENSIONS [MM]

Cut-Out	129 x 210 x 75	129 x 210	141 x 220 x 80	141 x 220 x 80
Fixing kit 7,0"		190 x 210 x 75		190 x 210 x 75
Weight	ca. 0,2kg	ca. 0,3kg	ca. 0,2kg	ca. 0,3kg

MECHANICAL CHARACTERISTICS

Wall mount box	steel plate with cover for clean installation
Cable access	1xbottom, 1xleft
Grounding	the MTZxx needs to be professionally grounded

TYPES	IN WALL FLUSH MOUNT BOX	IN MORTARLESS FLUSH MOUNT BOX
for TZ10 – 10,1"	MTZ10	MTZ10-T
for TZ15 – 15,6"	MTZ15	MTZ15-T
for TZ19 – 18,5"	MTZ19	MTZ19-T

TECHNICAL DATA

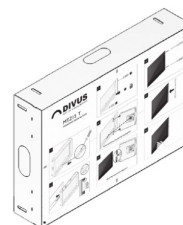
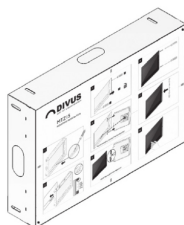
Type of design	compact, stable and flat wall mount box for flush mounting	compact flush mounting kit for mortarless constructions
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DIMENSIONS [MM]

Cut-Out/fixing kit 10,1"	281 x 189 x 80	281 x 189 x 80 / 287 x 189 x 80
Cut-Out/fixing kit 15,6"	428 x 291 x 80	428 x 291 x 80 / 434 x 291 x 80
Cut-Out/fixing kit 18,5"	507 x 330 x 80	507 x 330 x 80 / 513 x 330 x 80
Weight	ca. 4kg	ca. 4kg

MECHANICAL CHARACTERISTICS

Wall mount box	steel plate with cover for clean installation	steel plate with cover for clean installation
Cable access	1xtop, 1xbottom, 1xleft, 1xright	1xtop, 1xbottom, 1xleft, 1xright



Grounding	the Wall Mount Box needs to be professionally grounded
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MONTAGE / INSTALLATION INSTRUCTIONS / INSTALLAZIONE

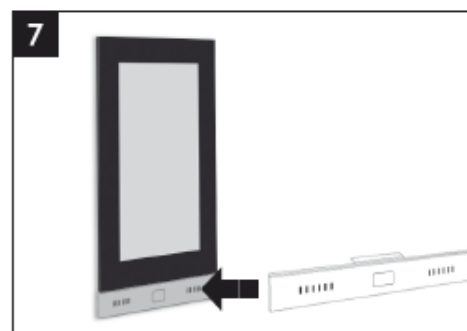
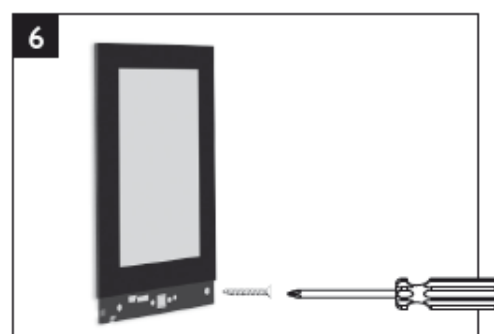
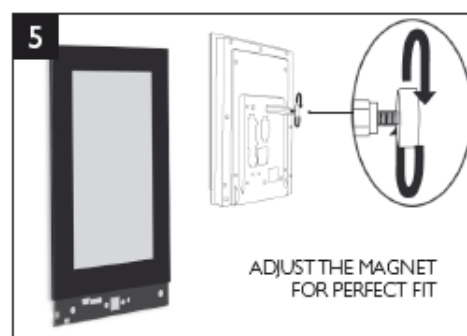
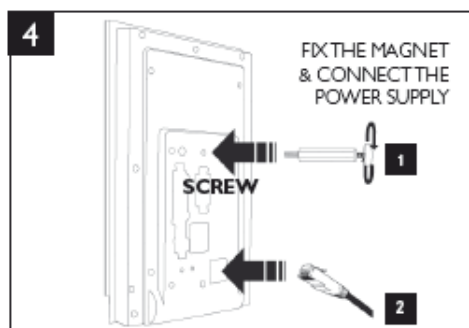
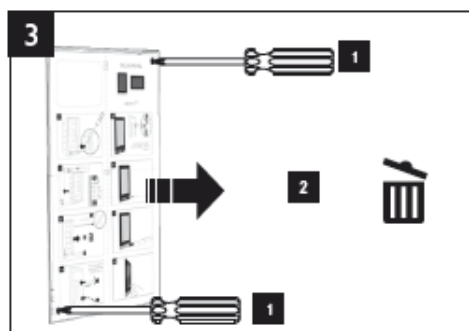
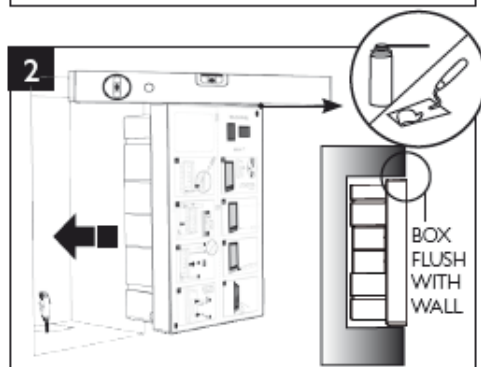
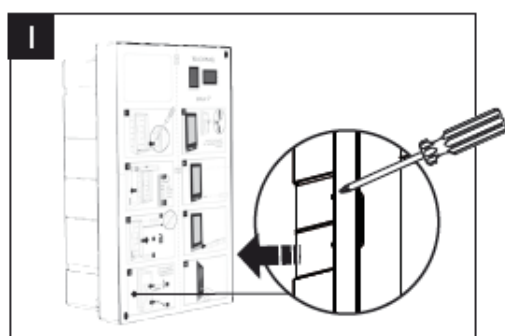
Die Unterputzdose und das Trockenbaukit können in einem Ausschnitt in der Wand oder in einem bis zu 1,5 cm dünnen Möbelstück, sowie in einem Trockenbau befestigt werden. Der Ausschnitt muss den in den technischen Details spezifizierten Maßen entsprechen und beim Wandeinbau mindestens 9 cm tief sein.

Im Wandausschnitt wird die Unterputzdose eingemauert, während sie im Möbelstück angeschraubt werden kann. Es ist wichtig, dass die vordere Kante der Unterputzdose plan und waagrecht zur Oberfläche der Wand oder des Möbelstückes ist.

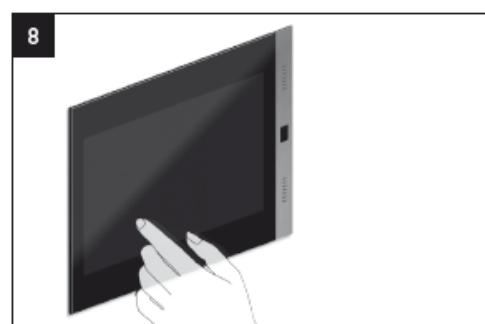
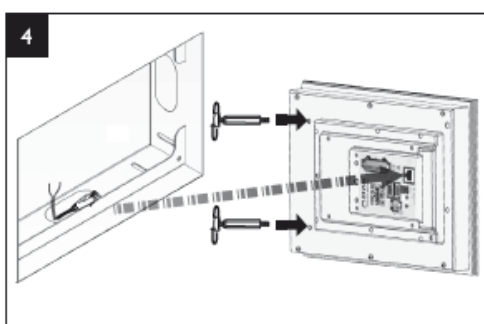
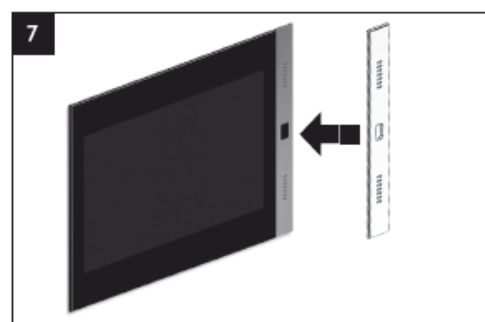
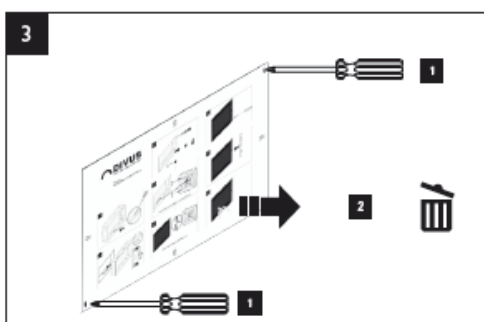
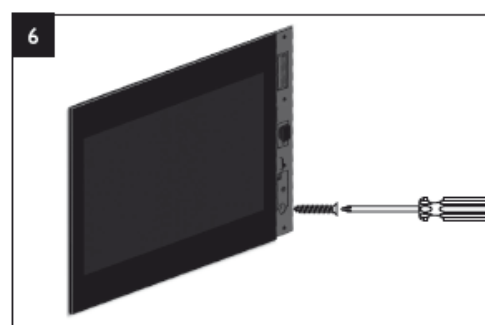
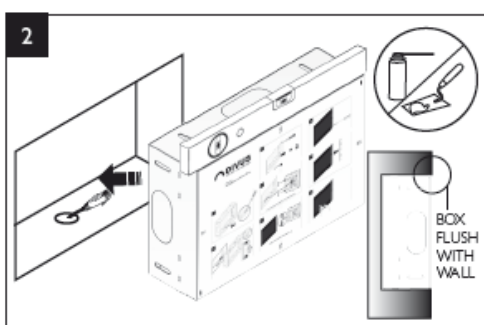
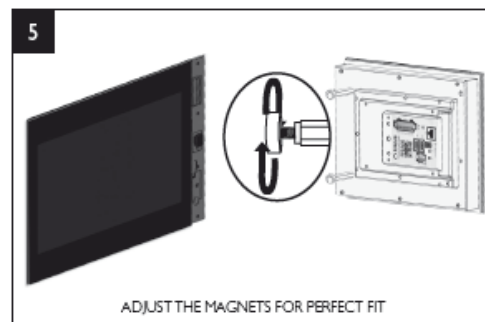
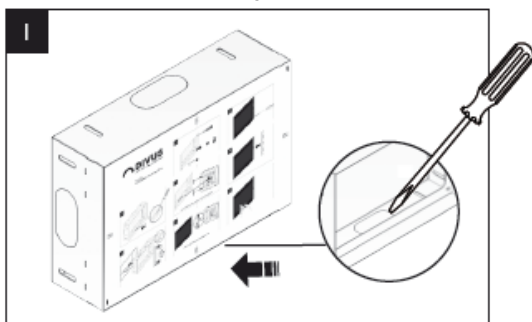
The wall mount box and the mounting kit may be installed in a cut out in the wall, in a wooden structure thick at least 1,5 cm or in a dry mortarless construction. The cut out has to respect the sizes specified in the technical data and has to be at least 9 cm deep.

In the wall cut out, the box can be built in while it can be screwed on in a piece of furniture. It is important that the fore edge of the box is flat and horizontally to the surface of the wall or the piece of furniture.

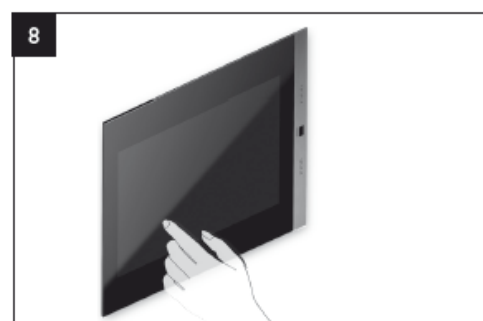
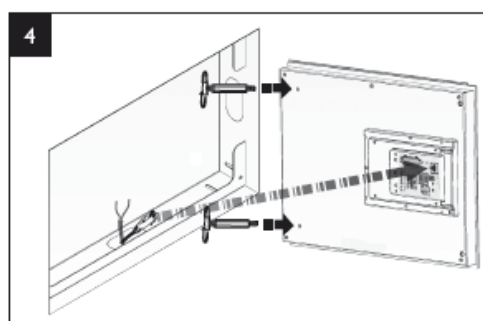
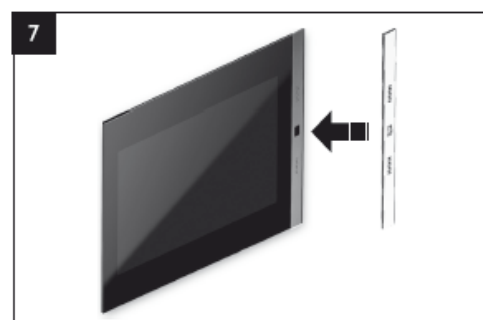
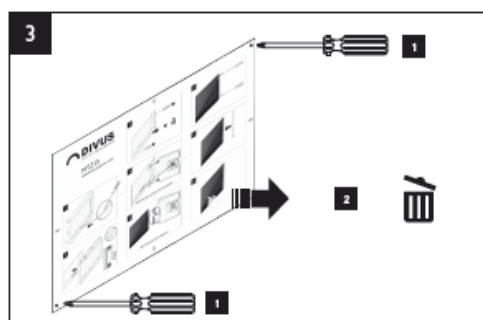
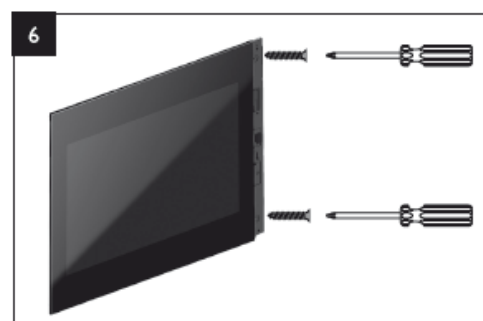
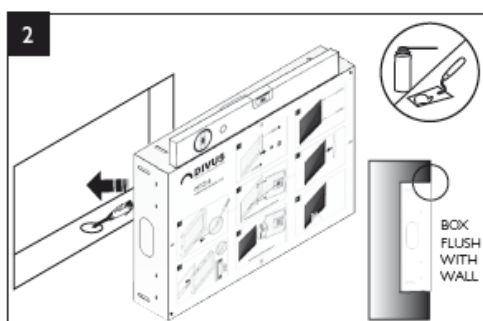
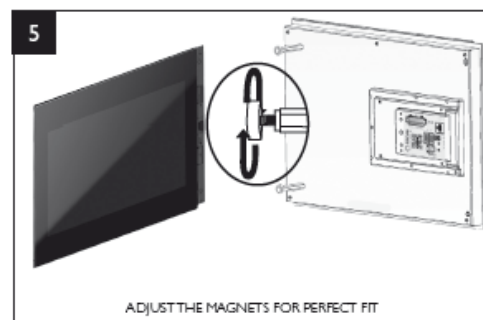
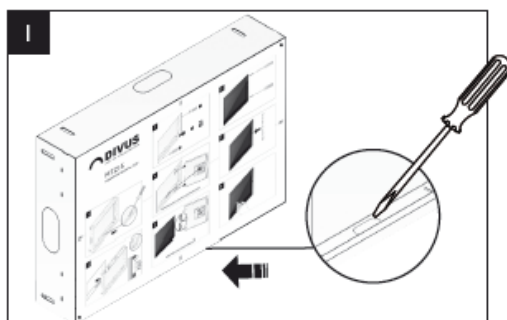
Wall mount kit – mounting MTZ07



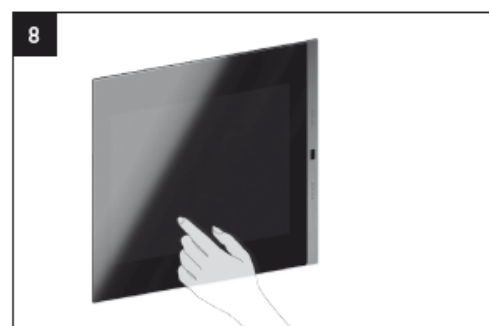
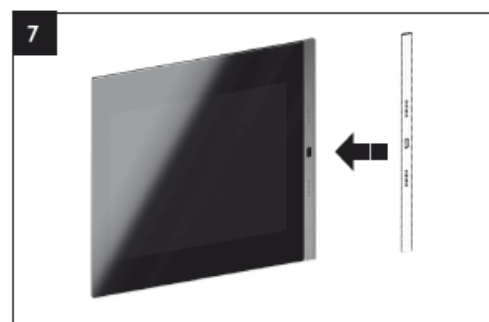
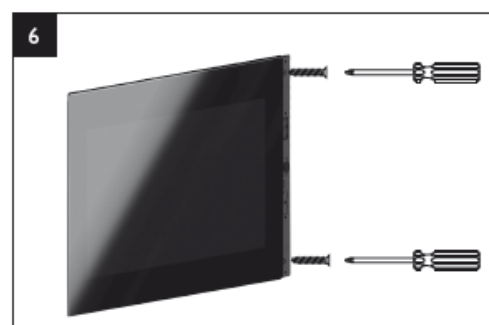
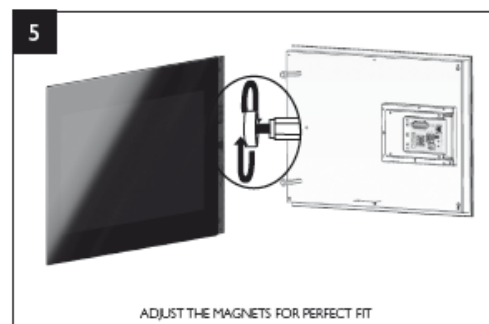
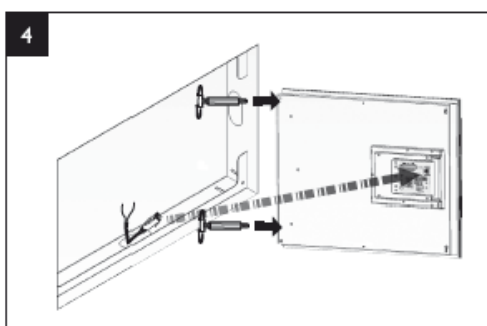
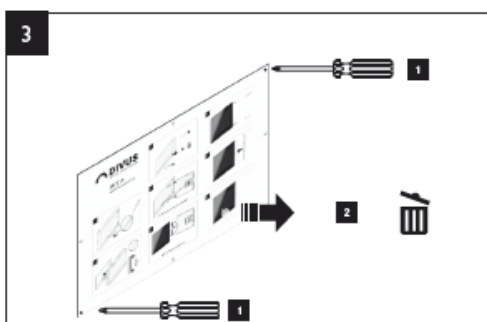
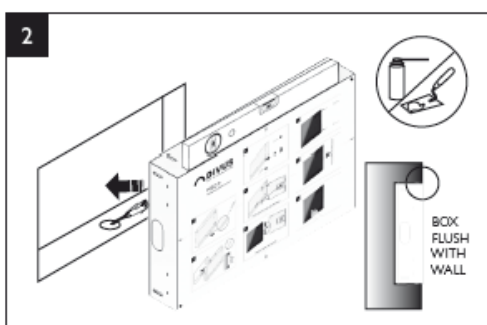
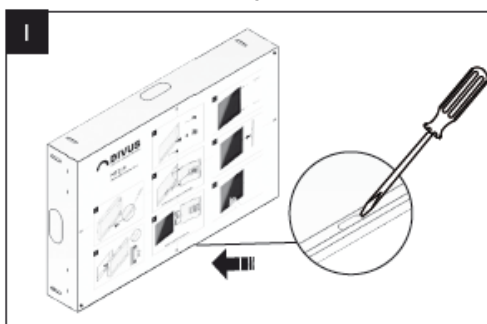
Wall mount kit – mounting MTZ10



Wall mount kit – mounting MTZ15



Wall mount kit – mounting MTZ19



5.4 MAINTENANCE AND UPKEEP

DIVUS TOUCHZONE is a completely fanless system thus strongly reducing the necessary maintenance expenses.



NOTE: Additional information about the components which are used in DIVUS TOUCHZONE may be found in the original documentation of the manufacturer.

6 Appendix

6.1 RECYCLING INFORMATION



English

Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste by products. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Deutsch

Entsorgung von gebrauchten Elektrischen und Elektronischen Geräten (anzuwenden in den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem für solche Geräte)

Das Symbol (durchgestrichene Mülltonne) auf dem Produkt oder seiner Verpackung weist darauf hin, dass dieses Produkt nicht als normaler Haushaltsabfall behandelt werden darf, sondern an einer Annahmestelle für das Recycling von elektrischen und elektronischen Geräten abgegeben werden muss. Durch Ihren Beitrag zur korrekten Entsorgung dieses Produktes schützen Sie die Umwelt und die Gesundheit Ihrer Mitmenschen. Unsachgemäße oder falsche Entsorgung gefährden Umwelt und Gesundheit. Weitere Informationen über das Recycling dieses Produktes erhalten Sie von Ihrer Gemeinde oder den kommunalen Entsorgungsbetrieben.

Italiano

Informazioni sullo smaltimento delle vecchie apparecchiature elettriche ed elettroniche (valido per i paesi europei che hanno adottato sistemi di raccolta separata)

I prodotti recanti il simbolo di un contenitore di spazzatura su ruote barrato non possono essere smaltiti insieme ai normali rifiuti di casa. I vecchi prodotti elettrici ed elettronici devono essere riciclati presso un'apposita struttura in grado di trattare questi prodotti e di smaltirne i loro componenti. Per conoscere dove e come recapitare tali prodotti nel luogo a voi più vicino, contattare l'apposito ufficio comunale. Un appropriato riciclo e smaltimento aiuta a conservare la natura e a prevenire effetti nocivi alla salute e all'ambiente.

Français

Information sur l'élimination des anciens équipements électriques et électroniques (applicable dans les pays de l'Union Européenne qui ont adopté des systèmes de * collecte sélective)

Les produits sur lesquels le pictogramme (poubelle barrée) est apposé ne peuvent pas être éliminés comme ordures ménagères. Les anciens équipements électriques et électroniques doivent être recyclés sur des sites capables de trier ces produits et leurs déchets. Contactez vos autorités locales pour connaître le site de recyclage le plus proche. Un recyclage adapté et l'élimination des déchets aideront à conserver les ressources et à nous préserver des leurs effets nocifs sur notre santé et sur l'environnement.

Nederlands

Informatie over het weggooien van elektrische en elektronische apparatuur (particulieren)

Dit symbool geeft aan dat gebruikte elektrische en elektronische producten niet bij het normale huishoudelijke afval mogen. Lever deze producten in bij de aangewezen 'inzamelingspunten, waar ze gratis worden geaccepteerd en op de juiste manier worden verwerkt, teruggewonnen en hergebruikt. Voor inleveradressen zie www.nvmp.nl, -- www.ictmilieu.nl, www.stibat.nl. Wanneer u dit product op de juiste manier als afval inlevert, spaart u waardevolle hulpbronnen " en voorkomt u potentiële negatieve gevolgen voor de volksgezondheid en het milieu, die anders kunnen ontstaan door een onjuiste verwerking van afval.

Espanol

Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países de la Unión Europea que hayan adoptado sistemas independientes de recogida de residuos)

Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos. Los equipos eléctricos y electrónicos al final de la vida útil, deberán ser reciclados en instalaciones que puedan dar el tratamiento >• adecuado a estos productos y a sus subproductos residuales correspondientes. Póngase en contacto con su administración local para obtener información sobre el punto de recogida más cercano. Un iralamienlo corredo del redclaje y la eliminación de residuos ayuda a conservar los recursos y evita al mismo tiempo efectos perjudiciales en la salud y el medio ambiente.