

# PocketBook

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*O'reilly*

## User Manual

### PocketBook SURFpad 2



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# Safety Precautions

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Before start working with the Device, please, read this section carefully. Following these instructions will help you ensure your safety and extend service life of the Device.

## Storage, Carriage and Usage Conditions

Device operating temperature range is 0°C to +40°C, so don't expose the Device to excessively high or low temperatures. Never leave cables near heat sources. Heated cables or their insulation may become deformed or damaged, which could lead to fire or electric shock.

Try to avoid next impacts:

- direct sunlight
- direct flame or smoke (cigarette, lighter, open fire etc.)
- exposure to liquids or damp (do not use the Device in the rain, in the street at higher humidity, near bodies of water etc.)
- penetration of liquids or moisture
- exposure to strong electromagnetic fields, electrostatic charges and artificial sources of UV electromagnetic radiation
- excessive mechanical pressure on the screen, connectors and keys of the Device.

Do not leave the Device for a long time in poorly ventilated environment, e.g. in a car or in closed tight boxes/packaging.

Neither drop nor try to bend the Device. Protect the screen from objects that may scratch or damage it. To ensure adequate protection of the screen, we recommend storing the Device in a protective and/or hard cover.

Keep away from children.

## Maintenance

Do not disassemble or modify the book reader.

Do not use the Device with a damaged battery, charger (broken case, poor contact, broken feed cable) or SD card. If the battery is damaged

(cracked case, leakage of electrolyte, off-shape etc.) it should be replaced by the authorized personnel. Usage of home-made or modified batteries may cause an explosion and/or damage the Device.

Do not use organic or inorganic solvents (e.g. benzoyl etc.) to clean the screen/case. Use a soft cloth to remove dust from the Device's surface. Apply a few drops of distilled water to remove dirt.

Up to five faulty pixels are acceptable in the screen and do not constitute a warrantable defect of the screen.

By the end of product guarantee term, please contact the nearest authorized service facility for examination on the subject of security is maintained.

For detailed information about service centers in your region please visit the official website of PocketBook International: <http://www.pocketbook-int.com/support/>.

## **RF Safety**

The Device receives and transmits radio frequencies and may interfere with radio communications and other electronic equipment. If you use personal medical Devices (e.g. a pacemaker or hearing aid) please contact your doctor or the manufacturer to learn whether or not such medical devices are protected against external RF signals.

Do not use wireless communication in places where it is prohibited, e.g. onboard a plane and in hospitals – this may affect airborne avionics or medical equipment.

## **Utilization**

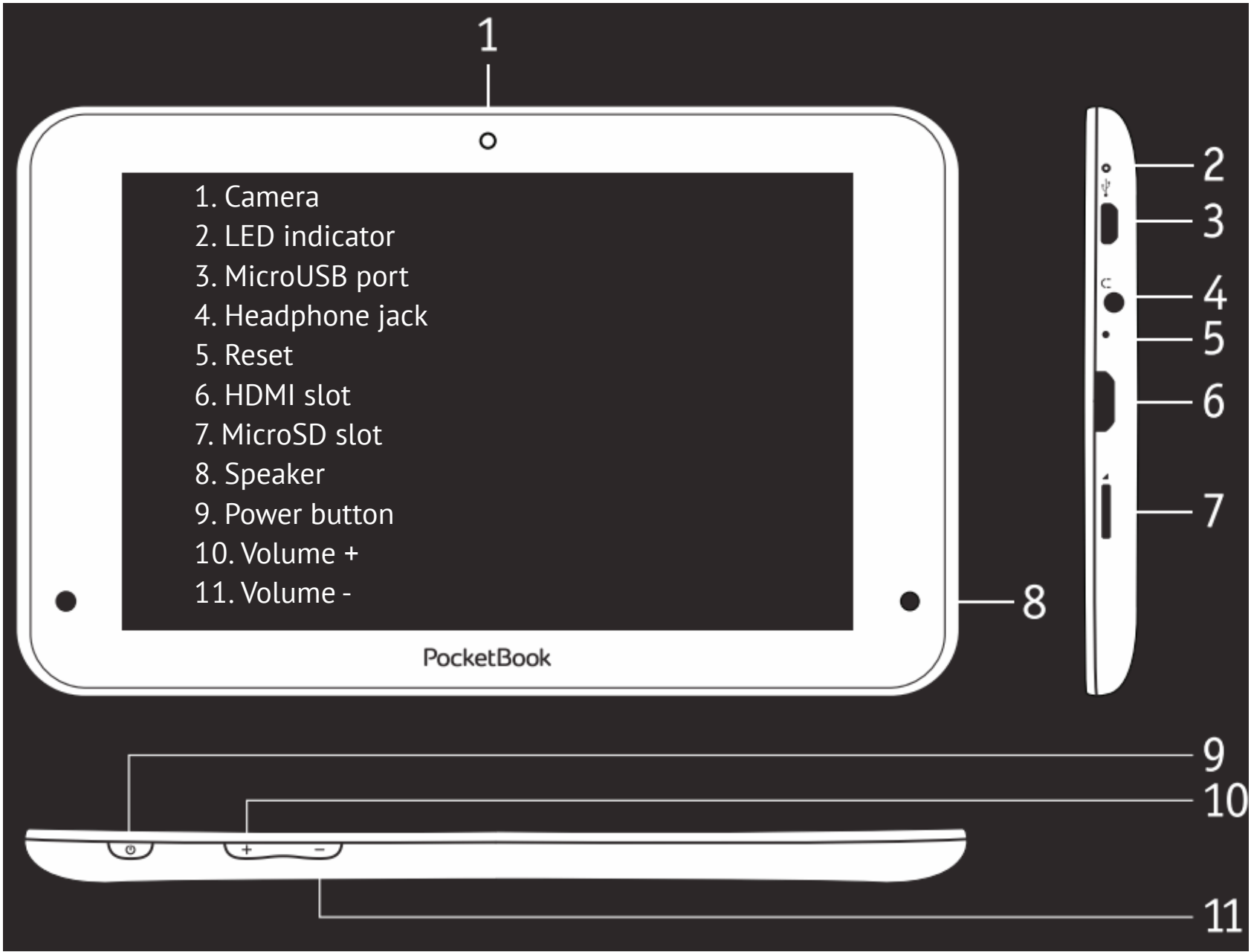
Incorrect disposal of this Device may have adverse impacts on the environment and public health. To prevent such consequences follow the device-specific disposal requirements. Recycling of these materials helps preserve natural resources. For more information regarding recycling issues please contact local municipal authorities, your

domestic waste collection service, store where you purchased the Device, or the authorized service center.

Disposal of electric and electronic components (the Directive is applicable to the EU and other European countries where separate waste disposal systems exist). In other countries dispose batteries accordingly to local laws.

Do not destroy the battery by burning it to avoid the danger of explosion!

# Appearance



# Technical Specifications

Display 7” touch screen 1280×800	
Processor 1,5 GHz	
RAM 1 GB	
Internal Storage 8 GB *	
Platform Android™ 4.1	
Input/Output Ports	1×micro USB, 3.5 mm audio jack, mini HDMI, 3G modem
Card reader micro SD up to 2 TB	
Communications Wi-Fi (b/g/n), 3G (HSDPA/UMTS)	
Camera 0,3 Megapixels	
Audio 2x0,5 W speaker, microphone	
Accelerometer Yes	
Battery	Li-Polymer, 4000 mAh, 3,7 V, up to 6 hours of playing video **
Dimensions 194×121×9.9 mm	
Weight 300 g	
Text Formats	epub, fb2, txt, doc, rtf, html, chm, tcr, pdf, pml
Image Formats JPEG, PNG, BMP, GIF	
Audio Formats MP3, WMA, AAC	
Video Formats	MKV, AVI, MP4, FLV, WEBM, 3GP, MOV, MPG, WMV, divX, Xvid, mpeg-4 SP, mpeg-4, ASP, VC1, H264, H263, wmv 9, MPEG-1, MPEG-2

\* The actual available internal storage size may vary depending on the software configuration of your device

\*\* Battery life and values mentioned above might vary depending on usage mode, connectivity and settings

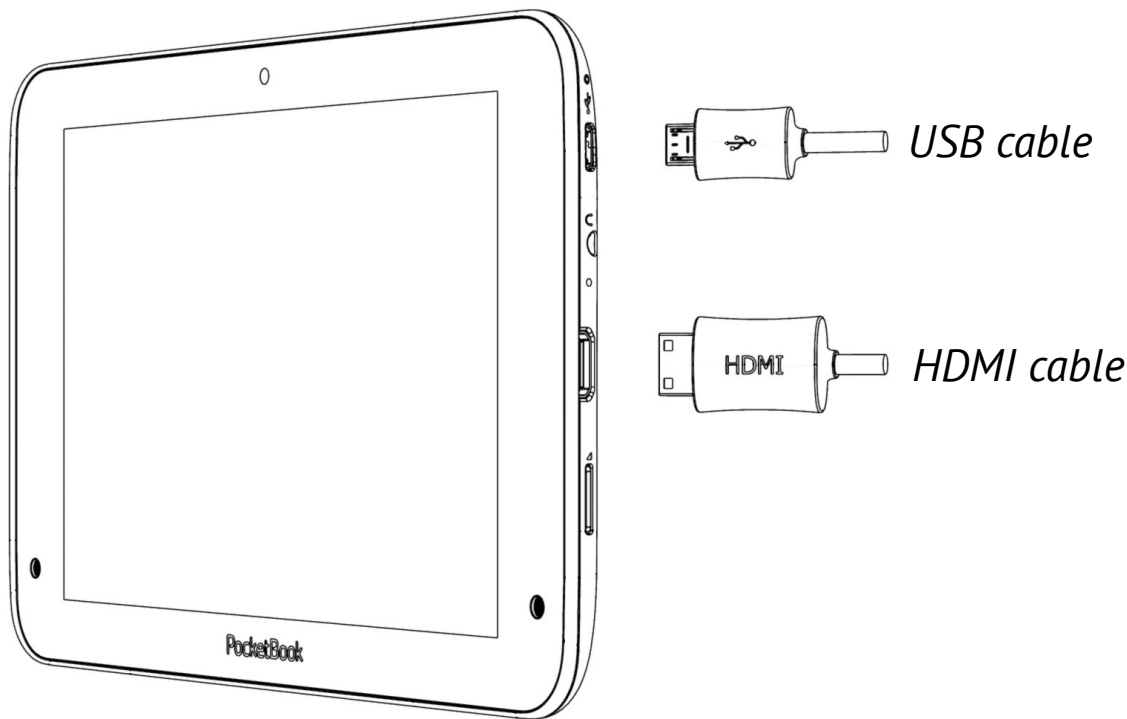


# Getting Started

## CHARGING THE BATTERY

The battery of your Device is not fully charged as you unpack it, so you need to charge it for 8-10 hours. It's strongly recommended to keep the Device off during the first charge, otherwise power consumption may be more, than charging, especially when you charge it from PC. Follow next steps to charge the battery:

1. Make sure the Device is off. In opposite case, press **On/Off** button for a few seconds and select *Power Off* in menu appeared. The Device will shut down.
2. Connect your Device to a computer or power supply using the microUSB cable included in package.
  - Connect a USB cable to the jack of the Device:



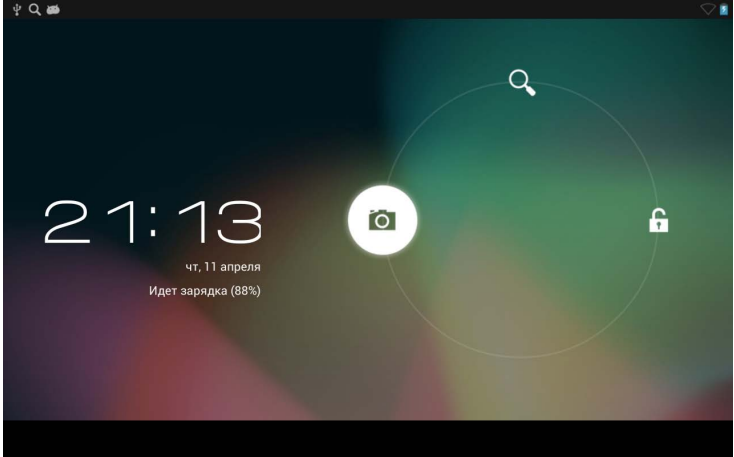
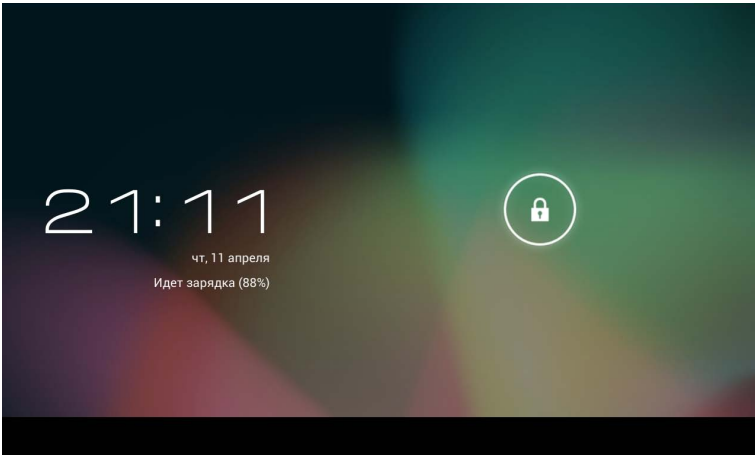
**ATTENTION!** Incorrect connection of the USB cable can seriously damage the Device. Damages of the Device, caused by incorrect connection, aren't covered by warranty.

- While the USB cable is connected, the Device should be near to PC/charger.

**NOTE** It's recommended to charge the battery using the charging device. In case if you charge the battery from PC, it's better to keep the Device off, because power consumption may be more, than charging.

UNLOCK YOUR DEVICE

Tap and drag the lock out of the circle to one of icons to unlock your Device.



HOME SCREEN

Search in Google or Yandex

Notification area

Open a list of applications and widgets

Back - return to the previous screen

Return to Home Screen

Applications

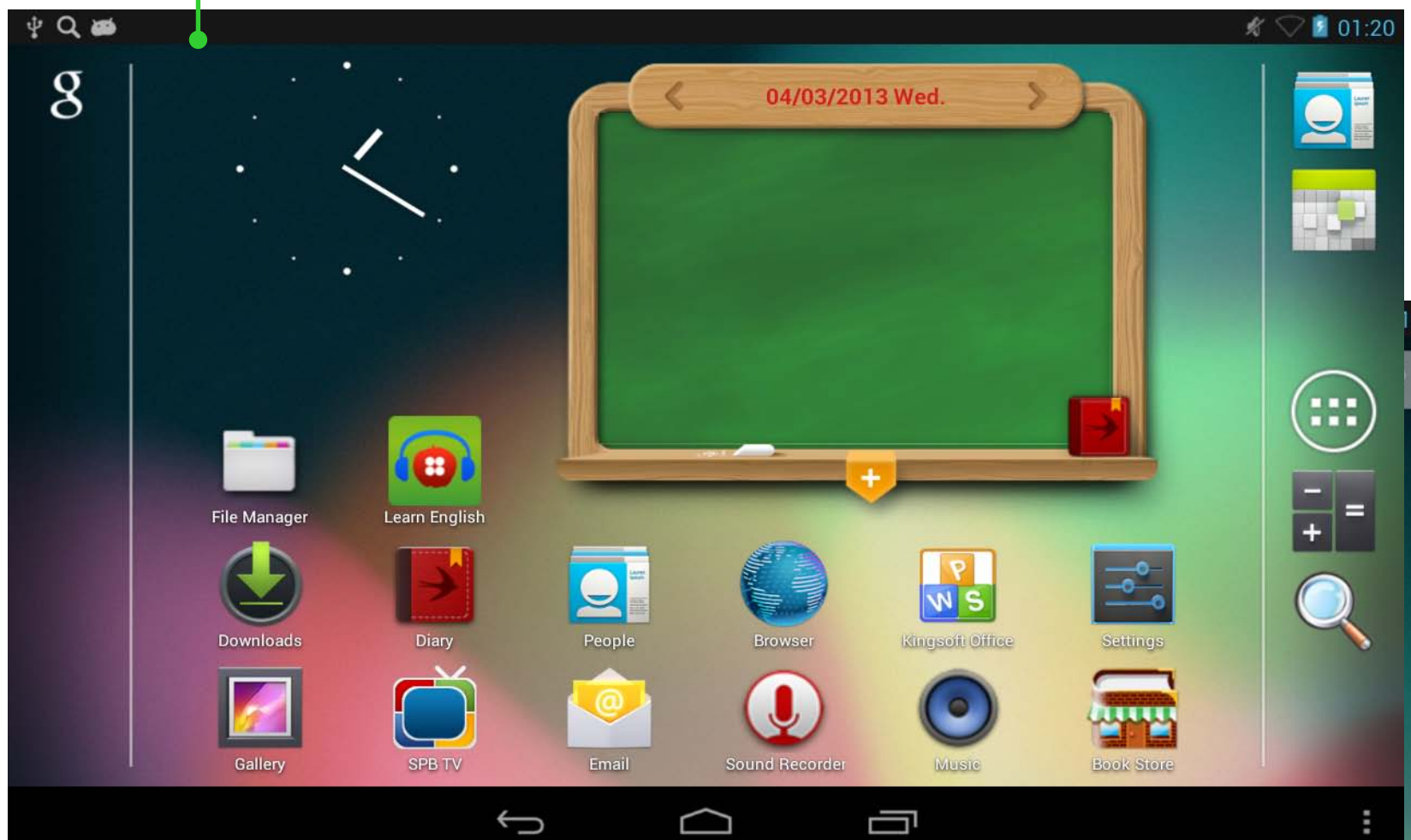
Application/section menu

Last opened applications

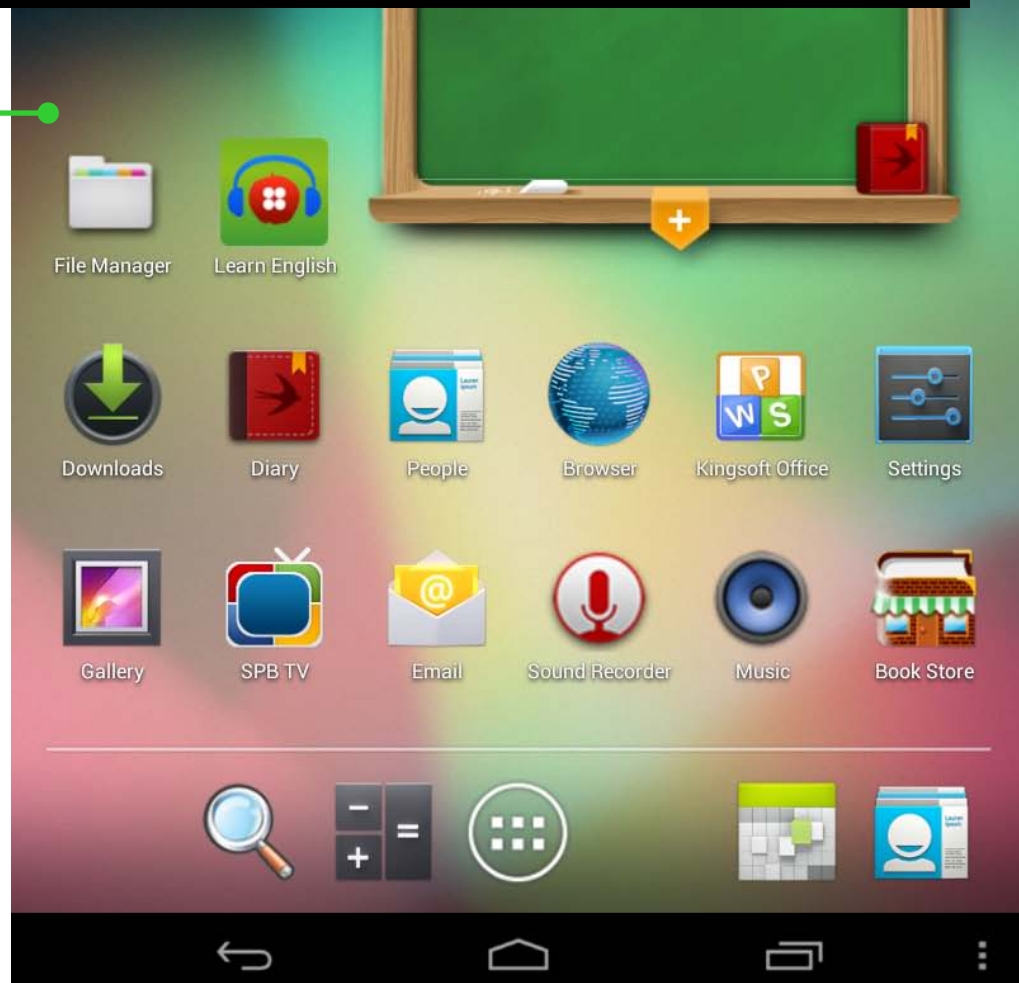
## DISPLAY VIEWS

The screen orientation is changed automatically when you hold the Device horizontally to vertically, and vice versa. To enable/disable screen auto-rotation, go to *Settings > Device > Display*.

Landscape view



Portrait view



## FINGER GESTURES

### Tap

Short soft touch on an item (e.g. file, application, folder or menu item) opens it.



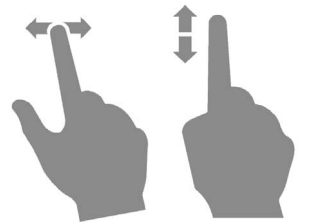
### Press and Hold

This gesture calls context menu with available options for an item. While you at Home Screen, it allows to move an item.



### Slide

Slide means move finger across the screen vertically or horizontally.



### Drag

To drag an item, press and hold it until you reach final position.



### Flick

Flicking is similar to sliding, but you need to move your finger more rapidly. It's used for scrolling through lists.

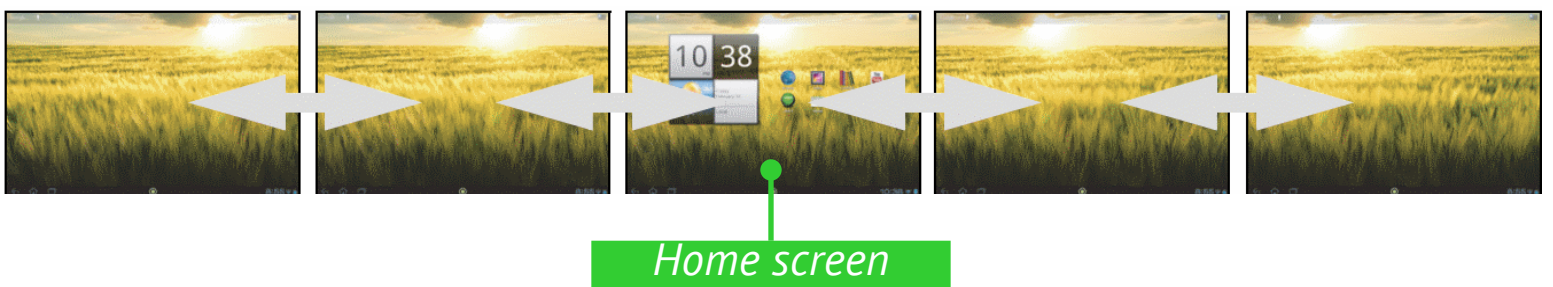
### Pinch

In particular applications (e.g. *Maps*) to scale an image, you can 'pinch' the screen: move to zoom out or spread to zoom in two fingers.



## EXTENDED HOME SCREEN

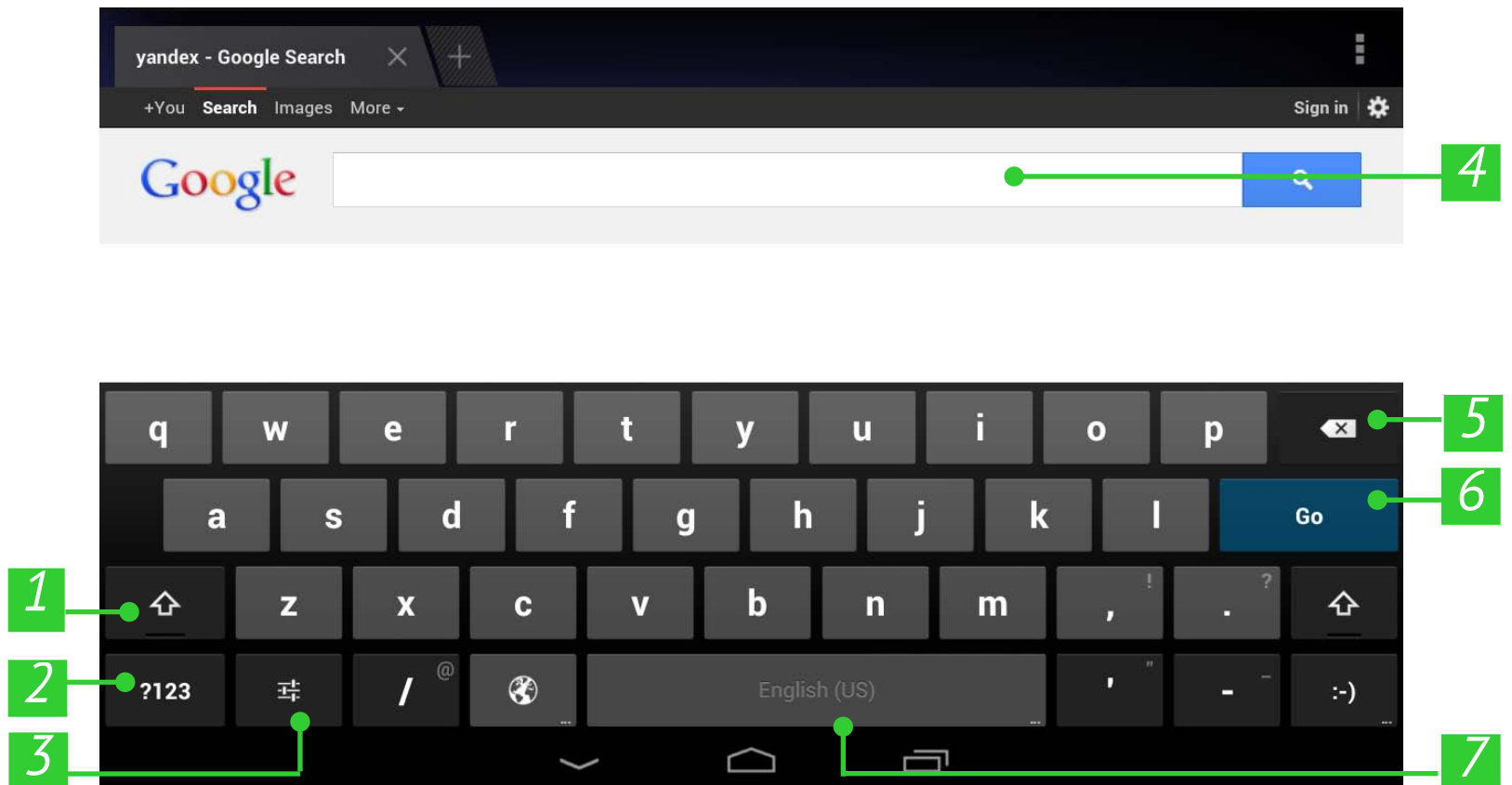
The Home screen consists of 5 desktops. To scroll the Home screen, move your finger across the screen or tip the counter icon in the left or right corner of the screen.






## USING THE ON-SCREEN KEYBOARD

To access the on-screen keyboard, touch any textbox. Enter your text by touching the keys of the on-screen keyboard.



1. Switches between upper and lower case;
2. Switches to symbol mode;
3. Settings and additional features;
4. Field for text typing;
5. Backspace – delete a previous sign;
6. Input text;
7. Continuous press changes input languages.

## MENUS

Most applications have two types of menu: application/section menu and context one. Application/section menu is brought up by pressing **Menu** button . Context menu is called by continuous touch on a screen or item, depending on application.

**NOTE** Application/section menu is available not for all applications. In this case nothing happens when you press the **Menu** button.

## ESTABLISHING WI-FI

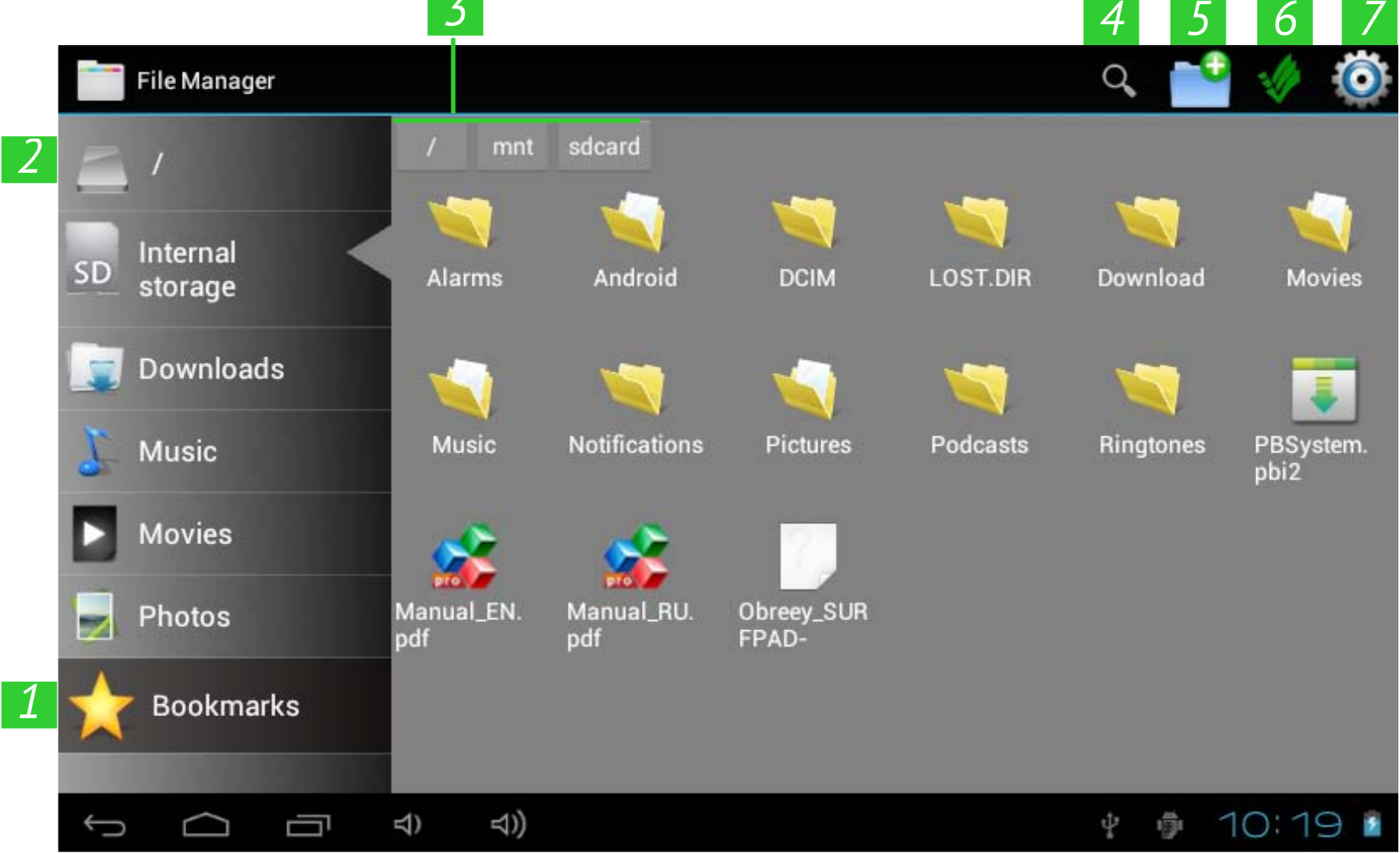
If you skipped Wi-Fi configuration during the initial setup, you can configure it later.

1. Go to *Settings > Wireless & networks*. Check Wi-Fi checkbox
2. The list of available networks will be displayed.
3. The Device automatically detects security type, and if there's no need to specify additional data (e.g. pre-shared key), connection would be established.
4. Otherwise, you need to specify password and other security settings (if required) manually.

You can read about advanced network configuration in the Wi-Fi Connection chapter of the current User Manual.

## MANAGE DATA

Use *File Manager* to operate with files, stored in internal Device memory and external microSD card. To open *File Manager*, press on its icon in the list of applications.



- 1. Bookmarks – opens a list of files and folders added to Bookmarks
- 2. Root folder – returns to the highest level of file hierarchy;
- 3. Path to folder location;
- 4. Search – opens search textbox;
- 5. Create folder;
- 6. Select several files/folders;
- 7. File Manager settings.

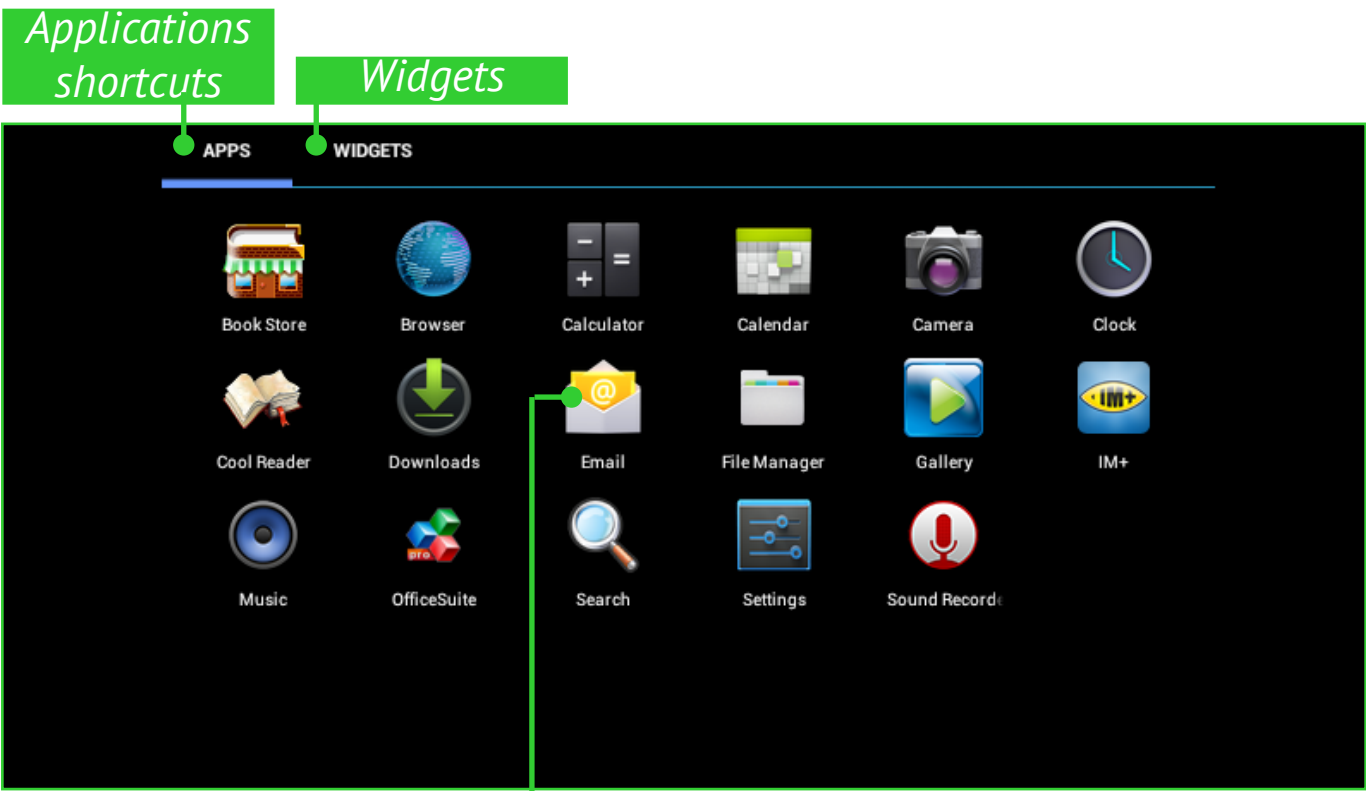
Context menu, evoked by continuous press on element, allows moving, copying or deleting files.

APPLICATION LAUNCHING

The application can be launched by short press on the icon on the Homescreen or from the list of available applications. You can create a shortcut to an application at any desktop. Scroll Home Screen to the desktop you need, then open the application list.



Touch and hold desired application icon until the desktop appears. After you release a finger, an icon remains on a desktop. To launch application tap on its icon.



*To place a shortcut on Homescreen, press and hold the one, selected in the list*



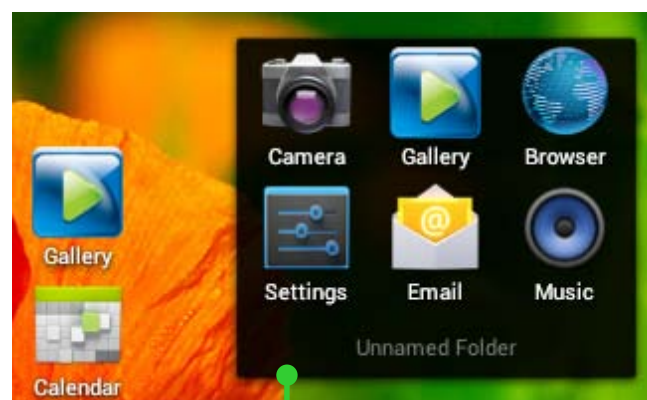
## CREATING FOLDERS ON THE HOME SCREEN

The icons on the desktop can be grouped into folders. To create a folder, touch and hold the icon and drag it to the icon to which you want to merge, then release.



You can add the icons of other programs to this folder in a similar way. To rename a folder, touch to its name and type the new name on the appeared keyboard.

To open an application, located in a folder, touch the icon of a folder and choose the application in the displayed list.



*Список приложений в папке*

## APPLICATION REMOVING

After continuous touch on icon or widget *Sign of application removing* ✕ is activated. To delete element from the home screen or a folder, drag-and-drop it to this sign and release after it highlights in red.

*Sign of application removing*

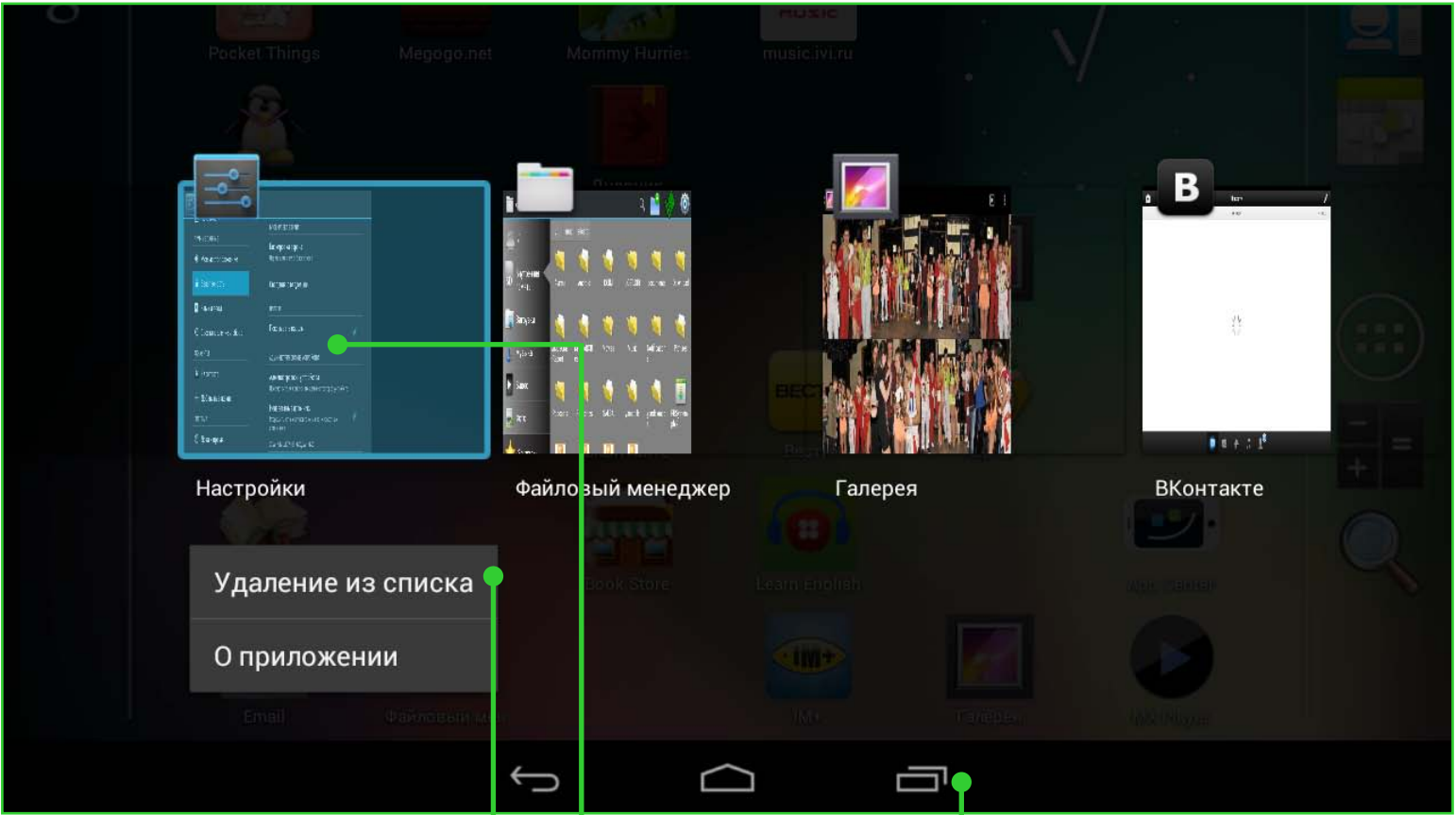


## LIST OF OPENED APPLICATIONS

Opened applications are displayed in the list of opened applications (button for invoking a list is located on the left bottom corner of the screen). You can close application:












1. Invoke the list of opened applications;
2. Press and hold the application, you need to close;
3. When the dialog window appears, press *Remove from list*.

Applications, launched by the system automatically, can be stopped in the *Settings > Apps > Running > Stop* (see more detailed information in Information about Apps section of the current User manual).



- 1) Button for invoking opened applications
- 2) Press and hold on the application in the list
- 3) Press 'Remove from list'

PREINSTALLED APPLICATIONS

Browser	Supports functions for comfortable web-pages viewing	
Calculator	Simple Android calculator	
Calendar	Events calendar with Google synchronizing	
Camera	Standard Android (photo/video) camera application	
Clock	Clock with alarm and screen saving function	
People	List of contacts	
Downloads	Download tool for music, documents, video and other files	
Email	Email client supporting POP3, IMAP, Exchange	
File Manager	Standard file manager	
Gallery	Picture gallery supporting JPEG, PNG, BMP, GIF, video formats, and Google Picasa synchronization	
Kingsoft Office Multilang	View and edit popular office file formats	

**MX Player** Video Player with advanced features



**Search** Search by Google-in Internet or within content



**Settings** Set your options and preferences



**Music** Music player, supporting MP3, WMA, AAC



**Diary** Organize your study schedule and homework



**Book Store** Book store application



**AndroidPit** Application Store



**CoolReader** Best Android open-source e-reader



**IM+** The most popular IM client supporting various protocols



**LearnEnglish** Popular English learning app from British Council



**SPB TV** Popular TV channels streaming



**Tux Rider** Accelerometer game



## PBI PACKAGES SUPPORT

Sometimes the distribution of several programs is stored in one pbi package. To install these programs open the package and mark the programs you want to install.

Pre-installed pbi package is located in the *mnt/sdcard/PB System.pbi2* folder. To install it **manually**, go to the *File manager* and launch *PB System.pbi2* file. Sometimes the wizard **automatically** proposes to install the *pbi* package:

- after formatting the device (without deleting user configurations);
- after installing firmware.

After starting the wizard do the following:

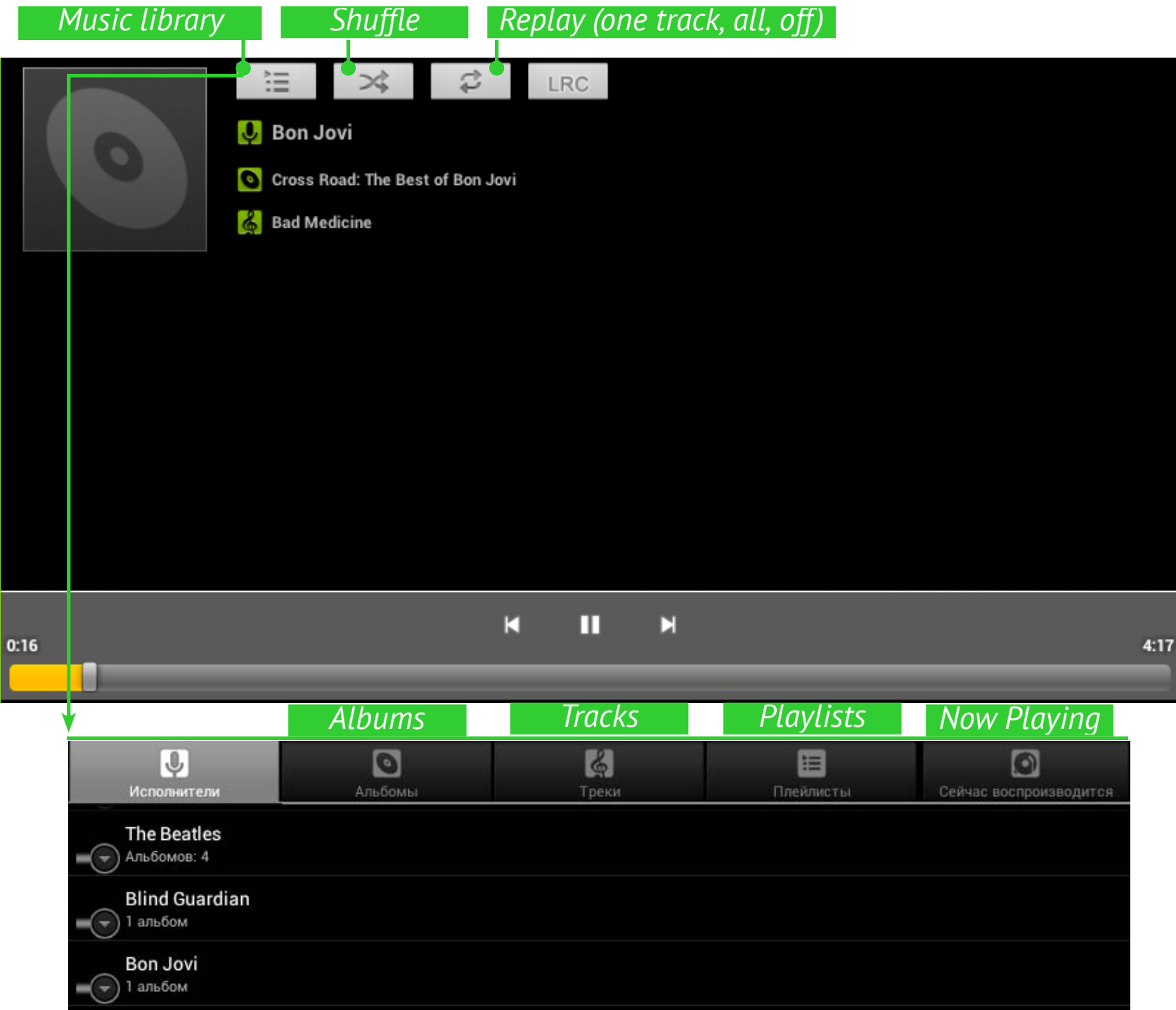
1. Check the applications you want to install and uncheck the applications you don't want to install.
2. Press *Install*.
3. After unpacking and installing selected applications press *Finish*.



LISTEN TO THE MUSIC

Music Library

In Music Library you can see all the music, stored in the Device’s memory.

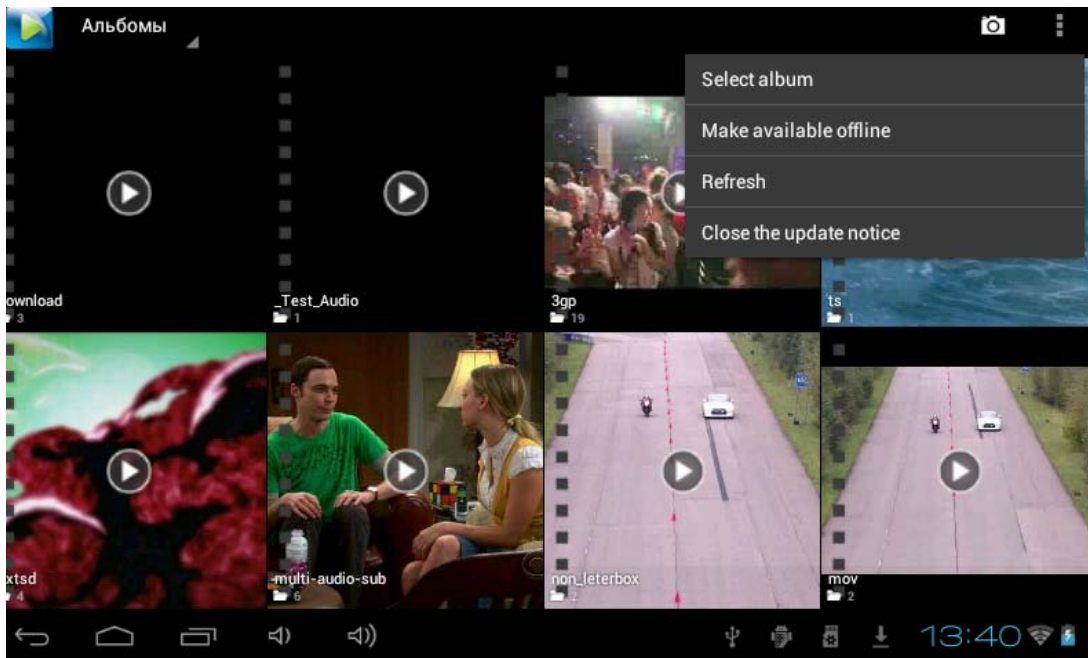



To create new playlist, bring up song’s context menu, select *Add to playlist*, and select *New*.

Volume is controlled by **Volume +/-** hardware buttons on a side panel.

GALLERY

*Gallery* is an application for images and video management. To open an image in full screen, just touch it. To scroll the collection use sliding gesture. To zoom an image, use scaling gestures (pinch/spread). From Gallery menu you can delete, crop, set as wallpaper or contact avatar, or rotate image.



Application supports almost all video formats. You can view file information in the application menu .

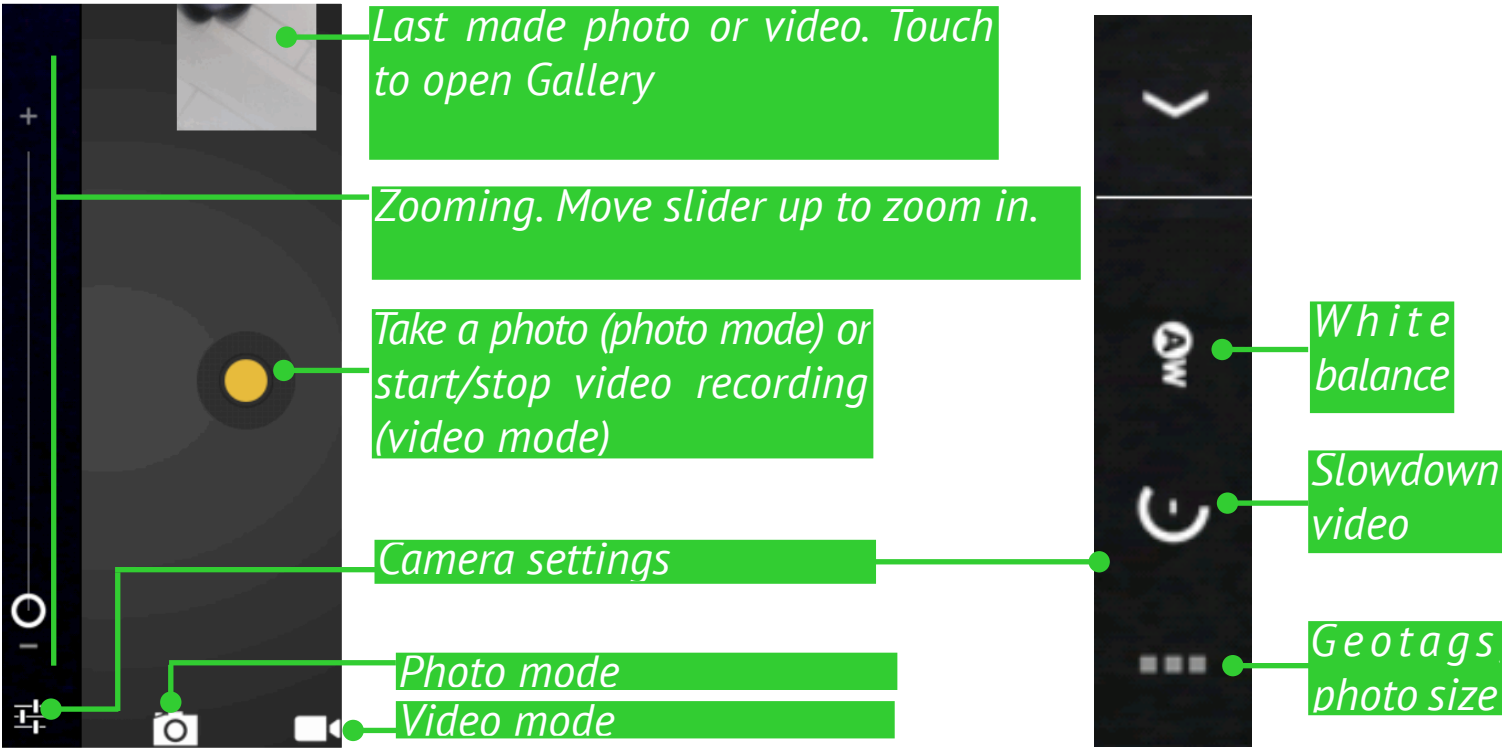
MX PLAYER

MX Player is an application for viewing video. Control panel is presented below:

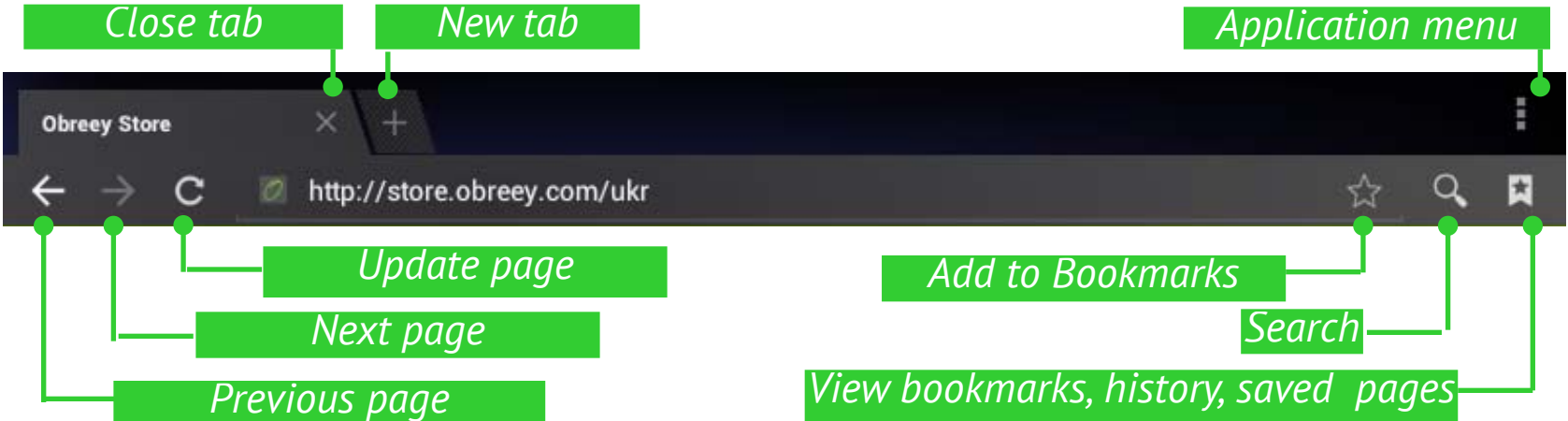


## CAMERA

### Photo and Video Modes

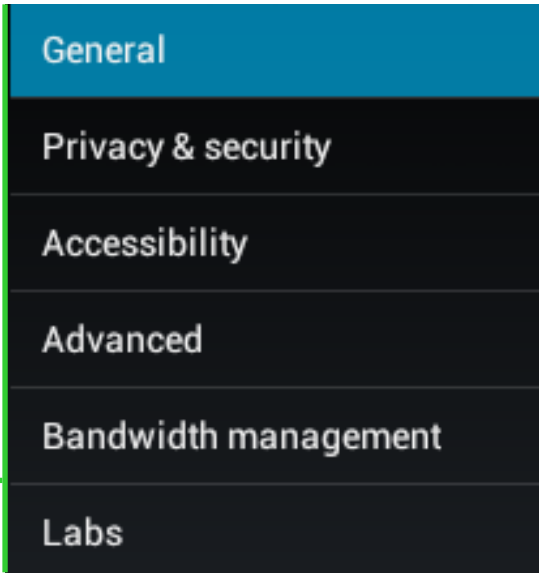


## BROWSER



Using *Application menu* you can perform the following operations:

- *Stop/Update;*
- *New tab;*
- *New incognito tab*
- *Share page;*
- *Find on page;*
- *Request desktop site;*
- *Save for offline reading;*
- *Page info;*
- *Settings.*





## EMAIL

### Setting Up the Account

1. At the first run you will be suggested to enter from on-screen keyboard your account information: email address and password.
2. If application isn't able to detect incoming and outgoing server settings automatically, you would need to specify these settings manually (they should be given by your email service provider).
3. Next step is to specify account name, as it will be stored in the Device (e.g. *Personal Mail* or *Office Mail*) and your name, as it will be displayed in *From* field of your composed messages.
4. To add an account, select corresponding item in application menu.


Accounts list, combined inbox, starred messages and drafts will be displayed in *Accounts* section.

### Inbox

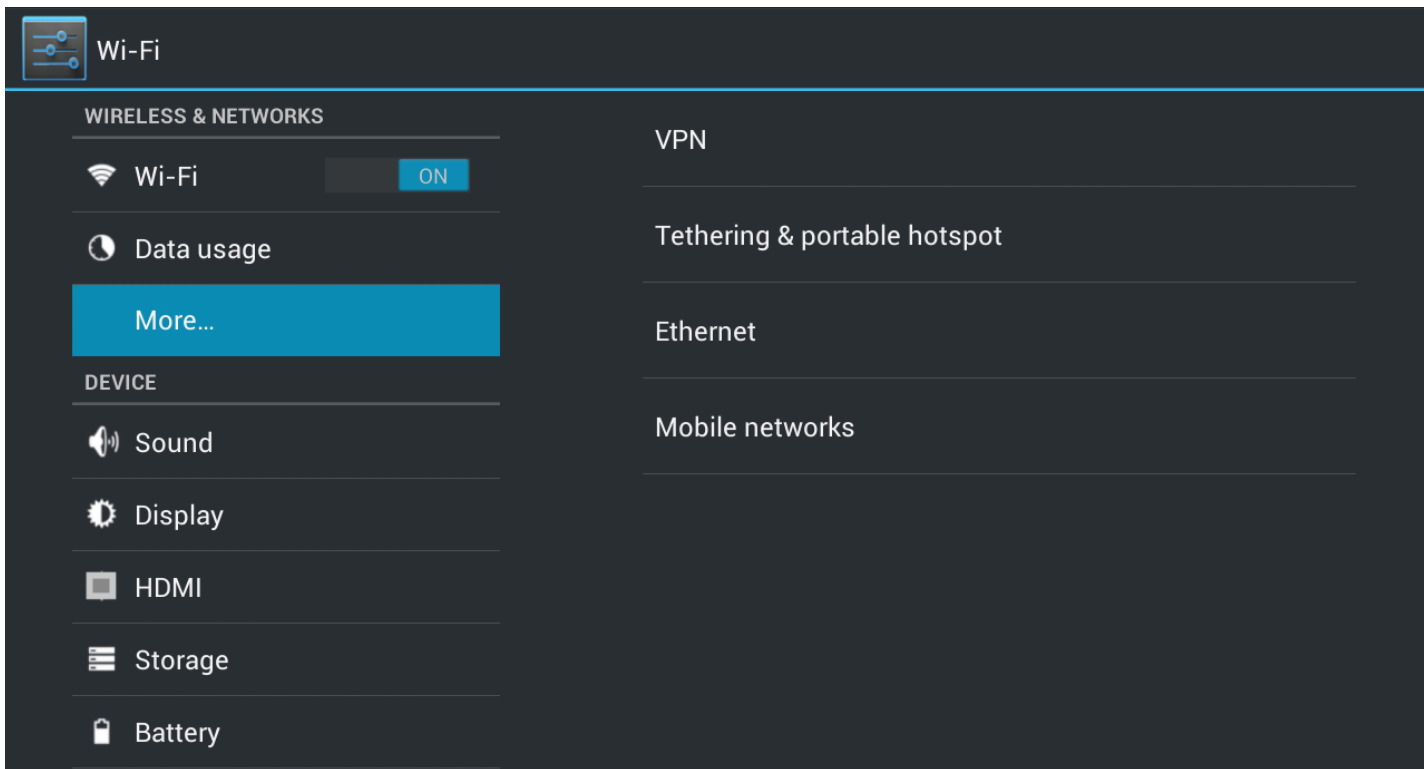
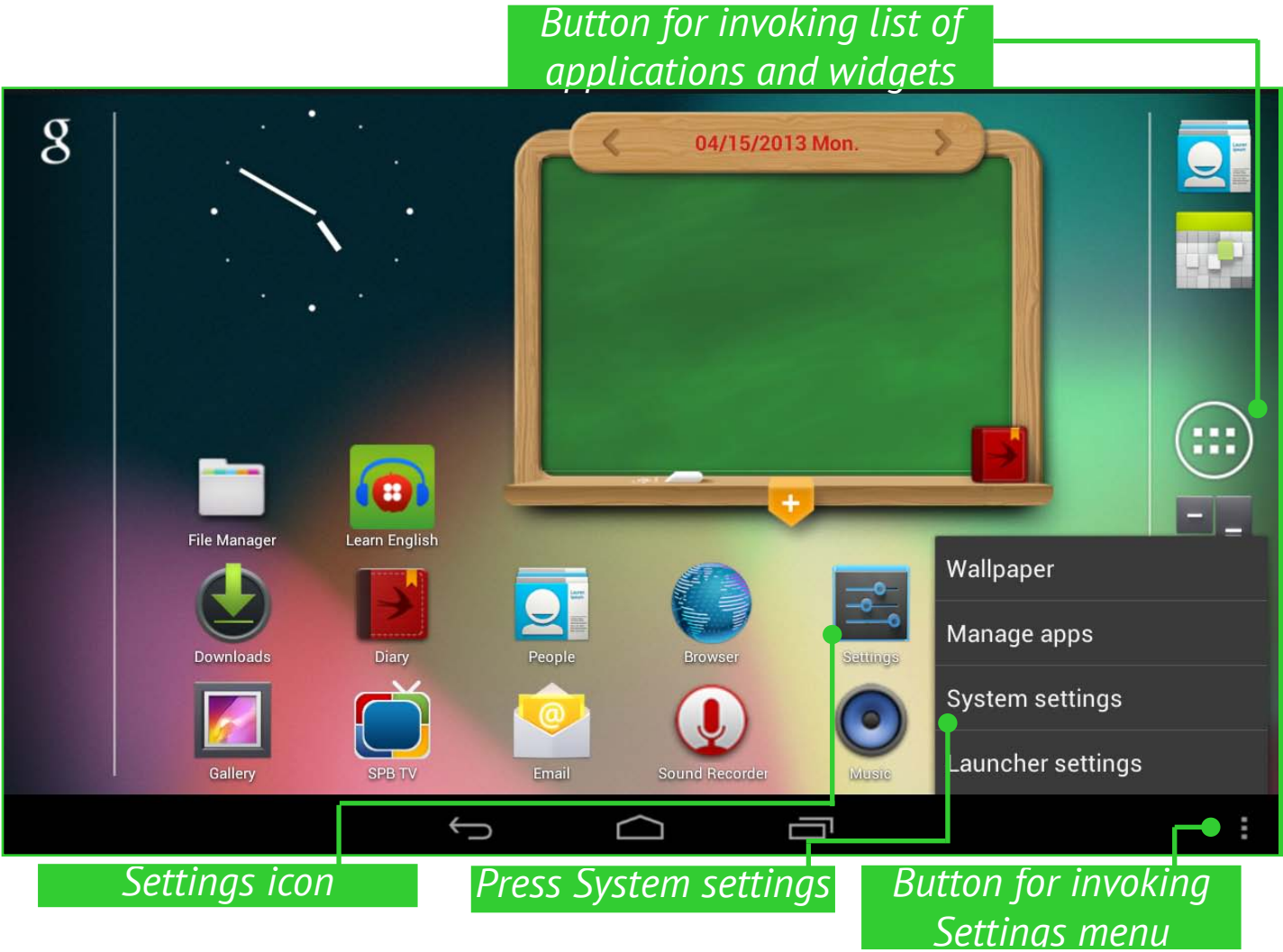
Using context menu, you can do the following with message: *Open, Delete, Forward, Reply, Mark as read*.

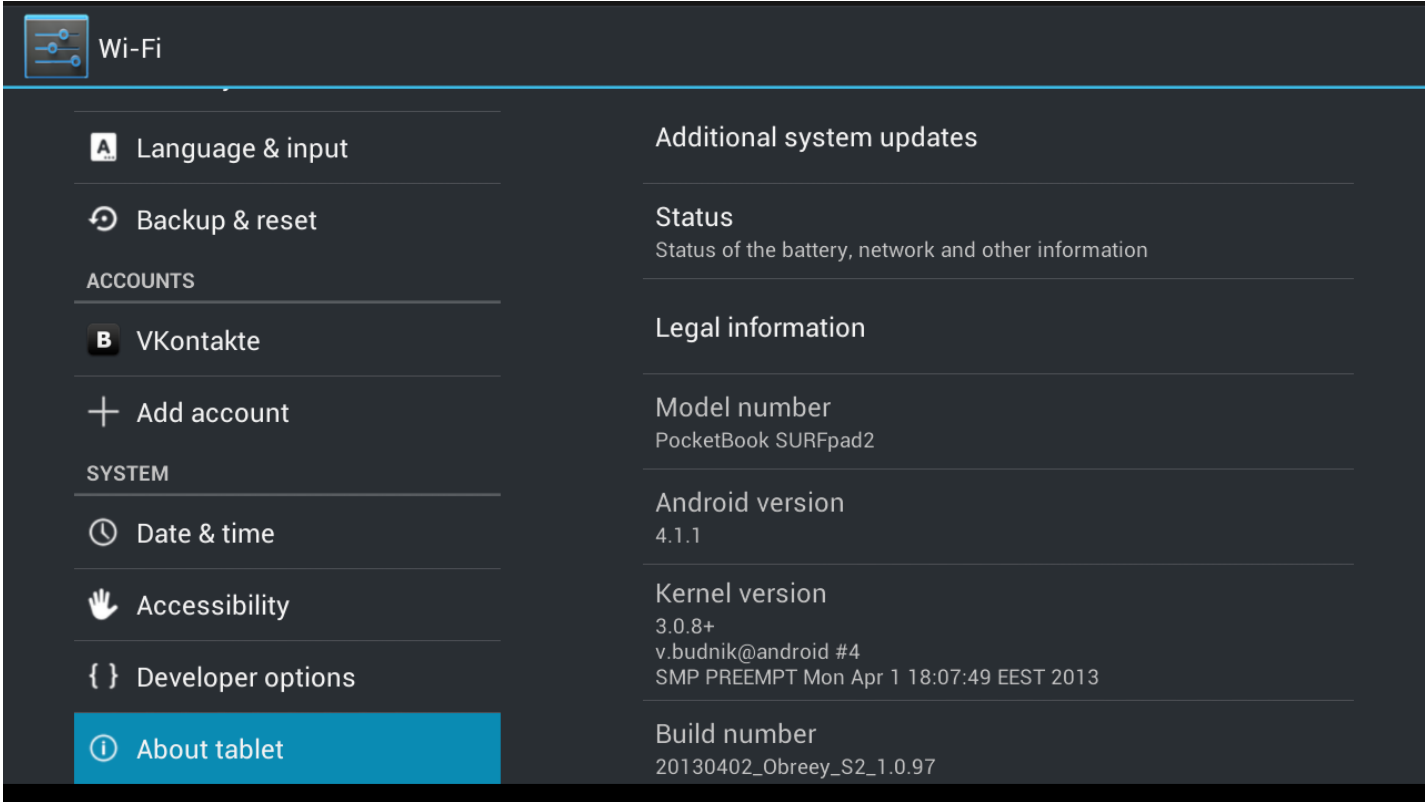
# Settings

In this chapter you will learn how to configure the Device for the most comfortable usage and make it truly yours. You can open settings in several ways:

- press the menu button  in the bottom of the screen;
- open all available applications (button on the application panel) and select the *System settings* icon;
- press the *Settings* icon on the tablet display.

Slide the list of settings upward to view all settings.





LANGUAGE & INPUT

To change interface language, go to *Language and input* > *Language* section and select the one you need.

*Personal dictionary* section stores words, added by user for auto-completion.



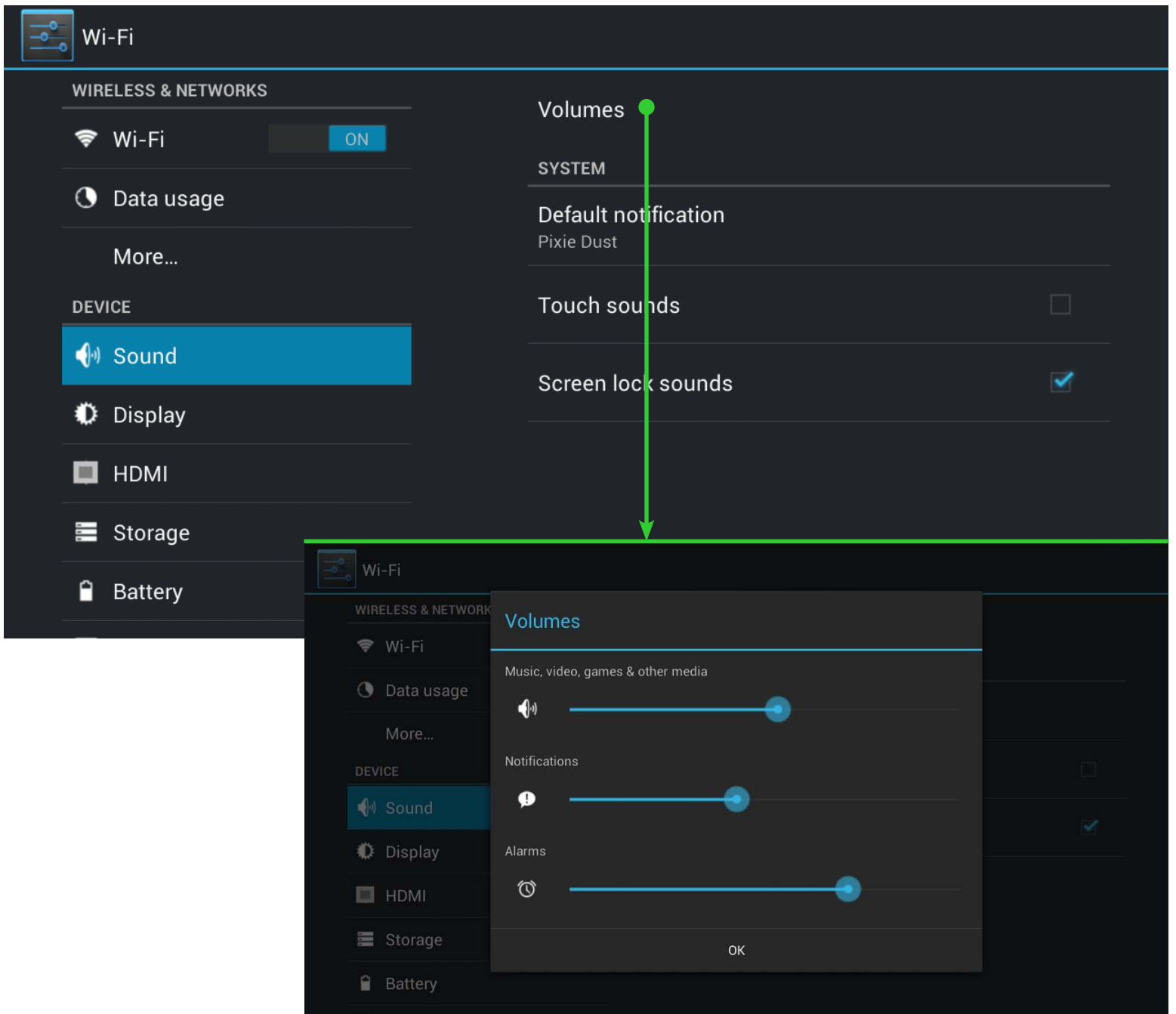
Open submenu

In *Android keyboard* section you can turn on/off the following settings:

- *Auto-capitalization*;
- *Sound on key-press*;
- *Show settings key* – define, whether show settings key on a keyboard or not;
- *Auto-correction* – spacebar and punctuation correct mistyped words automatically;
- *Show correction suggestions*;
- *Advanced settings*.

## SOUND SETTINGS

Multimedia volume is adjusted with volume control buttons.



Under section *Settings* > *Device* > *Sound* you can adjust multimedia and alarm volume separately, and also set keypress, screen touch and screen lock sounds.

## DISPLAY SETTINGS

Under section *Settings > Device > Display* you can set next parameters:

- Brightness;
- Wallpaper;
- Sleep – set the delay before the screen goes down to save battery charge;
- Font size;



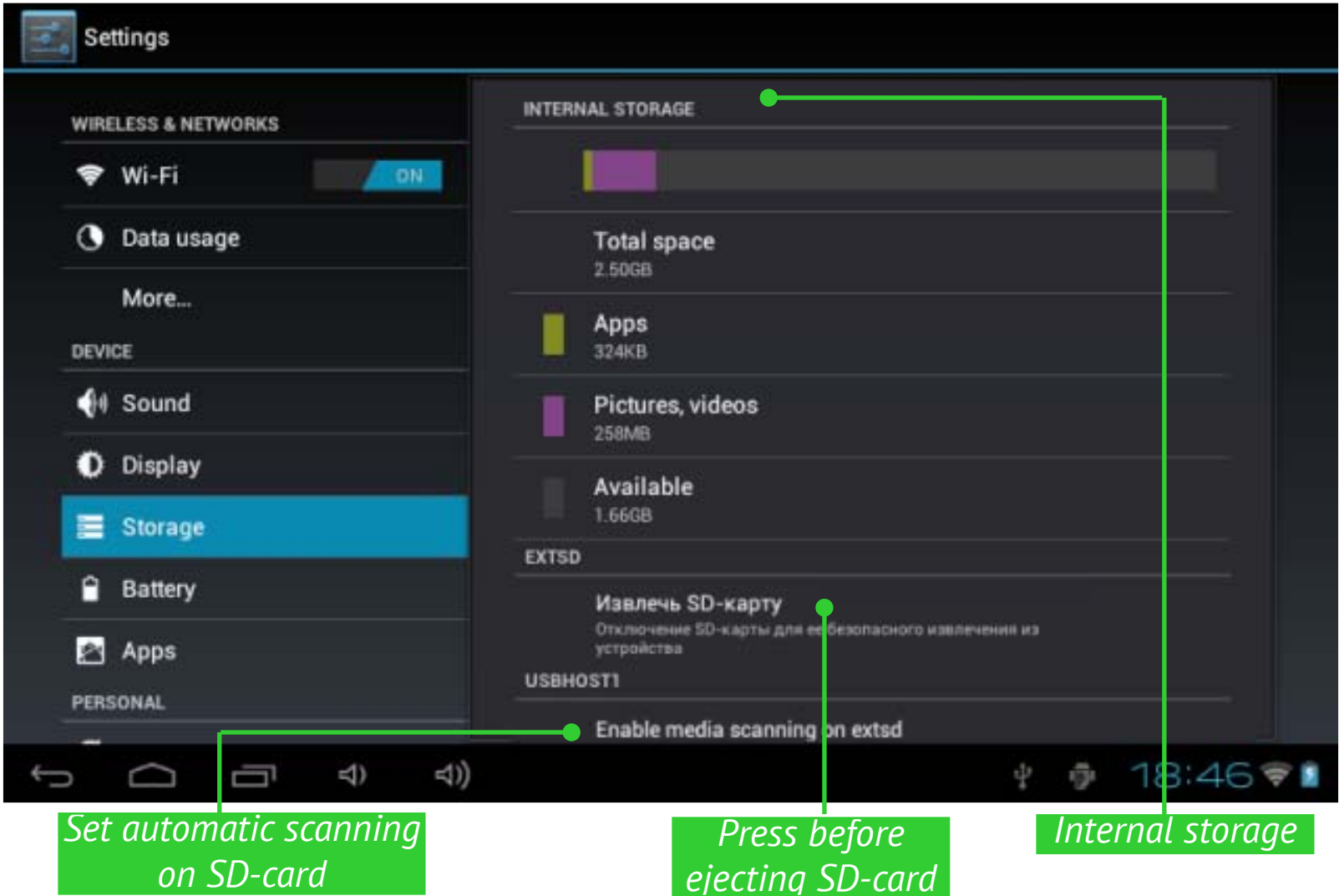
## HDMI Screen Adaptation

Under section *Settings > Device > HDMI* you can configure the interface for transferring uncompressed video data and compressed/uncompressed digital audio data from an HDMI-compliant device:

- support of 720x480p to 1920x1080p resolutions with 50-60Hz frequency synchronization.
- Screen zoom.

## STORAGE

*Storage* section displays information about the Device storage (internal and external SD-card memory): total, occupied, available space. In this section you can also clean internal or external memory.



## CONNECTING DEVICES TO YOUR TABLET

USB devices are supported through the USB port, such as a keyboard, mouse, 3G USB modem, game controller, digital camera, or storage device. If you want external devices to be identified automatically, check *Enable media scanning* on SD in *Settings > Storage* (as it is shown on the picture above).

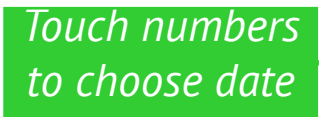
## UNMOUNTING EXTERNAL MEMORY AND DEVICES

Before ejecting External memory or USB host press *Settings > Storage > SD card/USB host > Unmount shared storage*.

- determining your location by network coordinates;
- different ways of screen locking and unlocking;
- owner info;
- encryption;
- administrators and passwords;
- storing accounts data.

## DATE & TIME

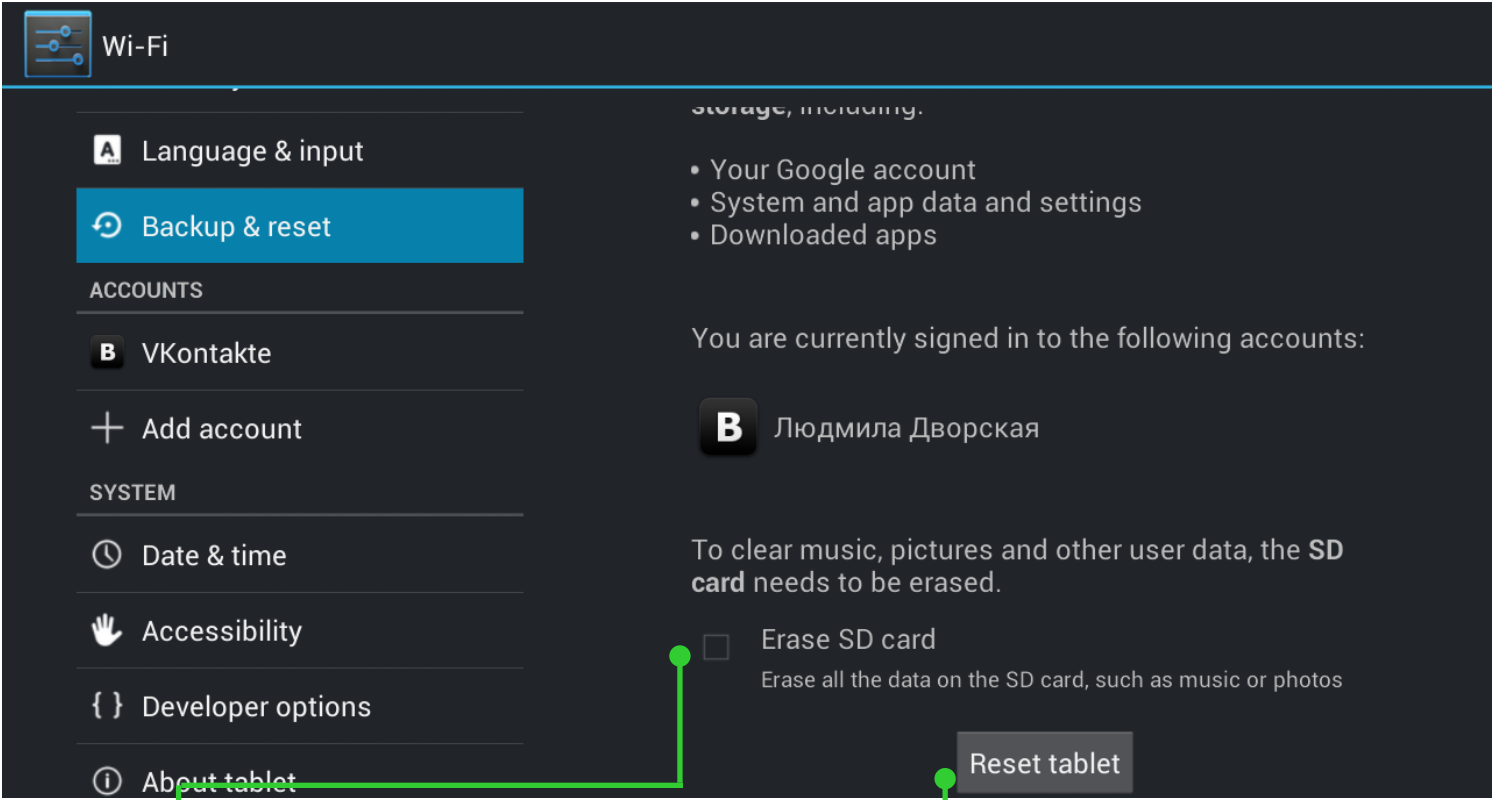
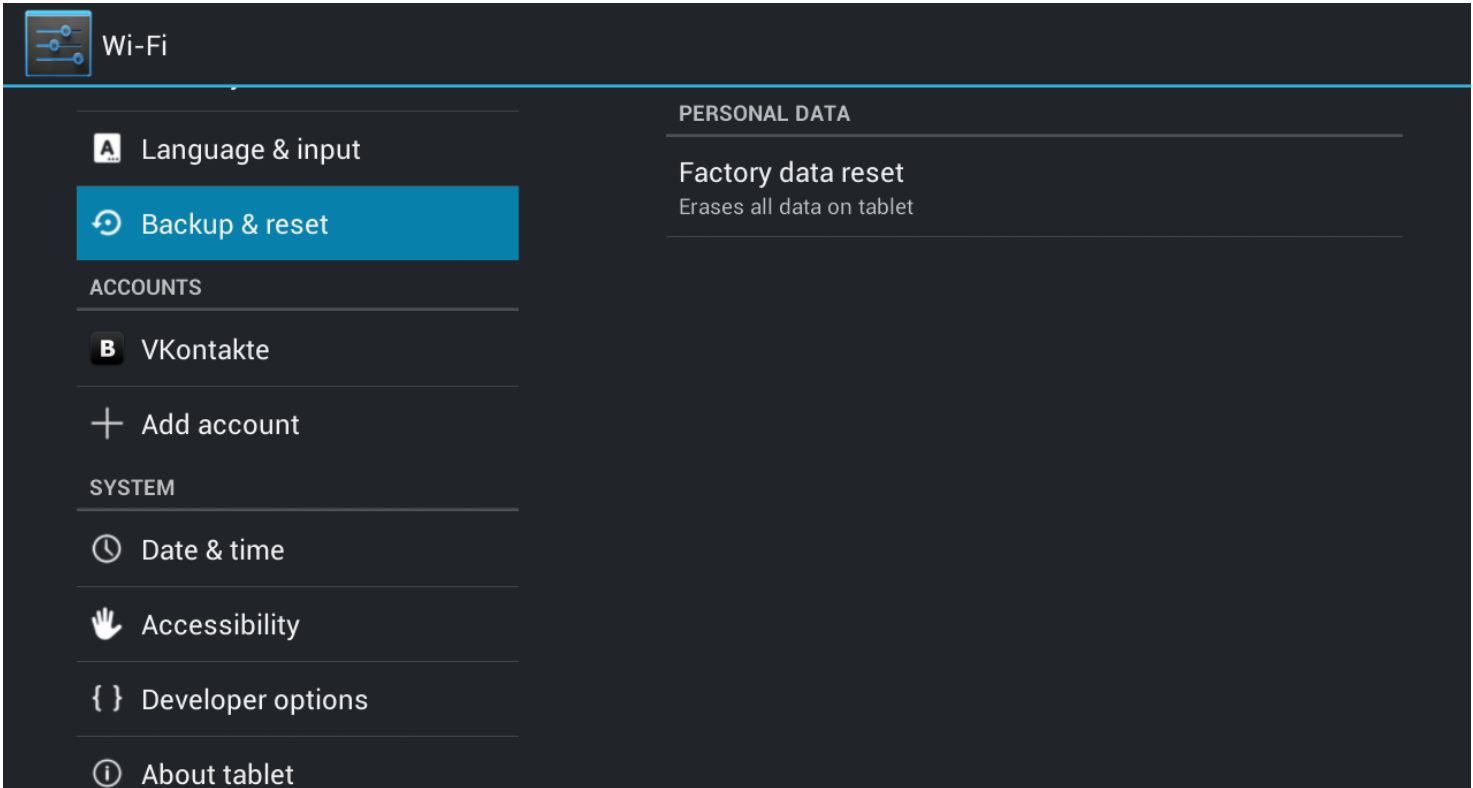
In this chapter you can set date, time, time zone, time and date display format (12 or 24 hour) or check *Automatic* to determine time and date settings using wireless network data.





# RESTORE YOUR TABLET TO FACTORY SETTINGS

Select *Settings > Backup & reset > Factory data reset* menu item, in opened window press *Reset tablet* and *Erase everything*. It will restore your tablet to the factory settings and erase all your personal information: downloaded applications, system settings, google account.

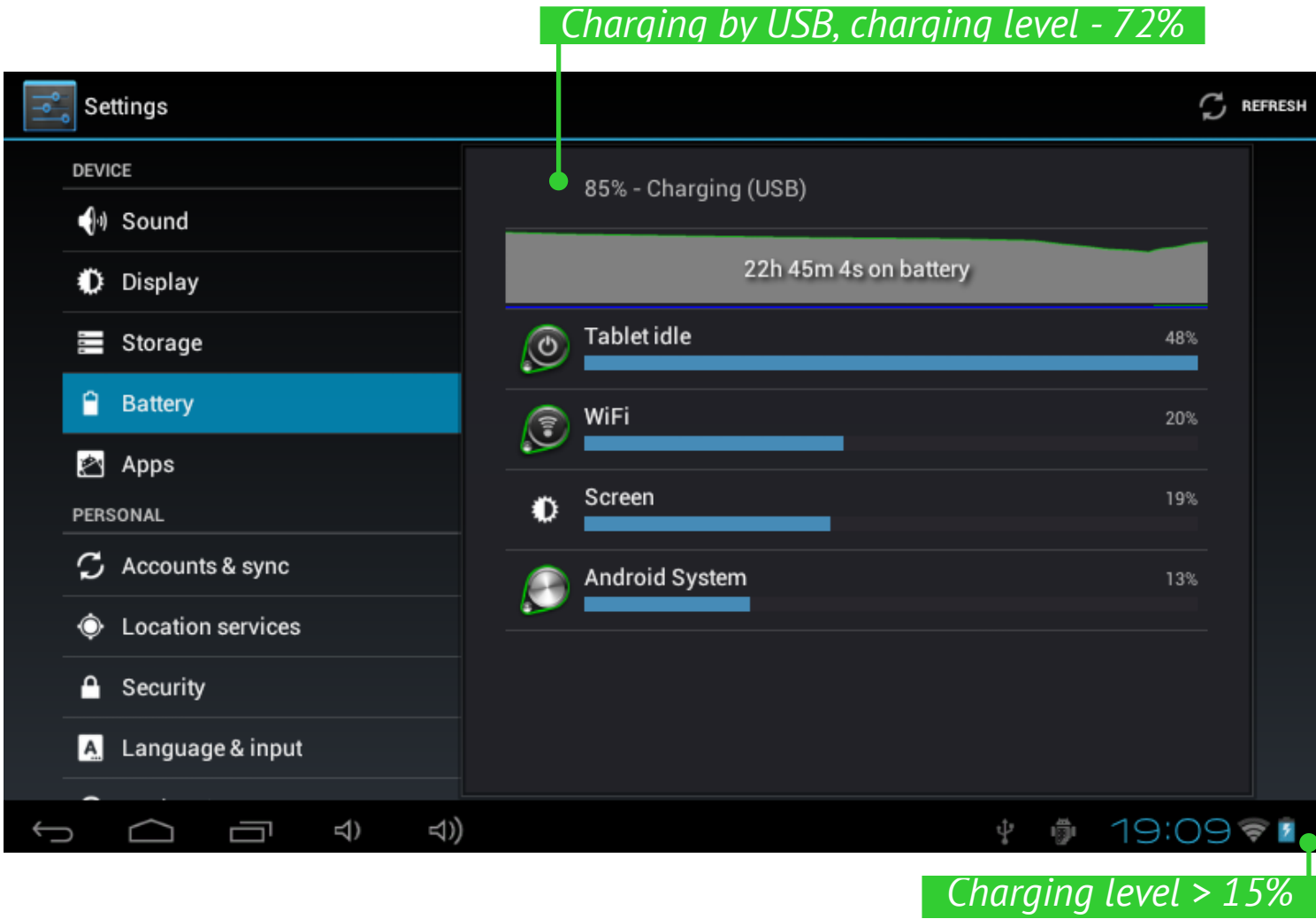


Clean SD card storage

Press to reset tablet

## BATTERY CHARGE STATE

It displays battery charge level (in percents), information whether the Device is charging via network or working from battery. In *Battery* section you can view info about applications, consuming the power.

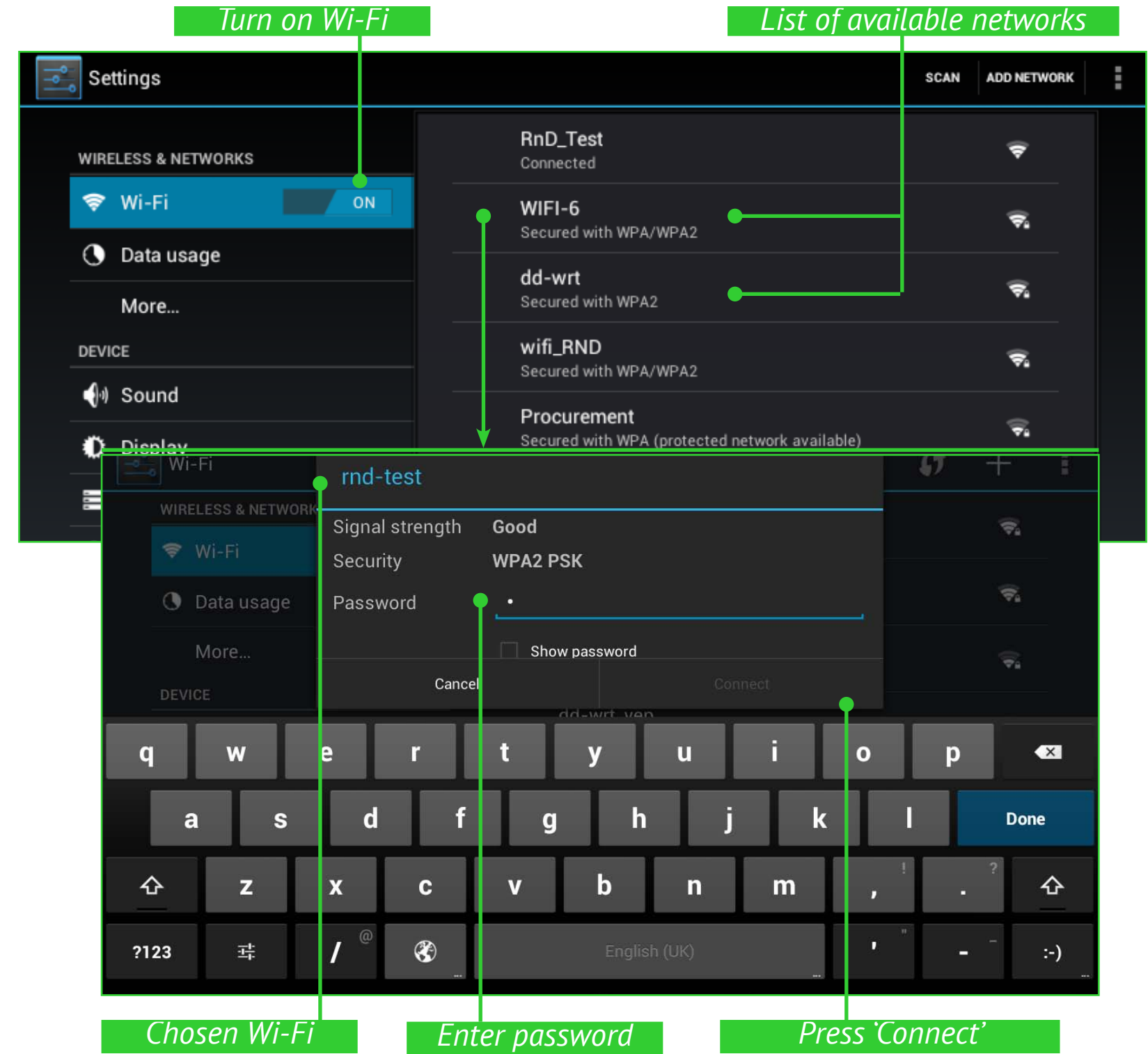


## WI-FI CONNECTION

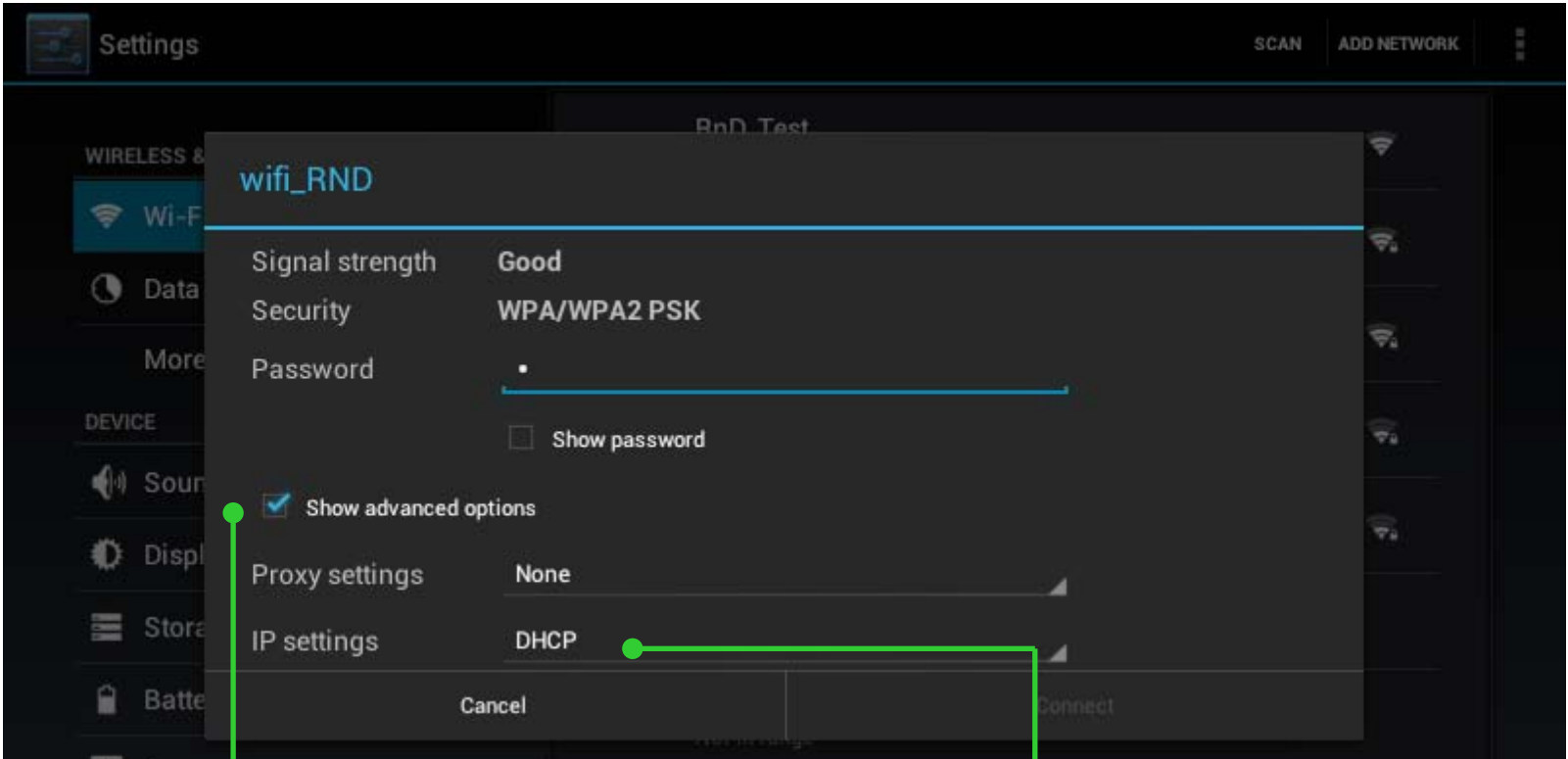
### Connecting to Wi-Fi Network with Automatically Obtained IP-address

- 1.Go to *Settings > Wireless & networks* and slide the *Wi-Fi* switch to the *On* position. The device scans for available Wi-Fi networks and displays the names of those it finds.
- 2.Touch a network name to connect to it and type a password if necessary. Press *Connect*.

At this network tapping IP-address will be obtained automatically. You can view advanced network options, ticking *Show advanced options*.



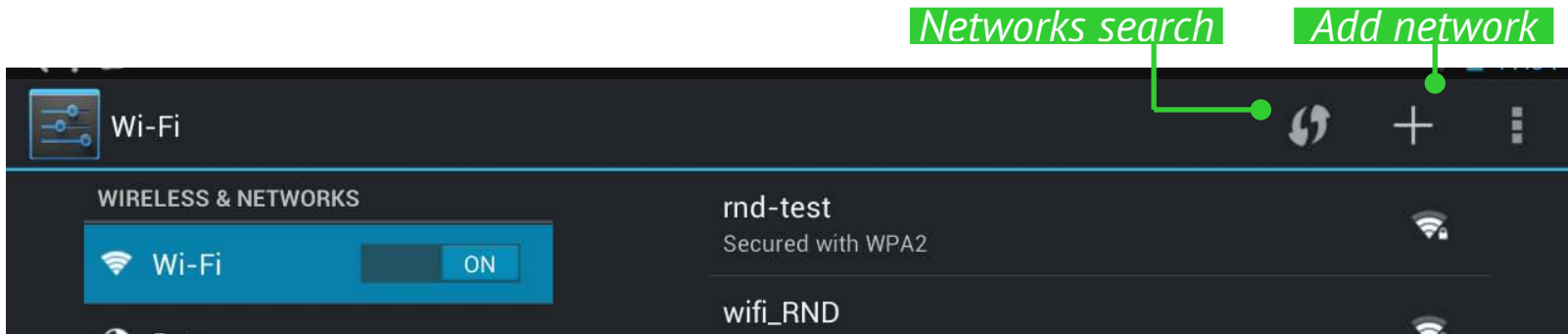
## Connection to Wi-Fi Network with Manual Configuring Network Settings



*Tick it to view advanced options*

*Settings by default*

1.To set parameters for Wi-Fi network access manually, press *Add network* in *Settings*, specify a network name, security protocol, password in the opened window and press *Save*.



2.Touch & hold a network in the list of Wi-Fi networks you've added. Touch *Modify network* in the dialogue, which appears. Select *Show advanced options*.

3.If the network has no proxy settings, touch *None* under *Proxy settings*, else touch *Manual* in the menu that opens.

4.Enter the proxy settings supplied by your network administrator.

5.Touch *Save*.

6.touch *Static* under *IP settings* and enter IP address, gateway, DNS.

7.Touch *Save*.

## ADVANCED OPTIONS

Advanced options allow turning on/off notifications when an open network is available. To invoke them, open *Settings > Wi-Fi* and press the application menu button on the right top corner of the screen and touch *Advanced*.

Button for evoking advanced options



## TURN OFF WI-FI

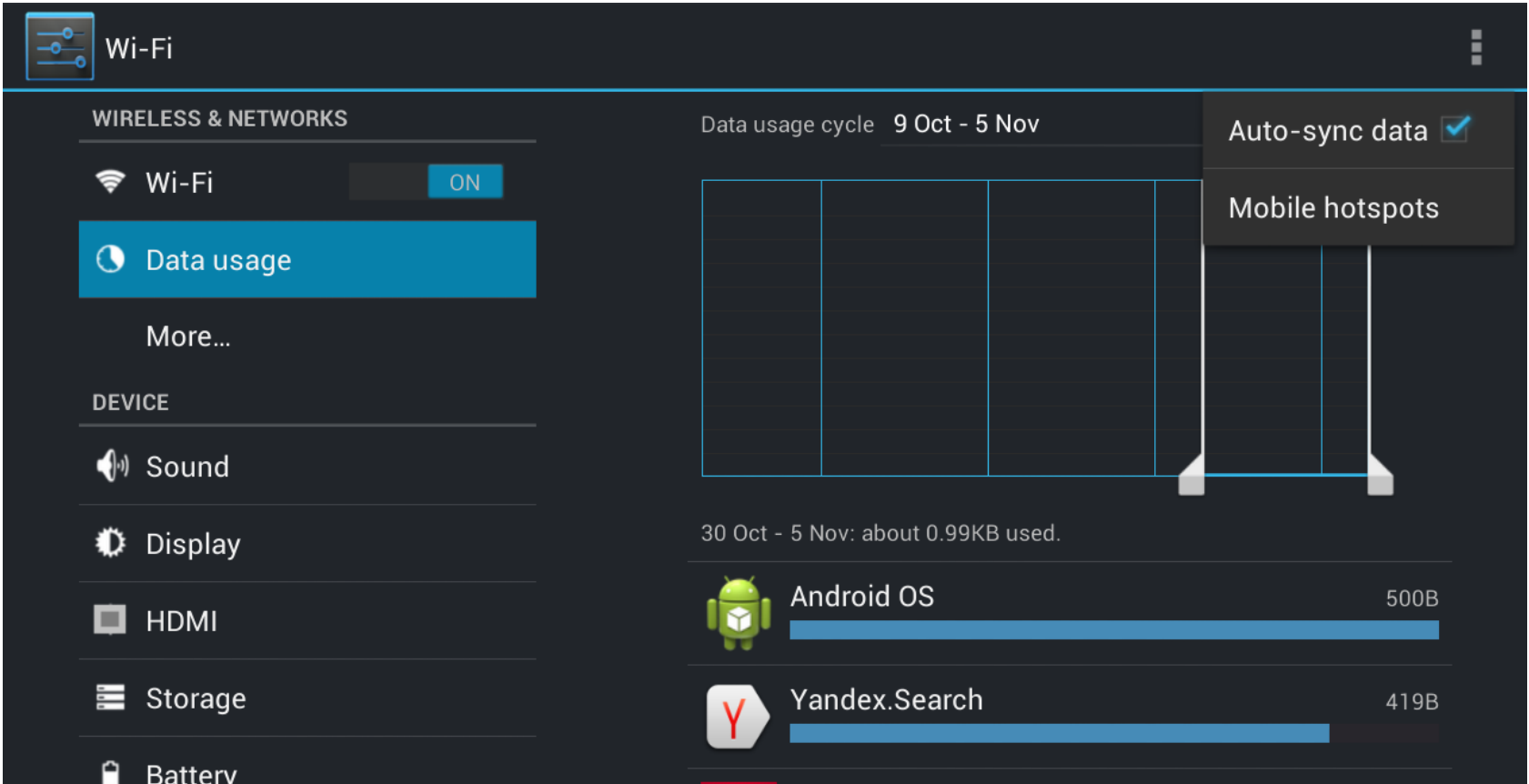
To turn off Wi-Fi module slide the *Wi-Fi* switch to the *Off* position in the *Settings > Wireless & networks* section.

## TRANSFERRING DATA

To transfer data between PC and the Device, connect micro-USB cable.

After you connect the cable, a notification window suggesting to turn on USB storage will popup. Press *Turn on USB storage* and the Device memory and microSD card (if present) will be displayed as USB storages in your PC Explorer or other file manager.


Now you can copy data to the Device’s internal memory or microSD card. After transferring data, expand notification panel, press *Turn off USB Storage* message and press corresponding button. Now you can unplug micro-USB cable.



You can set additional parameters of transferring data in *Settings > Wireless & networks > Data Usage* section.

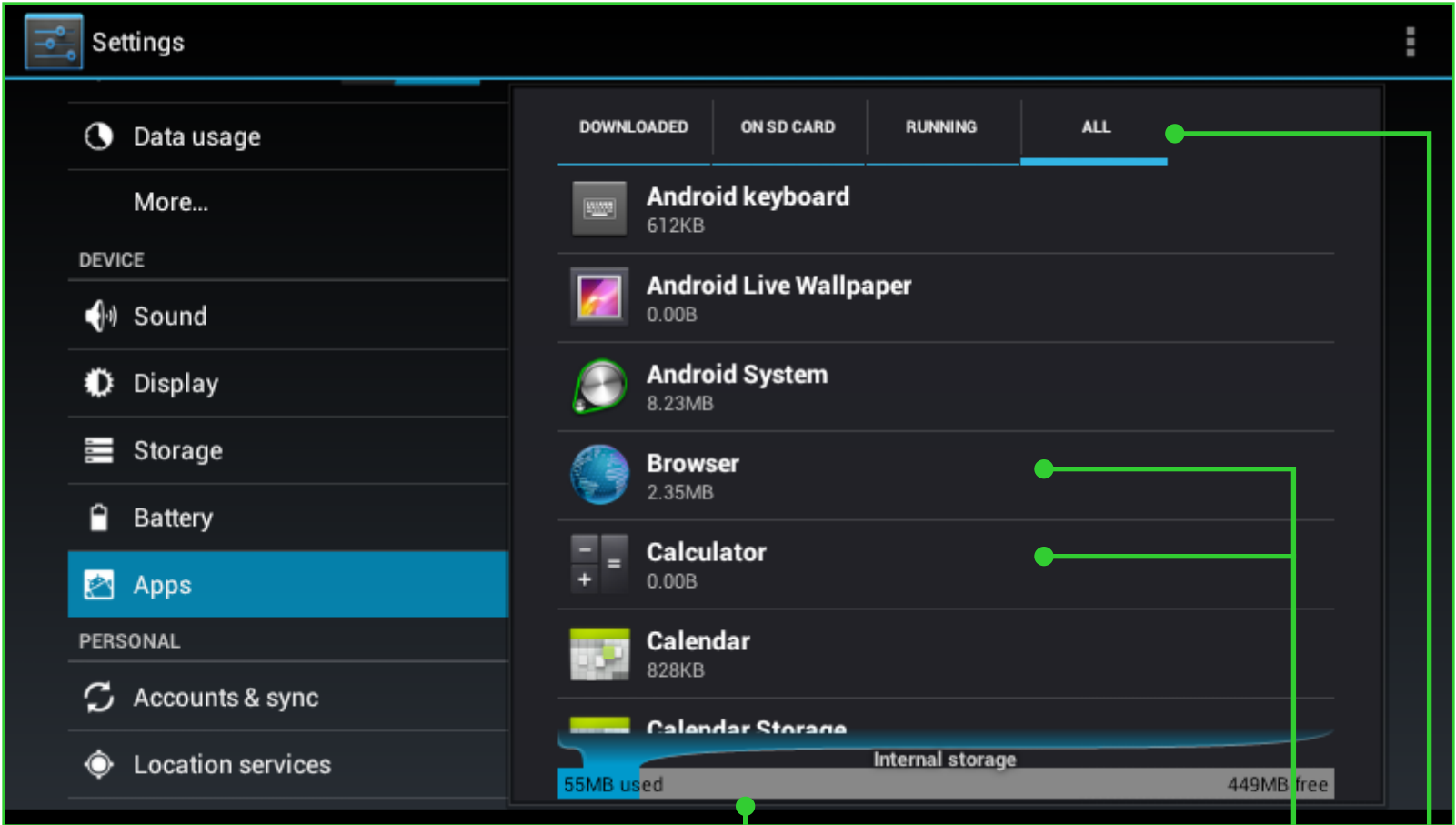
## INFORMATION ABOUT APPS

To view information about installed applications you should open the applications list:

- Press the menu button  at the bottom of the screen and choose *Manage apps*;
- Go to *Settings > Device > Apps*.

# SETTINGS

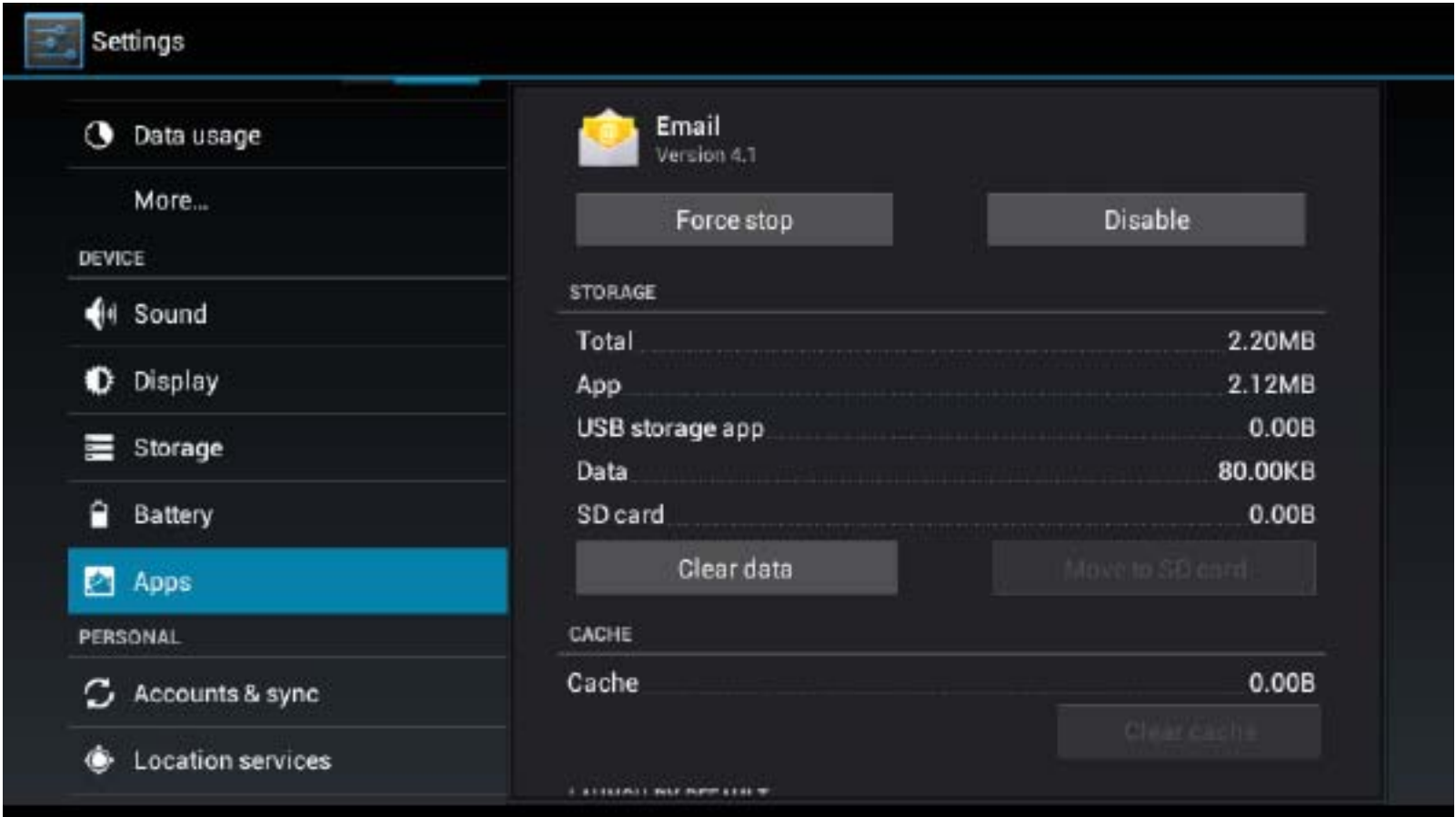
After pressing the application's title, you'll be able to view its detailed information, stop it if it's running and erase application data.



Memory, occupied by applications

Installed applications

Choose the applications list





# Firmware Update

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Official firmware updates for the Device are published on the official PocketBook website ([www.pocketbook-int.com/us](http://www.pocketbook-int.com/us)). Installation of official firmware updates is recommended, as they contain fixes and additions improving the efficiency of the Device.

Official firmware updates do not influence the warranty conditions.

The warranty does not cover software installed from sources other than the official PocketBook website.

You can update firmware in several ways.

**ATTENTION!** Please, make sure the Device is fully charged before updating the firmware to avoid discharge during update process! This may cause severe damage of the Device's software.

## AUTOMATIC UPDATE

Your Device should be connected to the Internet for this update variant.

1. Enter *Settings > System > About tablet > System updates* section.
2. If you'd like the Device to check for updates automatically, check *Enable or disable autoupdate* checkbox
3. To check for updates immediately, press *Check for the new firmware now*.

If firmware updates are available, the Device will automatically download and install them.

## MANUAL UPDATE

### Variant 1

1. Download to your PC firmware version you'd like to install ([www.pocketbook-int.com/us/support/pocketbook-surfpad](http://www.pocketbook-int.com/us/support/pocketbook-surfpad))
2. Connect your Device to PC and copy firmware file (.upkg extension) to the internal storage or external microSD-card
3. Go to *Settings > About device > System updates* section



4. Select *SD card*. In the list appeared select the firmware version to install and press **OK**.

## Variant 2

1. Download to your PC firmware version you'd like to install  
 2. Connect your Device to PC and copy firmware file (.upkg extension) to an **external microSD-card**

**ATTENTION!** In this variant you can install firmware from external card **only!**

3. If the Device is on, turn it off by continuous power button press and selecting the corresponding choice in switch off menu

4. Press and hold **Volume +** button and switch the Device on by pressing power button

5. *Android system recovery* menu will appear (Android logo). Now you can release **Volume +** button

6. Select *apply update from sdcard* using **Volume +/-** hardware keys and press **On/Off** key to confirm choice

7. Select the firmware file by **Volume +/-** buttons and press **On/Off** button to confirm.

8. The Device will perform all the necessary update action and will reboot.

**NOTE** To exit *Android system recovery*, select *reboot system now*.

## Variant 3

1. Download to your PC firmware version you'd like to install  
 2. Connect your Device to PC and copy firmware file (.upkg extension) to an **external microSD-card**

**ATTENTION!** In this variant you can install firmware from external card **only!**

3. Go to *Settings > Backup & reset > Recovery Mode* section.

4. The Device will reboot and Firmware update will continue according to the **Variant 2** scenario, starting from **5th item**.

TROUBLESHOOTING

Issue	Solution
The Device doesn't respond on screen touches or keys pressing	Restart the Device: press and hold power button for 10 seconds until the Device goes off. If you will continue holding power button for 5 more seconds, the Device's power management system will completely reboot. To switch the Device on, press again the power button as usual.
After turning on the Device only splash screen is displayed (the lock screen isn't loaded)	<ul style="list-style-type: none"><li>• Turn the Device off by continuous power button press</li><li>• Press and hold <b>Volume +</b> button and switch the Device on by pressing power button</li><li>• <i>Android system recovery</i> menu will appear (Android logo with exclamation mark). Now you can release <b>Volume +</b> button</li><li>• Select <i>wipe data/factory reset</i> using <b>Volume +/-</b> hardware keys and press <b>On/Off</b> key to confirm choice.</li><li>• Select yes – delete all user data and press Menu</li><li>• Under service menu select reboot system now and press Menu</li></ul>

# Compliance with International Standards

The EUT should be supplied by USB port from complied Limited Power Source of personal computer or notebook.

The EUT should be supplied by Adapter from complied Limited Power Source.

## **AC Power:**

Manufacturer: PENGSHENGYE ELECTRONIC

Model: SAPA05010EU U

Rated output voltage: DC 5.0V 2.0A

**IMPORTANT:** Changes or modifications to this product not authorized could void the EMC and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

C€0678ⓘ

## **European Community Compliance Statement**

**This equipment is marked with the 0678 symbol and can be used throughout the European community.**

This indicates compliance with the R&TTE Directive 1999/5/EC and meets the relevant parts of following technical specifications:

**EN 300 328** – Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission Systems; Data transport equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**EN 301 489-1** – Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

**ETSI EN 301 489-7** – Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)

**EN 301 489-17** – Electromagnetic compatibility and Radio spectrum Matters (ERM); EMC standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

**ETSI EN 301 489-24** – Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment

**ETSI EN 301 511** – Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1 800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)

**ETSI EN 301 908-1** – Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive

**EN 60950-1** – Information technology equipment - Safety - Part 1: General requirements

**EN 62311: 2008** – Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)

**Marking by the symbol indicates that usage restrictions apply.**

France - 2.4GHz for Metropolitan France:

In all Metropolitan departments, wireless LAN frequencies can be used under the following conditions, either for public or private use:

- Indoor use: maximum power (EIRP\*) of 100 mW for the entire 2400-2483.5 MHz frequency band
- Outdoor use: maximum power (EIRP\*) of 100 mW for the 2400-2454 MHz band and with maximum power (EIRP\*) of 10 mW for the 2454-2483 MHz band

**Certification information (SAR) The device meets guidelines for exposure to radio waves**

Your device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

This equipment complies with the European Council Recommendation of 12 July 1999 on the Limitation of Exposure of the General Public to Electromagnetic Fields [1999/519/EC].