DT4000

Xplore

User Guide

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Contents

Copyright 3

Disclaimer 3

Regulatory Information 4

Safety Information 5

Getting Started 6

- Device Overview 6
- Installing and Removing the Battery 7
- Battery Charging 8
- LED Status Description 9
- Powering the Device On and Off 10
- Suspending the Device 10

Using the Device 11

- Status Bar Icons 11
- Viewing System Information 12
- Using Wi-Fi 12
- Using Bluetooth 14
- Using NFC 16
- Adjusting Volume 17
- Adjusting Brightness 18
- Enabling Auto-rotate screen 19
- Adjusting Screen timeout & Screen dim timeout 19
- Defining Keys 21
- Changing Language 21
- Adjusting Date & Time 22
- Performing System Backup 23
- Performing System Restore 24

Copyright

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Disclaimer

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Regulatory Information

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This device should be installed and operated with a minimum separation distance of 5mm between the radiator and all persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

CE Statement

This device has been tested and found to comply with the following EU Directives:

- R&TTE Directive (1999/5/EC)
- EMC Directive (2004/108/EC)
- Low Voltage Directive (2006/95/EC)

The assessment of compliance of the device was performed according to the following European standards:

- EMC: EN 301 489-1/-17
- Health: EN 50371
- Safety: EN60950-1
- Radio: EN 300 328

CE 0700

Radiation Exposure Statement

This devise is designed, tested, and manufactured to comply with the limits for exposure to RF energy set by international regulatory agencies. “Specific Absorption Rate,” or SAR, refers to the rate at which the body absorbs RF energy. The SAR limits for Wi-Fi and Bluetooth are 1.6 watts per kilogram (W/kg) for the FCC, and 2.0 W/kg for the Council of the European Union. This device has been tested, and meets the FCC and European Union RF exposure guidelines for WiFi and Bluetooth operation.

Safety Information

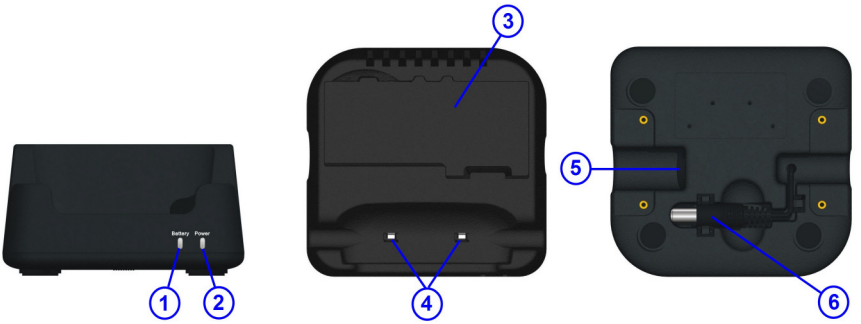
Please read the following information carefully before using the device for the first time, and keep this Quick Start Guide in a safe place for future reference.

- Always treat the device with care and keep it in a clean and dust-free environment.
- Do not expose the device to extremely hot, cold or humid environment. The operation temperature is from –10˚C to 50˚C.
- Do not use the device in wet or rainy conditions.
- Do not charge the device in extremely hot (over 40˚C) or cold conditions (below 0˚C).
- Do not attempt to disassemble or modify the device including the charger.
- Do not operate the device when your hands are wet.
- Do not insert foreign objects into the openings of the device.
- Use only the charger and battery approved for the device.
- Install the cradle on a flat and stable surface.
- Do not cascade over 3 cradles in series.
- Do not use the charger if the power cord or plug is damaged.
- Do not disassemble, crush or puncture the battery.
- Do not expose the battery to high temperatures.
- Do not let battery terminals touch other metal objects that could lead to short-circuit of the battery.
- Do not dispose of the battery in fire or water.
- Dispose of used battery properly according to local laws and regulations.

Getting Started

Device Overview

No.	Item	Description
1	MicroSD card cover	Open the cover to access the MicroSD card slot
2	Left side key	Configurable shortcut key. Default as Menu key
3	Power key	Press and hold to turn the device on or off. If the device is on, press to suspend.
4 /12	Strap eyelet	Attach to anti-drop string
5	Configurable LED	Software configurable LED
6	Device LED	Power and WiFi connection status indicator
7	Ambient light sensor	Auto screen brightness control
8	Touch screen	LCD with capacitive touch screen
9	NFC reader	Scanning area for NFC tag
10	USB cover	Open the cover to access the USB connector
11	Right side key	Configurable shortcut key. Default as Back key
13	Expansion slot cover	Remove cover for Add-on module connection
14	Speaker	Mono speaker
15	Battery cover	Remove the battery cover to access the battery
16	Battery cover lock	Slide down to release the battery cover
17	Charging plates	Contact plates for charging in the cradle



No.	Item	Description
1	Spare battery LED	Spare battery charging status indicator
2	Power LED	Cradle power connection indicator
3	Battery slot	To charge spare battery
4	Charging contact plates	To charge the PDA
5	DC jack	Connect AC/DC Adaptor or DC power cable
6	DC power cable	Extension power cable for cascading cradles

Installing and Removing the Battery

Installing the Battery

1. Align the battery metal contacts with the contact pins inside the battery compartment.
2. Press the battery down until the battery lock clicks into place.
3. Align the battery cover with the battery compartment; and push the battery cover down until it is locked.

Removing the Battery

Note: Always power off the device before removing the battery.

1. Slide the battery cover lock down until the battery cover ejects slightly.

2. Remove the battery cover.
3. Slide the battery lock to the right and hold it at the unlocked position.
4. Lift the the battery from the battery compartment.

Battery Charging

Charging the Device

1. Connect the AC/DC adaptor to the DC jack of the cradle.
2. Plug the AC/DC adaptor into a suitable power socket. The cradle power LED will turn green when power is supplied to the cradle.
3. Insert the device to the cradle slot. The device LED will flash amber while charging, then it will turn green when fully charged.

Charging the Spare Battery

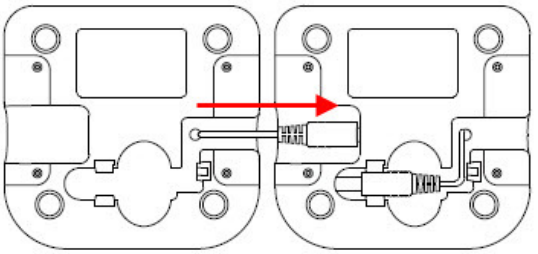
1. Align the battery metal contacts with the contact plates of the battery slot.
2. Slide the battery to the battery slot. The cradle battery LED will turn red while charging, then it will turn green when fully charged.

Cascading the DT4000 Cradles

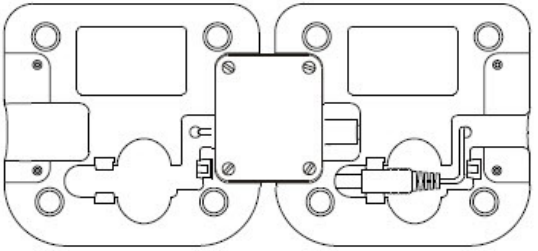
DT4000 cradles can be cascaded in series to charge the DT4000 devices and batteries simultaneously with one AC/DC adaptor. Each adaptor supports maximum 3 cascaded cradles.

Important: Do not cascade over 3 cradles in series.

1. Disconnect AC/DC adaptor, and turn over 2 cradles.
2. Connect the DC power cable of one cradle to the DC power connector of the other cradle.



3. Apply the metal plate accessory to the recess area between the cradles, and fasten the metal plate screws with a coin or screwdriver.



4. Re-connect the AC/DC adaptor to the cradle.

LED Status Description

Device LED

LED colour	**Description**
Red	Battery low
Flashing Amber	Charging
Green	Fully Charged
Flashing Blue Quickly	Wi-Fi Searching
Fashing Blue Slowly	Wi-Fi Connected
Off	Wi-Fi Disconnected
Aqua Blue	Powering On
Flashing Green	Battery door is open

Cradle Power LED

LED colour	Description
Green	Cradle is powered on
Off	Cradle is powered off

Cradle Battery LED

LED colour	Description
Red	Spare battery is charging
Green	Spare battery is fully charged
Off	Battery slot is empty

Powering the Device On and Off

Powering on the Device

Press and hold the Power key for at least 2 seconds until the device LED turns aqua blue.

Note: The device can only power on when the battery cover is closed.

Powering off the Device

Press and hold the Power key for at least 2 seconds, and follow the screen instructions to power off the device.

Suspending the Device

If the device is on, press the Power key once or close the flip cover to suspend the device (i.e. entering sleep mode), saving battery power.

To resume operation from sleep mode, press the Power key once or open the flip cover.

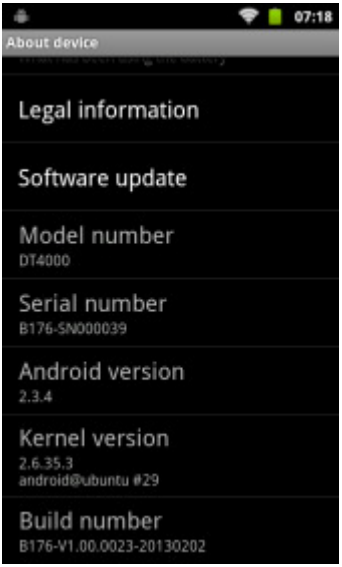
Using the Device

Status Bar Icons

Icon	Description	Icon	Description
	Battery is full.		Uploading data.
	Battery is partially drained.		Downloading data.
	Battery is low.		Warning notification.
	Battery is very low.		Preparing MicroSD card.
	Battery is charging.		MicroSD card or internal memory is full.
	WLAN feature is on, but not connected to a network.		Vibrate mode is on.
	Connected to a WLAN.		Silent mode is on.
	Bluetooth is on.		Alarm is set.
	Connected to a Bluetooth device.		Connected to the add-on Barcode scanner module.
	USB connected.		Connected to the add-on MSR module.
	USB debugging connected.		Ethernet over USB.

Viewing System Information

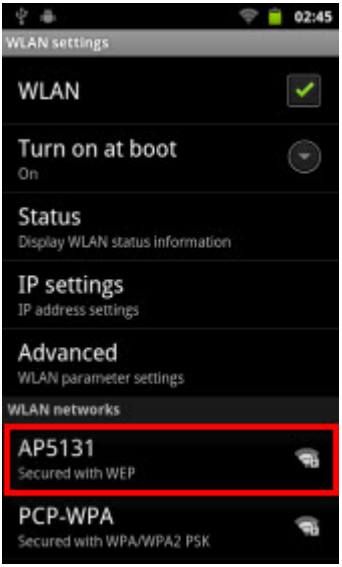
1. Select **Application drawer** **> Settings > About device**
2. Scroll to view model number, serial number, software version etc.

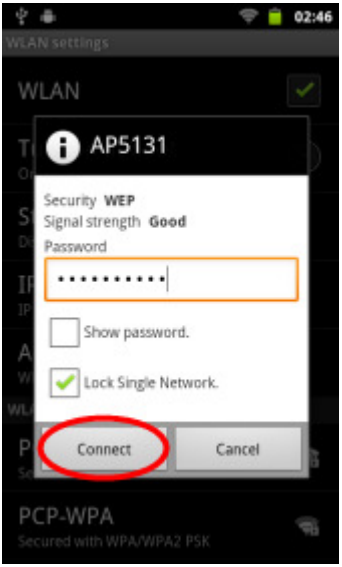


Using Wi-Fi

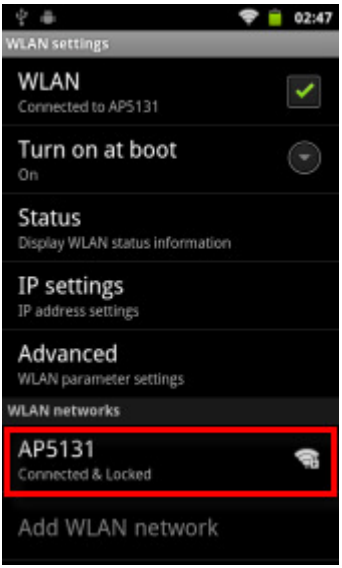
Connecting to WLAN

1. Select **Application drawer > Settings > WLAN**
2. Select the required AP under **WLAN networks**.
3. Input the network key when prompted. Select **Lock Single Network** checkbox, and select **Connect.**





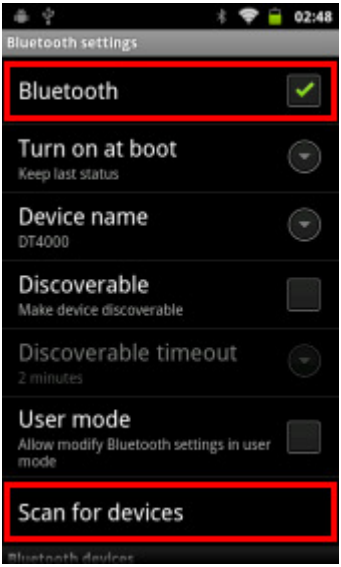
4. Once connected, the AP will indicate **Connected & Locked**, and the device LED will be blinking blue slowly.
5. Select **Advanced** to perform advanced settings if required.



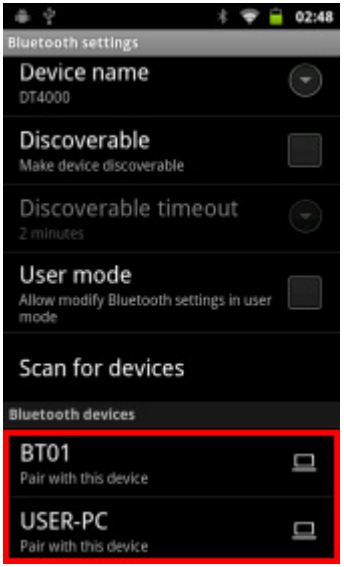
Using Bluetooth

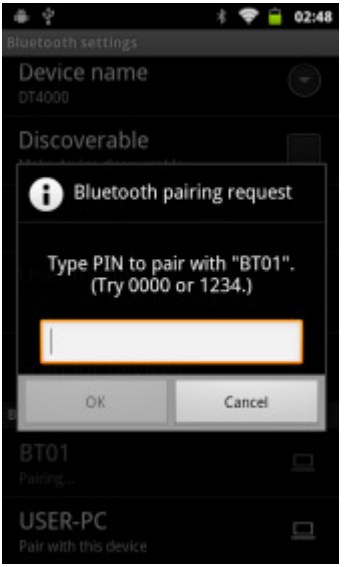
Connecting to a Bluetooth Device

1. Select **Application drawer > Settings > Bluetooth**.
2. Select **Bluetooth** checkbox to turn on Bluetooth.
3. Select **Scan for devices**.



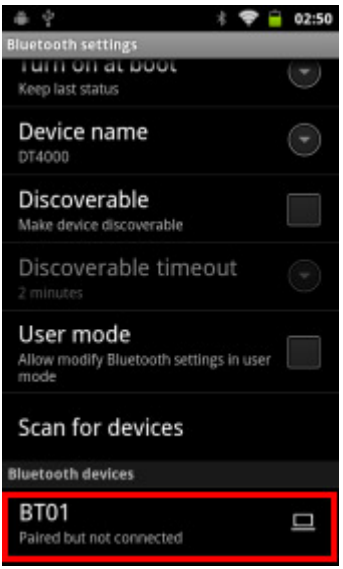
4. Select the required device under **Bluetooth devices**.
5. Input PIN when prompted to pair.

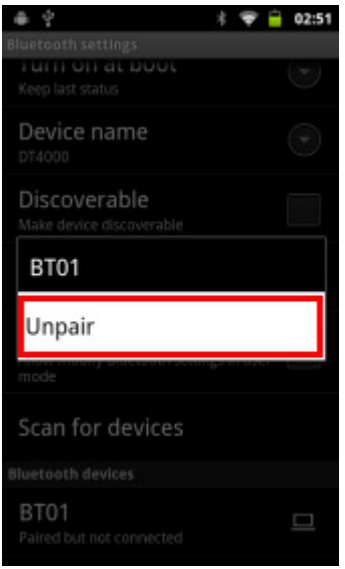




Unpairing a Bluetooth Device

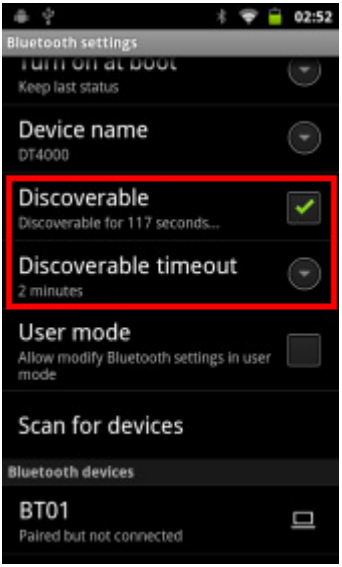
1. In the **Bluetooth devices** list, touch and hold on a paired bluetooth device until a pop up dialog box appears.
2. Select **Unpair**.

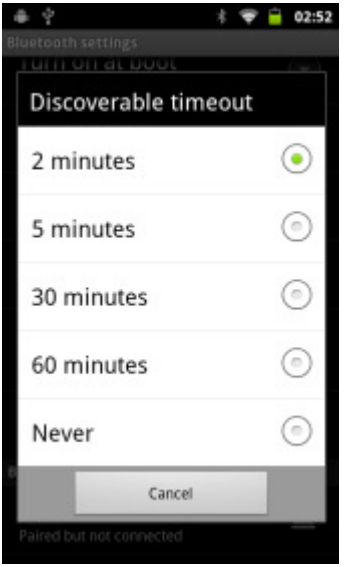




Making the Device Discoverable

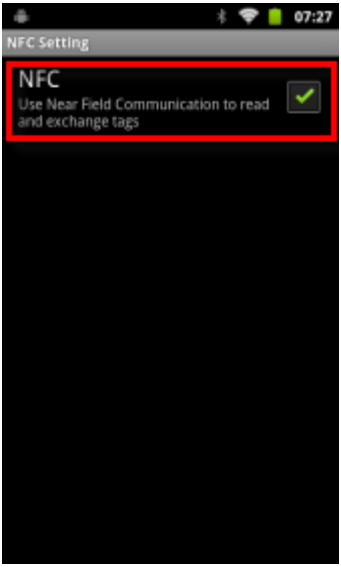
1. Select **Discoverable**.
2. Select **Discoverable timeout** to adjust the timeout period if needed.





Using NFC

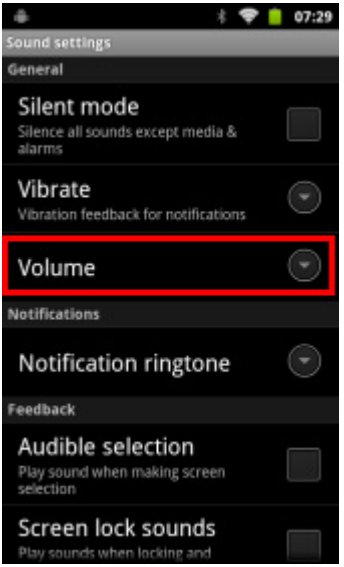
1. Select **Application drawer > Settings > NFC**
2. Select NFC checkbox to turn on NFC.

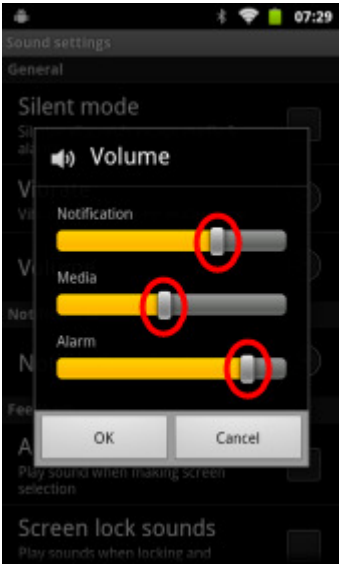


Note: Place tags within 2mm of the NFC scanning area to ensure successful scans.

Adjusting Volume

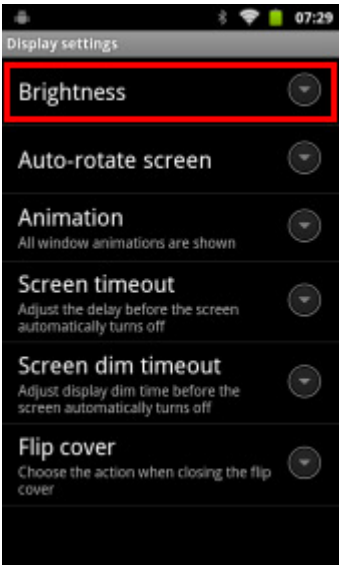
1. Select **Application drawer > Settings > Sound > Volume.**
2. Drag the slide bar to adjust the volume

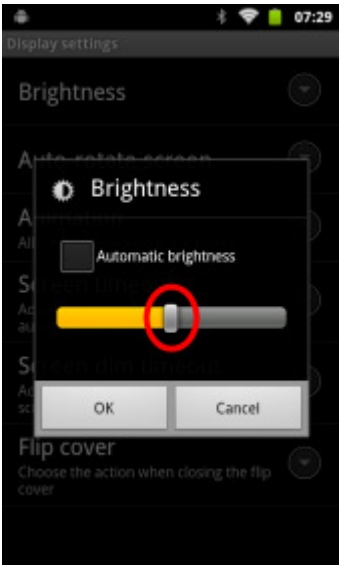




Adjusting Brightness

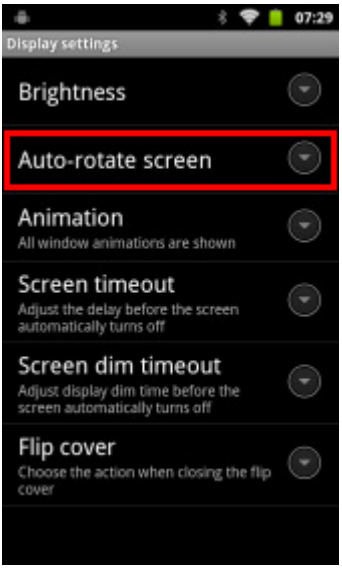
1. Select **Application drawer > Settings > Display > Brightness**.
2. Drag the slide bar to adjust the backlight, or select **Automatic brightness** checkbox for auto brightness adjustment.

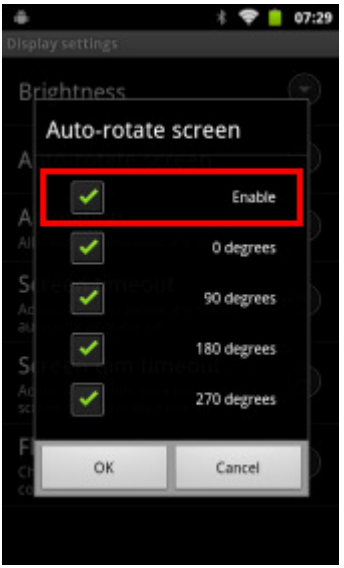




Enabling Auto-rotate screen

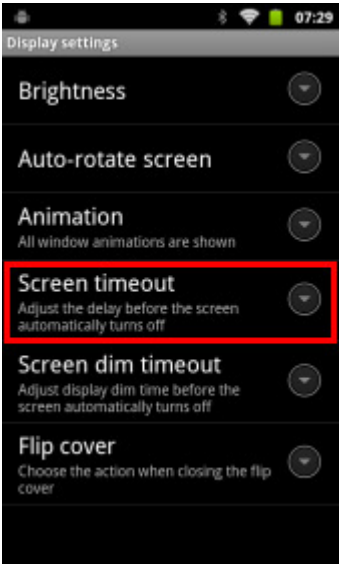
1. Select **Application drawer > Settings > Display > Auto-rotate screen**.
2. Select the **Enable** checkbox.
3. Select the rotation angles, and select **OK**.

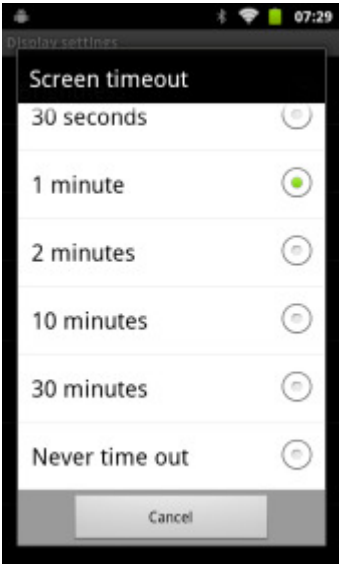




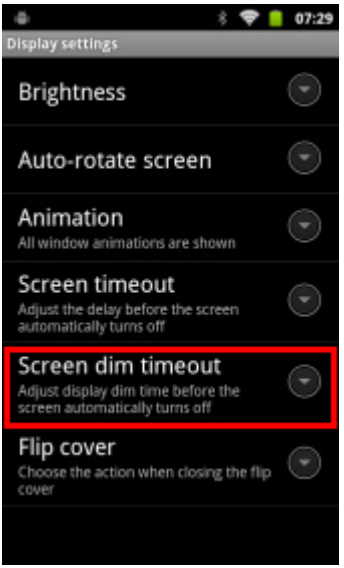
Adjusting Screen timeout & Screen dim timeout

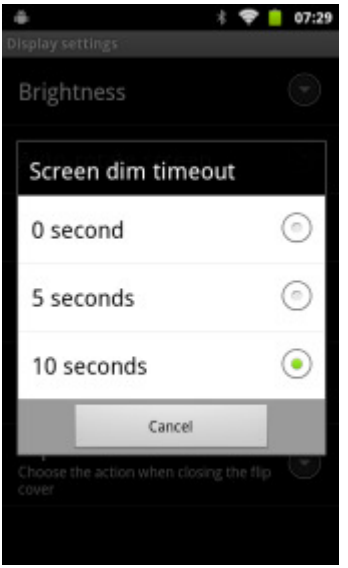
1. Select **Application drawer > Settings > Display > Screen timeout** to adjust the idle period elapsed before turning off screen.





2. Select **Application drawer > Settings > Display > Screen dim timeout** to adjust the screen dim period before screen is turned off.

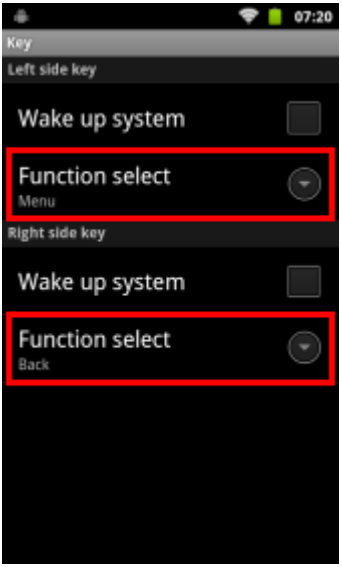


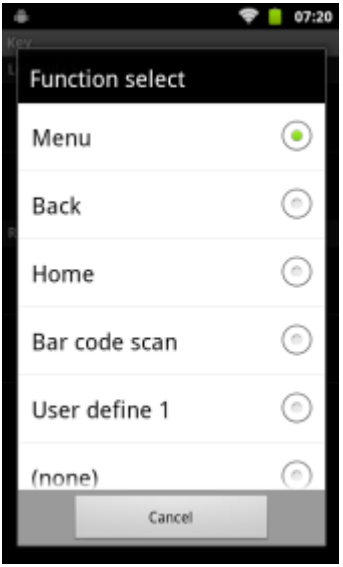


Defining Keys

1. Select **Application drawer > Settings > Key**.

2. In Left side key and Right side key menu, select **Function select** to change the key definition.

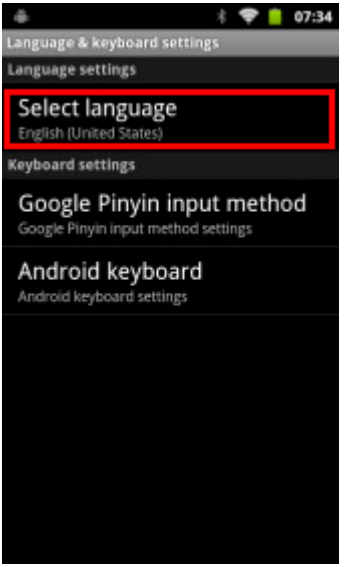




Note: The Left side key and Right side key are default as Menu key and Back key.

Changing Language

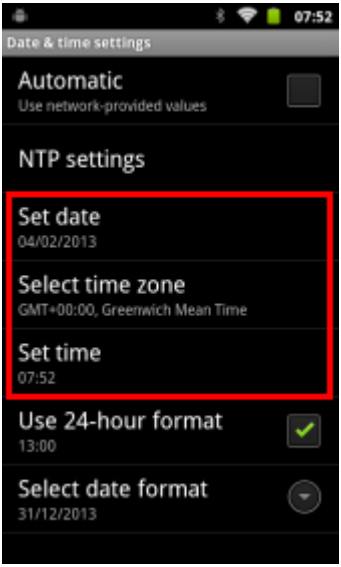
1. Select **Application drawer > Settings > Language & keyboard > Select language**
2. Select a language.



Adjusting Date & Time

1. Select **Application drawer > Settings > Date & time.**
2. To set the date and time manually, adjust **Set date, Select time zone, Set time** accordingly.

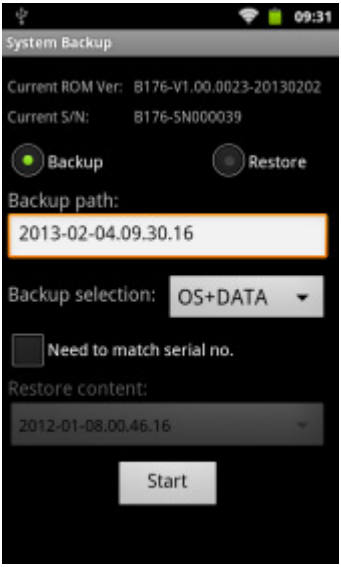
Alternatively, select the **Automatic** checkbox, and input NTP server details in **NTP settings** for automatic time sync.



Performing System Backup

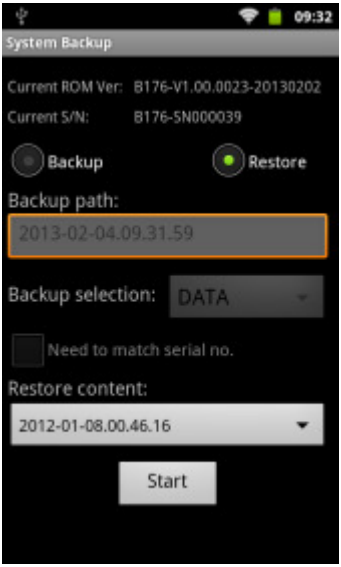
1. Insert a MicroSD card with minimum 400MB of free space to the MicroSD card slot.
2. Select **Application drawer > System Backup.**
3. Select the **Backup** button.
4. Select backup data option from **Backup selection** drop down menu.
5. To restore the back up image on current device only, select **Need to match serial no.** checkbox.
6. Select **Start.**

Note: Close all active programs before starting backup or restore.



Performing System Restore

1. Insert the MicroSD card with backup image to the MicroSD card slot.
2. Select **Application drawer > System Backup.**
3. Select the **Restore** button.
4. Select the backup image file from **Restore content** drop down menu.
5. Select **Start.**


09:32
System Backup
Current ROM Ver: B176-V1.00.0023-20130202
Current S/N: B176-SN000039
Backup
Restore
Backup path:
2013-02-04.09.31.59
Backup selection:
DATA
Need to match serial no.
Restore content:
2012-01-08.00.46.16
Start

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types DT4000 D: VRI-B176) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification when properly worn on the body is 0.118W/Kg. This device was tested for typical body-worn operations with the back of the handset kept 5mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 5mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications made to this equipment not expressly approved by Group Sense Mobile-Tech Limited may void the FCC authorization to operate this equipment.

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