



Cat@ S48c Smartphone  
User Manual

---

# PLEASE READ BEFORE FIRST USE SAFETY PRECAUTIONS

- Please read this manual and the recommended safety precautions carefully to ensure the correct use of this device.
- Despite its rugged nature; avoid hitting, throwing, crushing, puncturing or bending the device.
- If used in salt water, rinse the device afterwards to avoid salt corrosion.
- Do not attempt to disassemble the device or its accessories. Only qualified personnel can service or repair it.
- Do not switch on the device in a circumstance where the use of mobile phones is prohibited, or in a situation where the device may cause interference or danger.
- Do not use the device whilst driving.
- Switch off the device near medical apparatus and follow the rules or regulations regarding mobile phone use in hospitals and health care facilities.
- Switch off the device or activate aeroplane mode when situated in an aircraft, as it may cause interference to the vessel's control equipment.
- Switch off the device near high-precision electronic devices as it may affect their performance.
- Do not place the device or its accessories in containers with a strong electromagnetic field.
- Do not put magnetic storage media near the device. Radiation from the device may erase the information stored on them.
- Do not use the device in an environment with flammable gas, such as a gas station, or put the device in a high-temperature place.
- Keep the device and its accessories away from young children.
- Do not allow children to use the device without guidance.
- Use only approved batteries and chargers to avoid the risk of explosion.
- Observe any laws or regulations on the use of wireless devices. Respect others' privacy and legal rights when using the wireless device.
- For medical implant patients (heart, joints, etc), keep the device 15cm away from the implant and, during a phone call, keep the device positioned on the opposite side of the implant.
- Strictly follow the relevant instructions of this manual while using the USB power cable, otherwise it may cause damage to your device or PC.

# LEGAL NOTICE

© 2017 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, BUILT FOR IT, their respective logos, "Caterpillar Yellow," the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission. Bullitt Mobile Ltd is a licensee of Caterpillar Inc.

Bullitt Mobile Ltd.'s and third-party trademarks are the property of their respective owners.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Caterpillar Inc.

The product described in this manual may include copyrighted software and possible licensors. Customers shall not in any manner reproduce, distribute, modify, decompile, disassemble, decrypt, extract, reverse engineer, lease, assign, or sublicense the said software or hardware, unless such restrictions are prohibited by applicable laws or such actions are approved by respective copyright holders under licenses.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Bullitt Group is under license. All other third-party trademarks and trade names are those of their respective owners.

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.

## NOTICE

Some features of the product and its accessories described herein rely on the software installed, capacities and settings of local network, and may not be activated or may be limited by local network operators or network service providers. Therefore, the descriptions in this manual may not exactly match the purchased product or its accessories.

The manufacturer reserves the right to change or modify any information or specifications contained in this manual without prior notice or obligation.

The manufacturer is not responsible for the legitimacy and quality of any products that you upload or download through this device including text, pictures, music, movies, and non-built-in software with copyright protection. Any consequences arising from the installation or usage of the preceding products on this device is accountable to you.

## NO WARRANTY

The contents of this manual are provided "as is". Except as required by applicable laws, no warranties of any kind, either express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy, reliability or contents of this manual.

To the maximum extent permitted by applicable law, in no case shall the manufacturer be liable for any special, incidental, indirect, or consequential damages; or lost profits, business, revenue, data, goodwill or anticipated savings.

## IMPORT AND EXPORT REGULATIONS

Customers shall comply with all applicable export or import laws and regulations. Customers must obtain all necessary governmental permits and licenses to export, re-export or import the product mentioned in this manual including the software and technical data.

# CONTENTS

|                                                       |    |
|-------------------------------------------------------|----|
| PLEASE READ BEFORE FIRST USE SAFETY PRECAUTIONS       | 2  |
| LEGAL NOTICE                                          | 3  |
| NOTICE                                                | 3  |
| NO WARRANTY                                           | 3  |
| IMPORT AND EXPORT REGULATIONS                         | 3  |
| WELCOME TO THE CAT® S31 SMARTPHONE                    | 6  |
| RUGGED CREDENTIALS                                    | 6  |
| WHAT'S IN THE BOX                                     | 7  |
| KEY FUNCTIONS                                         | 7  |
| GETTING STARTED                                       | 8  |
| INSTALLING A NANO SIM CARD                            | 8  |
| INSTALLING A MEMORY CARD                              | 8  |
| CHARGING THE BATTERY                                  | 8  |
| IMPORTANT INFORMATION REGARDING FUTURE USE OF BATTERY | 9  |
| POWERING YOUR DEVICE ON/OFF                           | 9  |
| TOUCHSCREEN                                           | 10 |
| HOME SCREEN                                           | 10 |
| LOCKING AND UNLOCKING THE SCREEN                      | 10 |
| DISPLAY                                               | 10 |
| NOTIFICATION PANEL                                    | 12 |
| SHORTCUT ICONS                                        | 12 |
| WIDGETS                                               | 12 |
| FOLDERS                                               | 13 |
| WALLPAPERS                                            | 13 |
| TRANSFERRING MEDIA TO AND FROM YOUR DEVICE            | 13 |
| USING AEROPLANE MODE                                  | 13 |
| DEVICE                                                | 14 |
| MAKING A PHONE CALL                                   | 14 |
| WIDGETS                                               | 14 |
| CONTACTS                                              | 15 |
| WI-FI®                                                | 17 |

|                                    |    |
|------------------------------------|----|
| SMS AND MMS                        | 18 |
| BLUETOOTH®                         | 19 |
| TAKING PHOTOS AND RECORDING VIDEOS | 20 |
| LISTENING TO FM RADIO              | 22 |
| SYNCHRONISING INFORMATION          | 22 |
| USING OTHER APPLICATIONS           | 23 |
| MANAGING THE DEVICE                | 25 |
| PROTECTING THE DEVICE              | 27 |
| MANAGING APPLICATIONS              | 27 |
| RESETTING THE DEVICE               | 28 |
| HARDWARE RESET                     | 28 |
| VIEWING THE E-LABEL                | 28 |
| APPENDIX                           | 29 |
| RF EXPOSURE INFORMATION (SAR)      | 33 |
| PREVENTION OF HEARING LOSS         | 34 |
| DISPOSAL AND RECYCLING INFORMATION | 34 |
| S48c SPECIFICATION                 | 36 |

# WELCOME TO THE CAT® S31 SMARTPHONE

The truly rugged smartphone with ultra-tough features and a battery that lasts for longer. Built to handle the extreme conditions you face every day at work and play. Drop it, dunk it, or forget to charge it - the Cat S31 will not let you down.

Your smartphone is not only certified to the highest industry standard for ruggedness, MIL SPEC 810G and IP68 water and dust resistant, it also boasts capabilities that reach beyond these tests. Drop-proof onto concrete from an impressive height of 1.8m, tough enough to handle thermal shocks and salt mist spray, waterproof for up to 35 minutes in depths of up to 1.2 metres. The Cat S31 will stay connected, no matter what life throws at it.

The Cat S31 is the practical smartphone, packed with genuinely useful features so that you can make the most out of your day. Its high capacity battery and expandable storage of up to 128GB guarantees that the daily performance will not be compromised. Its large and bright, scratch-resistant 5.0" FHD display can be read in direct sunlight and can even be used when it's wet or if you're wearing gloves. Plus, its easy-grip design features a multi-function programmable key - useful for Push to Talk (PTT), or to easily launch its torch or camera.

## RUGGED CREDENTIALS

### DROPPING YOUR DEVICE:

- Do: Use your device up to a height of 1.8 metres – it is drop proof within this height range.
- Don't: Throw your device with force from above the 1.8-metre range. The device is durable, but not indestructible.

### WATERPROOFING:

- Do: Use your device in damp and wet conditions - the 5.0" multi-touch screen works with wet fingers. Ensure that all components and covers are properly closed before using your device in water. The device can withstand a depth of 1.2 metres, for up to 35 minutes.
- Don't: Forget to close your device's components and covers before using it in water, or attempt to use the device beyond a 1.2 metre depth.

### DUSTPROOF AND SCRATCHPROOF:

- Do: Use your device in dirty, dusty environments. The Cat S31 is certified IP68, an industry standard measure for durability and its display is made from scratch-resistant Corning® Gorilla® Glass 3.

### EXTREME TEMPERATURES:

- Do: Use your device within the temperature range of -20° C to + 55° C. It can also handle extreme changes in temperature: shifting between cold and hot, or vice versa very quickly.
- Don't: Use your device outside its operational range of -20° C to + 55° C – it is not built for a freezer or an oven.

## WHAT'S IN THE BOX

- Device
- Quick Start Guide
- USB power cable and charging power adapter
- Factory fitted screen protector already on the device



## KEY FUNCTIONS

### POWER KEY

- Press to turn on the device
- Press and hold to open the phone Options Menu
- Press to lock or wake the screen when the device is idle

### HOME BUTTON

- Press at any time, when the phone is on and unlocked, to display the Home Screen
- Hold down the Home button to use your Google assistant

### RECENT APPS BUTTON

- Press at any time to open recently used apps

### BACK BUTTON

- Press to go back to the previous screen
- Press to close the on-screen keyboard

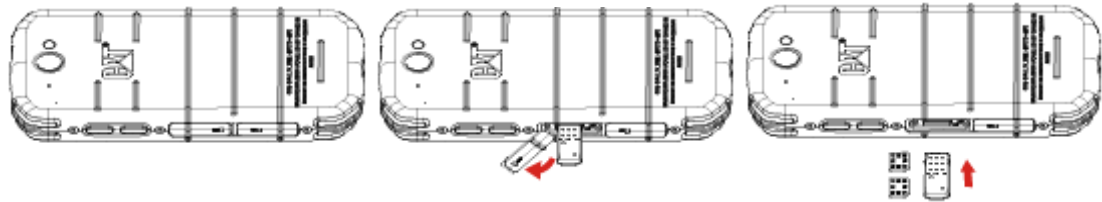
### VOLUME UP/DOWN KEY

- Volume – Press the Volume up key to increase the volume, or the Volume down key to decrease the volume of the call, ringtone, media or alarm
- Screenshot – Press both Power and Volume down keys simultaneously. Screenshots are saved in the photo album
- When in the camera app, press the Volume up/down key to take

# GETTING STARTED

## INSTALLING A NANO SIM CARD

1. Place your device on a flat surface with the display facing downwards. Then open the side door.
2. Use your fingertip to pull out the SIM tray from below the label.
3. Put the Nano SIM card in the SIM tray as indicated on the tray guide with gold pins facing upwards.
4. Insert the SIM tray back into the SIM card slot.



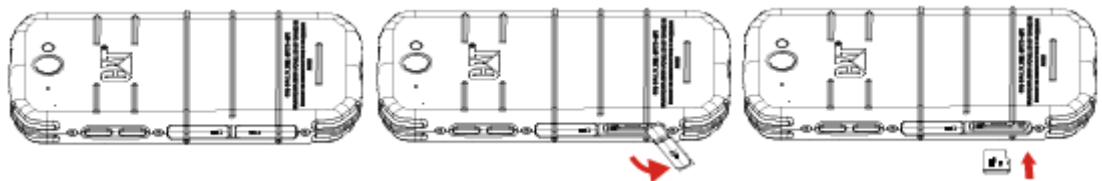
### NOTE

- Ensure the SIM card is fixed securely in the SIM tray.
- Push the SIM tray until it is fully inserted in the slot.
- To remove the Nano SIM card, use your fingertip to pull the tray out. Then remove the Nano SIM card.

Configuration of SIM 1: 4G / 3G / 2G

## INSTALLING A MEMORY CARD

1. Place your device on a flat surface with the display facing down. Then open the side door.
2. Insert a microSD™ card into the memory card slot with gold pins facing upwards.



### NOTE:

- Push the memory card until you hear a locking sound.
- To remove the microSD card, press against the edge of the memory card and release it.
- Do not force the microSD card as this could damage the memory card or slot.

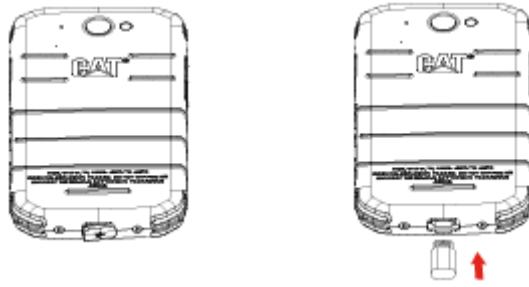
## CHARGING THE BATTERY

Charge the battery before using your device for the first time.

1. Connect the USB power cable to the charging power adapter.
2. Open the USB port cover and then connect the USB power cable to the USB port.

### NOTE:

- Only use Cat approved chargers and cables. Unapproved equipment may cause damage to the device or cause batteries to explode.



**NOTE:**

- Be careful not to use excessive force when connecting the USB cable and be aware of the correct orientation of the plug.
  - Attempting to insert the connector incorrectly may cause damage that will not be covered by the warranty.
3. Plug the charger into the appropriate AC mains socket.
  4. When your device is fully charged, firstly, unplug the USB cable from the device, then unplug the charger from the mains socket. Close the USB port cover on the device after charging.

## IMPORTANT INFORMATION REGARDING FUTURE USE OF BATTERY

If the battery is completely exhausted, your device may not power on immediately after charging starts. Before attempting to turn it on, allow the battery to charge for a few minutes. The on-screen charge animation may not be displayed during this period.

When the battery power level is low, your device plays an alert and displays a prompt. When the battery power is almost exhausted, your device will power off automatically.

**NOTE:**

The time required to charge the battery depends on the environmental temperature and the age of the battery.

## POWERING YOUR DEVICE ON/OFF

### POWER ON

1. Press the Power key .

When you turn on your device for the first time, a Welcome Screen will be displayed. Firstly, select your preferred language and then tap GET STARTED to continue with the set-up process.

**NOTE:**

- A Wi-Fi or Data connection is required.

You can skip set-up and complete it at another time. However, a Google account is required to use some of the Google services on this Android™ device.

### POWERING OFF

1. Press and hold the Power key to open the Phone options menu.
2. Tap Power off.

# TOUCHSCREEN

## TOUCHSCREEN ACTIONS

- **Tap:** Use your fingertip to select an item, confirm a selection, or start an application on the screen.
- **Tap and hold:** Tap an item with your fingertip and continue to press down until the screen responds. For example, to open the options menu for the active screen, tap the screen and hold down until the menu appears.
- **Swipe:** Move your finger across the screen either vertically or horizontally. For example, swipe left or right to switch between pictures.
- **Drag:** If you want to move an item, tap and hold it with your fingertip. Now drag the item to any part of the screen.

# HOME SCREEN

The Home Screen is the starting point for accessing your device's features. It displays application icons, widgets, shortcuts and more. It can be customised with different wallpapers and can be adjusted to display your preferred items.

### NOTE:

- A long press on an empty space on the Home Screen will launch the shortcut to wallpapers, widgets and settings.

# LOCKING AND UNLOCKING THE SCREEN

## LOCKING THE SCREEN

1. If your device is turned on, press the Power key to lock the screen. You can still receive messages and calls, even if the screen is locked.

## UNLOCKING THE SCREEN

1. Press the **Power** key to wake up the screen. Then, drag the lock icon  upwards to unlock the screen. You may have to enter your pattern or PIN code if pre-set.
2. To launch the Camera app directly from the locked screen, drag the  camera icon upwards.

### NOTE:

- You can wake up the screen by double tapping the Home button twice. For details, refer to 'Using the Double Tap Wake Function' on page 25.
- If you have set up a screen lock, there will be a prompt to unlock the screen. For details, refer to 'Protecting the Device with a Screen Lock' on page 26.

# DISPLAY

## DISPLAY LAYOUT

## NOTIFICATIONS AND STATUS INFORMATION

The Status bar appears at the top of every screen. This displays notification icons, such as missed calls or received messages (on the left) and phone status icons, such as battery status (on the right), in addition to the current time.

## STATUS ICONS



Notifications Bar

Status Icon

## NOTIFICATIONS ICONS

|     |                                   |  |                                    |
|-----|-----------------------------------|--|------------------------------------|
| 4G  | Connected to 4G mobile network    |  | Vibrate mode                       |
| LTE | Connected to LTE mobile network   |  | Location is found                  |
| 3G  | Connected to 3G mobile network    |  | Battery indicator, battery is full |
| G   | Connected to GPRS mobile network  |  | Battery is charging                |
| E   | Connected to EDGE mobile network  |  | FM radio is turned on              |
| H   | Connected to HSDPA mobile network |  | Airplane mode                      |
| H+  | Connected to HSPA+ mobile network |  | Connected to a Wi-Fi network       |
| R   | Roaming                           |  | Connected to a Bluetooth device    |
|     | Mobile network signal strength    |  | Wi-Fi uploading                    |
|     | No mobile network signal          |  | Wi-Fi downloading                  |

|  |                              |  |                           |
|--|------------------------------|--|---------------------------|
|  | New email message            |  | Missed call               |
|  | New text message             |  | Speakerphone is activated |
|  | Upcoming event               |  | Phone microphone is muted |
|  | Alarm is set                 |  | Downloading data          |
|  | Data is syncing              |  | Headphones are connected  |
|  | Problem with sign-in or sync |  | A screenshot is captured  |

# NOTIFICATION PANEL

Your device will launch a notification when you receive new messages, have a missed call, if there is an upcoming event and more. Open the notification panel to view your notifications.

## OPENING THE NOTIFICATION PANEL

1. When a new notification icon appears on the notification bar, tap the notification bar, then drag it down to open the notification panel.
2. Tap a notification to open it.
3. If you want to close a notification (without viewing it), simply tap and hold the notification and drag it to the left/right of the screen.

## CLOSING THE NOTIFICATION PANEL

1. To close the notification panel, slide the bottom of the panel upwards.

# SHORTCUT ICONS

## ADDING A NEW HOME SCREEN ITEM

1. Tap  to show all applications.
2. Drag an application icon to a specific Home screen.

## MOVING A HOME SCREEN ITEM

1. Tap and hold an application icon on the Home screen until the icon enlarges.
2. Without lifting your finger, drag the icon to the desired position on the screen, and then release it.

### NOTE:

- There must be enough space for the icon to fit on the current Home screen panel.

## REMOVING A HOME SCREEN ITEM

1. Tap and hold an application icon on the Home screen until the icon enlarges.
2. Without lifting your finger, drag the item to remove and then release it.
3. Additionally, applications can be uninstalled by following steps 1 and 2, then dragging the application to the Uninstall icon at the top of the screen.

# WIDGETS

A widget lets you preview or use an application. Widgets can be placed on your Home screen as icons or preview windows. Several widgets are installed by default on device and you can download additional widgets from Google Play.

## ADDING A WIDGET

1. Tap and hold the Home screen.
2. Tap widgets to show available widgets.
3. Drag your desired widget to the Home screen.

## REMOVING A WIDGET

1. Tap and hold the widget icon on the Home screen until the icon enlarges.
2. Without lifting your finger, drag the item to Remove, then release it.

# FOLDERS

## CREATING A FOLDER

Drag the application icon or shortcut and release it on top of other applications.

## RENAMING A FOLDER

1. Tap a folder to open it.
2. Enter a name for the new folder in the title bar.
3. Then press the Back button.

# WALLPAPERS

## CHANGING THE WALLPAPER

1. Tap and hold the Home screen.
2. Tap Wallpapers.
3. Scroll through the available options.
4. Tap your favourite image, then press Set Wallpaper.
5. You can now choose whether to set it as the Lock Screen wallpaper, the Home Screen wallpaper or both.

# TRANSFERRING MEDIA TO AND FROM YOUR DEVICE

Transfer your favourite music and pictures between your device and PC in the Media Device MTP mode.

1. Firstly, connect your device to a PC with the USB power cable.
2. Then open the notification panel and tap the USB connection options. Tap transfer files to activate the MTP mode.
3. Your device should be displayed as a removable device displaying the phone's internal storage. If a memory card is inserted, the microSD card will also be visible. Copy the desired files onto the device.

### NOTE:

- If you are using a MAC PC, the drivers must be downloaded from: <http://www.android.com/filetransfer/>

# MAKING A PHONE CALL

There are several ways to place a phone call.

1. Either, dial a number into the keypad.
2. Or, select a number from your contacts list, a Web page, or from a document that contains a phone number.

## NOTE:

- When you're on a phone call, incoming phone calls can either be answered or sent to your voicemail. You can also set up conference calls with several participants.

## MAKING A PHONE CALL WITH THE KEYPAD

1. From the Home screen, tap . Then tap  to display the keypad.
2. Dial a phone number by tapping the numeric keys.

Tip: Your device supports the SmartDial function. As you type a number into the keypad, the SmartDial function automatically searches through your contact list and lists predictions for a contact that matches the number. You can close the keypad to view more possible matches.

3. After you enter the number, or select the contact, tap .

## MAKING A PHONE CALL FROM CONTACTS

1. From the Home screen, tap  > Contacts  to display the contact list. From the keypad, tap the  tab to display the contact list.
2. In the list, select a contact.
3. Tap the phone number to call the contact.

## MAKING A PHONE CALL FROM THE CALL LOG

1. Tap  > Phone  >  tab. The Call Log displays the latest calls you have made and received.
2. Select a contact from the list and tap  to make a call.

## ANSWERING AND REJECTING A PHONE CALL

When you receive a phone call, the incoming call screen will show the caller ID.

1. To answer a call, tap  and drag it to up. 
2. To reject the call, tap  and drag it to down. 
3. To reject the call and instead send a message directly to the caller, drag it to upwards . Then select one of the available template message options, or tap Write Your Own to compose a personal message.

## ENDING A PHONE CALL

During a phone call, tap  to hang up.

## OTHER OPERATIONS DURING A PHONE CALL

### MAKING A CONFERENCE CALL

In the conference calling feature, you can set up a call with multiple participants.

## NOTE:

- Contact your network operator to find out if your device's subscription supports conference calls and how many participants can be added.

1. To initiate a conference call, dial the number of the first participant and tap  to make the call.
2. During your call with the first participant, tap  > Add call and enter the phone number of the next participant.
3. Tap , or select a contact from the Call Log or Contacts. The first call will be automatically placed on hold.
4. Once the additional call has been connected, tap . Merge calls.
5. To add more people, tap  and repeat steps 2 to 4.
6. To end the conference call and disconnect everyone, tap .

#### NOTE:

- Remember to contact your network operator to find out whether your subscription supports conference calls and how many participants you can add.

## SWITCHING BETWEEN PHONE CALLS

If you receive an incoming call during a current phone call, it is possible to switch between the two calls.

1. When both calls are in progress, tap the contact's name or phone number in the lower left corner of the screen.
2. Your current call will be placed on hold and you will be connected to the other call.

# CONTACTS

The Contacts application allows you to save and manage information about your contacts.

## OPENING THE CONTACTS APPLICATION

When you set up the device, Contacts will display a message outlining how to start adding contacts. To open the application, do one of the following:

- Tap  and then Contacts .
- Tap  on the Home screen. Then tap the  tab to display your contact list.

#### NOTE:

- Your contacts will be displayed alphabetically in a scrolling list.

## COPYING CONTACTS

You can copy your contacts saved in a Google account or from the SIM card, internal storage, or memory card.

1. In the contacts list, tap  > Import / Export.
2. Do one of the following:
  - a) To import contacts saved in a Google account:
    - Select the personal account and tap Next. Google can auto update the contacts.
  - b) To import contacts from the SIM card:
    - Tap USIM and tap Next. Specify where to import the contacts to and tap Next. Then select the desired contact(s) and tap OK.
  - c) To import contacts from the internal storage or memory card:
    - Tap Internal shared storage or SD card. If there is more than one vCard file, there will be options to either import one vCard file, multiple vCard files, or all vCard files.

## BACKING UP CONTACTS

You can copy your contacts onto to your SIM card, the device's internal storage, or a memory card.

1. In the contacts list, tap  > Import / Export.
2. Now, do one of the following:

- a) To Import/Export contacts to the SIM card:  
Select a personal account or tap Phone contact. Then select the desired contact(s) and tap OK.
- b) To export contacts to the internal storage or memory card:  
Select a personal account or tap Phone contact. Tap Internal Shared Storage or SDCard ,you can handly choose the selection.

## ADDING A NEW CONTACT

1. In your contacts list, tap  to add a new contact.
2. Specify where to store the contact. Now enter the contact's name, then add any detailed information such as a phone number or address.
3. When you're finished, tap  to save the contact information.

## ADDING A CONTACT TO FAVOURITES

1. Tap the contact you want to add to Favourites.
2. Tap the  icon beside the name of your chosen contact and the icon will turn white (solid) . It has been added to your Favourites.

## SEARCHING FOR A CONTACT

1. In your Contacts list, tap  to search for a contact.
2. Type the contact's name and contacts with matching names will appear below the search box.

## EDITING A CONTACT

You can always change the information you have stored for a contact.

1. In your Contacts list, tap the contact you want to edit.
2. Tap .
3. Make your changes to the contact information, then tap . To cancel the changes you have made, press the Back button.

## COMMUNICATING WITH YOUR CONTACTS

You can reach a contact by phone call, text (SMS) or multimedia message (MMS) from the Contacts or Favourites tab.

1. In your Contacts list, tap a contact to communicate with.
2. You can either:
  - Tap the phone number to make a call.
  - Or, tap  to send a message.

## DELETING A CONTACT

1. In your Contacts list, tap the contact you want to delete.
2. Tap  > Delete.
3. Tap Delete again to confirm.

## USING THE ON-SCREEN KEYBOARD

### DISPLAYING THE KEYBOARD PANEL

Some applications open the keyboard automatically. In others, tap a text field to open the keyboard. Press the Back button to hide the keyboard.

### USING THE LANDSCAPE KEYBOARD

If you find it difficult to use the keyboard in portrait orientation, simply turn the device sideways. The screen will now display

the keyboard in landscape orientation, providing you with a wider keyboard layout.

## CUSTOMISING YOUR KEYBOARD SETTINGS

1. Tap  > Settings  > Languages & Input.
2. You can either:
  - Tap the Virtual keyboard to configure the keyboard settings.
  - Or, tap Physical keyboard to keep the virtual keyboard on screen. This mode will also show available keyboard shortcuts.

## REGISTRATION

Register your new Cat phone to become part of the Cat phones community for the latest news, updates and offers.  
Tap the Registration app and follow the on screen instructions

# WI-FI®

Access to wireless access points (hotspots) is required to use Wi-Fi on your device.

## TURNING ON WI-FI AND CONNECTING TO A WIRELESS NETWORK

1. Tap  > Settings .
2. In Wireless & networks, tap Wi-Fi and slide the switch to the right . Choose a Wi-Fi network to connect to.
3. If you select an open network, the device will connect automatically. But if you're attempting to connect to a secured network for the first time, you must enter the password, then tap Connect.

### NOTE:

- You will not have to re-enter the password for a secured network if you have connected to it before, unless the device has been reset to its default settings or if the Wi-Fi password has been changed.
- Obstacles blocking the Wi-Fi signal will reduce its strength.

Tip: On the Wi-Fi settings screen, tap Add network to add a new Wi-Fi network.

# SMS AND MMS

## OPENING MESSAGING

To open the application, do one of the following:

- Tap  on the Home screen.
- Tap  > Messaging 

## CREATING AND SENDING A TEXT MESSAGE

You can create a new text message, or open an ongoing message thread.

1. Tap  to create a new text or multimedia message.
2. Enter a phone number or a contact name into the Type name or number field. When you type, the SmartDial will attempt to match it with the device's contacts. Either tap a suggested recipient or continue to type. If you want to open an existing message thread, simply tap it.
3. Tap the text box to compose your message. If you press the Back button whilst composing a message, it will save as a draft in the message list. Tap the message to resume.
4. When your message is ready to send, tap .

### NOTE:

- As you view and send additional messages, a message thread is created.

## CREATING AND SENDING A MULTIMEDIA MESSAGE

1. On the messaging screen, tap .
2. Enter a phone number or contact name into the Type name or number field or tap  to add a phone number from the Contacts list.
3. Tap the text box to compose your message.
4. Tap  and select the type of media file you want to attach to the message.
5. Once you're done, tap .

## OPENING AND REPLYING TO A MESSAGE

1. In the message list, tap a text or multimedia message thread to open it.
2. Tap the text box to compose a message.
3. Once finished, tap .

## CUSTOMISING THE MESSAGE SETTINGS

In the message list, tap > Settings to customise your message settings. Choose from:

- Sound: Set a ringtone for new messages.
- Vibrate: Slide the switch to the right to enable your device to vibrate when receiving new messages.

Your Cat S31 has Bluetooth. It can create a wireless connection with other Bluetooth devices, so you can share files with your friends, talk hands-free with a Bluetooth headset, or even transfer photos from your device to a PC.

If you are using Bluetooth, remember to stay within 10 metres of the Bluetooth device you want to connect to. Be aware that obstacles like walls or other electronic equipment may interfere with the Bluetooth connection.

## TURNING ON BLUETOOTH

1. Tap  > Settings .
2. In Wireless & networks, tap Bluetooth and slide the switch to the right .

When Bluetooth is on, the Bluetooth icon will appear in the notification bar.

## PAIRING AND CONNECTING A BLUETOOTH DEVICE

Common uses for Bluetooth are:

- Using a hands-free Bluetooth device.
- Using a mono or stereo Bluetooth headset.
- Controlling what plays through the Bluetooth headset remotely.

Before you use Bluetooth, you need to pair your device with another Bluetooth device as follows:

1. Ensure that the Bluetooth function on your device is enabled.
2. The Cat S31 will then search for Bluetooth devices in range. Or tap > Refresh. .
3. Tap the device you want to pair with.
4. Follow the on-screen instructions to complete the connection.

### NOTE:

- Once a partnership has been created, you will no longer have to enter a password if you connect to that Bluetooth device again.

## SENDING FILES VIA BLUETOOTH

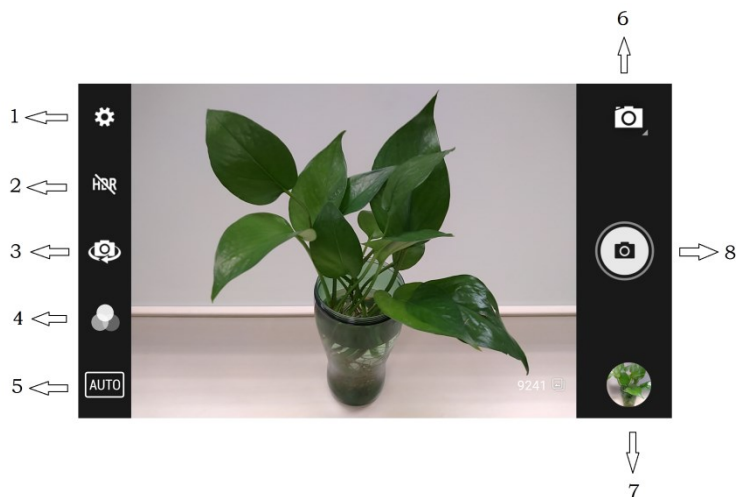
With Bluetooth, you can share pictures, videos, or music files with family and friends. To send files via Bluetooth:

1. Tap the file you want to send.
2. Tap  > Bluetooth, and then select a paired device.

## DISCONNECTING OR UNPAIRING A BLUETOOTH DEVICE

1. Tap  > Settings .
2. In Wireless & Networks, tap Bluetooth.
3. In the connected device option, tap  and then tap Forget to confirm the disconnection.

# TAKING PHOTOS AND RECORDING VIDEOS



- 1 Configure the other camera settings
- 2 Apply facial enhancement effects
- 3 Switch between the front and main camera
- 4 Choose different special effect
- 5 Choose the scene mode
- 6 Select capturing mode
- 7 Shutter button – Take photos  or record videos 
- 8 View photos and videos

## To Take a Photo From the Lockscreen

- 1 To activate the screen, briefly press the power key .
- 2 To activate the camera, touch and hold , then swipe it anywhere.
- 3 After the camera opens, tap .

You can activate the camera when the screen is locked and inactive. To do this, press the camera key fully. Press again to take a photo.

## To Take a Selfie Using the Front Camera

- 1 Activate the camera.
- 2 Tap .
- 3 To take the photo, press the camera key.

## To use the still camera flash

- 1 When the camera is open, tap .
- 2 Tap Flash mode.
- 3 Select your desired flash setting.
- 4 Take the photo.

### To Record a Video

- 1 Activate the camera.
- 2 If video mode is not selected, tap , and then select .
- 3 Point the camera toward the subject.
- 4 To start recording, tap .
- 5 To pause when recording a video, tap . To resume recording, tap .
- 6 To stop recording, tap .

### To Take a Photo when Recording a Video

- Click the screen when recording a video.

### To view your photos and videos

- 1 Activate the camera, then tap a thumbnail to open a photo or video.
- 2 Flick left or right to view your photos and videos.

### To Delete a Photo or Video

- 1 Find the photo or video you want to delete.
- 2 Tap the screen to display the toolbar.
- 3 Tap  to delete a Photo or Video.
- 4 Tap undo to undelete.

## General camera settings

### Capturing Modes Overview

You can choose from a range of capturing modes and camera apps. Simply swipe left or right on the camera screen to switch between them.



#### Manual

Manually adjust camera settings such as flash mode, ISO, and white balance.



#### Video camera

Manually adjust video settings to suit any scene.



#### Camera apps

Select camera applications manually.

To learn more about how to take better photos, go to [support.sonymobile.com](http://support.sonymobile.com).

### Panorama

You can take wide-angle and panoramic photos with an easy press-and-sweep motion.

### To Take a Panoramic Photo

- 1 Activate the camera.
- 2 Tap , and then select .
- 3 Tap the camera key and move the camera slowly and steadily in the direction of movement indicated on the screen .

## Saving a Photo's Geographic Location

Enable the Saving location function to geotag your photos, saving the approximate geographical location as you shoot. The geographical location is determined by wireless networks and GPS technology.

### To Turn On Geotagging

- 1 Activate the camera.
- 2 Tap .
- 3 Tap Store location, then tap  on.

## Touch to adjust

Touch the screen to choose an area to focus on while taking pictures.

Focus only

Focus and brightness

This function is available in Superior auto mode only.

## Use Volume Key as

Shutter

Use the volume key to take photos.

## Shutter Sound

When you take a photo or start recording a video, the camera makes a shutter sound. If you use the self-timer, it will make a series of beeps to mark the countdown. You can choose to turn these sounds on or off.

## Data Storage

You can choose to save your data either to a removable SD card or to your device's internal storage.

Internal storage

Photos or videos are saved on the device memory.

SD card

Photos or videos are saved on the SD card.

## Still camera settings

### To adjust the still camera settings

- 1 Activate the camera.
- 2 To display all settings, tap .
- 3 Select the setting that you want to adjust, then edit as desired.

## Still camera settings overview

### Picture size

Main camera:

13MP

4128×3096 (4:3)

12-megapixel resolution with 4:3 aspect ratio. Suitable for photos you want to view on non-widescreen displays or print in high resolution.

Front camera:

5MP

3072×1728 (16:9)

5-megapixel picture size with 16:9 aspect ratio. Suitable for photos you want to view on non-widescreen displays or print in high resolution.

### Flash mode

Use the flash to take photos when lighting conditions are poor or when there is a backlight. The following options are available when you tap the flash icon  on the camera screen:



Off

The flash is turned off. Sometimes photo quality can be better without the flash, even if lighting conditions are poor. Taking a good photo without using the flash requires a steady hand. Use the self-timer to avoid blurred photos.



Auto

The camera automatically determines whether the lighting conditions require the use of a flash.



On

Use this setting when the background is brighter than the subject. This setting removes unwanted dark shadows.

### Countdown timer

With the self-timer, you can take a photo without holding the device. Use this function to take self-portraits or group photos with everyone in the photo. You can also use the self-timer if you want to avoid shaking the camera when taking photos.

Off

The photo is taken as soon as you tap the shutter button or press the camera key.

2 sec.

Set a 2-second delay in taking the photo from when you tap the shutter button or press the camera key.

5 sec.

Set a 5-second delay in taking the photo from when you tap the shutter button or press the camera key.

10 sec.

Set a 10-second delay in taking the photo from when you tap the shutter button or press the camera key.

## ISO

The ISO sensitivity can be set to adjust automatically, or can be manually adjusted to sensitivity settings ranging from 100 to 1600.

## White Balance and Exposure

White balance, which is only available in Manual capturing mode, adjusts the color balance according to the lighting conditions. You can also adjust the exposure manually in the -2.0 EV to +2.0 EV range. For example, you can increase the image brightness or decrease the overall exposure by tapping the plus or minus controls accordingly when  is displayed.

White balance  Incandescent

Adjust the color balance for warm lighting conditions, such as under light bulbs.

 Fluorescent

Adjust the color balance for fluorescent lighting.

 Auto

Adjust the color balance automatically.

 Daylight

Adjust the color balance for sunny outdoor conditions.

 Cloudy

Adjust the color balance for a cloudy sky.

## Video camera settings

### To Adjust the Video Camera Settings

- 1 Activate the camera.
- 2 Tap , and then select .
- 3 To display settings, tap .
- 4 Select the setting you want to adjust, then make your changes.

# LISTENING TO FM RADIO

You can listen to FM radio stations in the FM Radio application.

## TUNING THE FM RADIO

Firstly, connect the headset to the audio jack before opening the application. Then tap  > FM Radio . Choose from the following options:

- To manually tune to a frequency, tap  or .  
- To scan the radio stations automatically, tap  > Scan, and select your preferred topic from the list. As the stations are scanned, tap STOP to select a channel.
- To view all the available channels, tap  > All Channels.
- To add the current radio station to the favourites bar at the bottom of the screen, tap and hold +
- To mute the FM radio, tap . Then tap  to resume.
- To enable the speaker, tap . To disable the speaker, tap .
- To turn off the radio, tap  or simply disconnect your headset.

25

## RECORDING THE FM RADIO

To start recording the radio, you can either:

- Tap .
- Or, tap  > Start Recording.

To stop recording the radio, you can either:

- Tap .
- Or, tap  > Stop Recording.

## SYNCHRONISING INFORMATION

Some applications (for example, Gmail) on your Cat S31 provide access to the same information that you can add, view, and edit on a PC. If you add, change, or delete information in any of these applications on the PC, the updated information will also appear on your device.

This is made possible through over-the-air synchronisation, however, the process will not interfere with the device. When your device is synchronising, a data synchronisation icon will be shown in the notification bar.

### MANAGING ACCOUNTS

Contacts, email, and other information on your device can be synchronised with multiple Google accounts or other accounts, depending on the applications you have installed.

For example, adding a personal Google account can ensure that your personal email, contacts, and calendar entries are always available. You can also add a work account so that your work-related emails, contacts and calendar entries are kept separate.

### ADDING AN ACCOUNT

1. Tap  > Settings .
2. Tap Accounts > Add account. The screen will display the synchronisation settings and a list of your current accounts.

#### NOTE:

- In some cases, account details may need to be obtained from your network administrator support. For example, you may need to know the account's domain or server address.
3. Tap the account type to add your account.
  4. Follow the on-screen instructions to enter information about your account. Most accounts require a username and password, but the details depend on the kind of account and the configuration of the service it is connecting to.
  5. When you are finished, your account will be added to the list in the Accounts settings screen.

### REMOVING AN ACCOUNT

An account can be removed and all information associated with it removed from your device, including email, contacts, settings, and so on. Some accounts however, cannot be removed, such as the first account you signed into on your device. If you attempt to remove certain accounts, be aware that all the personal information associated with it will be deleted.

1. On the Accounts settings screen, tap the account type.
2. Tap the account you want to delete.
3. Tap  > Remove account.
4. Tap Remove account to confirm.

## CUSTOMISING ACCOUNT SYNCHRONISATION

Background data use and synchronisation options can be configured for all the applications on your device. You can also configure the kind of data synchronised for each account. Some applications, such as Contacts and Gmail, can synchronise data from multiple applications.

Synchronising is two-directional for some accounts and changes made to the information on your device are made to the copy of that information on the web. Some accounts support only one-way synchronisation and the information on your device is read-only.

## CHANGING AN ACCOUNT'S SYNCHRONISATION SETTINGS

1. On the Accounts settings screen, tap the account type.
2. Tap an account to change its synchronisation settings. The data and synchronisation screen will open, displaying a list of information that the account can synchronise.
3. To enable certain items to sync, slide the respective data switch to the right . To disable the data from syncing automatically, slide the respective data switch to the left .

# USING OTHER APPLICATIONS

## USING THE CALENDAR

Use Calendar to create and manage events, meetings, and appointments. Depending on the synchronisation settings, the calendar on the device remains synchronised with the calendar on the web.

## OPENING THE CALENDAR

Tap  > Calendar  to open the application. Tap  to display the various view and settings options.

## CREATING AN EVENT

1. On any calendar view, tap  > Event, to start adding an event.
2. Enter the event title, location, or the contacts.
  - If there is a time frame for your event, tap the beginning and end date.
  - If it is a special occasion such as a birthday or a day-long event, slide the All-day switch to the right .
3. Set the time of the event reminder, invite people, set a colour, and add any notes or attachments.
4. After you have entered all the information for your event, tap Save.

## SETTING AN EVENT REMINDER

1. On any calendar view, tap an event to view its details.
2. Tap  to start editing the event.
3. Tap the reminder section  to set a reminder for your event.

### NOTE:

- Tap No notification to delete the reminder for your event.
4. Tap Save to save your modifications.

## USING THE ALARM

You can set a new alarm or modify an existing alarm.

## OPENING THE ALARM

Tap  > Clock  >  to use your alarm.

## ADDING AN ALARM

1. On the alarm list screen, tap  to add an alarm.
2. To set your alarm, do the following:
  - Set the hour and minutes by navigating around the dial and tap OK.
  - To set repeat mode, check the Repeat check box. Tap one or more options.
  - To set a ringtone, tap  and select an option.
  - If you want your device to vibrate when the alarm sounds, tap the Vibrate check box.
  - To add an alarm label, tap Label. Enter the label, then tap OK.

**NOTE:**

- By default, the alarm is automatically activated.

## CALCULATOR

Your Cat S31 is equipped with a calculator that has both a standard and advanced mode.

### OPENING THE CALCULATOR

Tap  > Calculator  to open the application.

- Turn your device into landscape mode to access the advanced calculator mode.
- Ensure that Auto-rotate is enabled (see: Setting the display).

## MANAGING THE DEVICE

To configure your device, tap  > Settings .

### SETTING THE DATE AND TIME

When you first turn on your device, there is an option to update the date and time automatically, by using the time provided by your network.

**NOTE:**

- You cannot set the date, time, and time zone manually if you are using the automatic option.

To manually adjust the date and time settings, do the following:

1. On the Settings screen, tap Date & Time.
2. Set the Automatic date & time setting to Off.
3. Slide the Automatic time zone switch to the left .
4. Tap Set date. Then type the date and tap OK when the configuration is complete.
5. Tap Set time. On the set time screen, tap the hour or minute field and navigate around the dial to set the time. Tap OK when the configuration is complete.
6. Tap Select time zone, and then select your time zone from the list.
7. Enable or disable the Use 24-hour format function to switch between 24-hour format and 12-hour format.

### PERSONALISING THE DISPLAY

#### ADJUSTING THE SCREEN BRIGHTNESS

1. On the Settings screen, tap Display > Brightness level.
2. Drag the slider left to make the screen darker, or right to make it brighter.
3. When you lift your finger off the slider, your settings will be saved automatically.

#### ADAPTIVE BRIGHTNESS

To automatically fit your screen's brightness to the light around you, use Adaptive brightness. Tap  > Settings  > Display, then slide the Adaptive brightness switch to the right . You can adjust your brightness level while Adaptive brightness is on.

## AUTO-ROTATE SCREEN

To enable your display to rotate when you turn your device between landscape and portrait, tap Display> When device is rotated> Rotate the contents of the screen.

## ADJUSTING THE TIME BEFORE THE SCREEN TURNS OFF

If your device is idle for a period, the screen will turn off to save battery power. You can set a longer or shorter idle time by doing the following:

1. On the Settings screen, tap Display > Sleep.
2. Select the duration you want your screen to be illuminated for before it turns off.

## USING THE GLOVE MODE

The capacitive touch screen can be optimised for use with gloves on. When glove mode is on the screen is more sensitive to respond to the touches made with gloves on. Switch mode off when not wearing gloves to avoid accidental activations.

### TO ENABLE THE GLOVE MODE:

1. On the Settings screen, tap Display >Glove Mode.
2. Slide the Glove Mode switch to the right .

## SETTING DEVICE RINGTONE

### ADJUSTING THE RINGTONE VOLUME

You can adjust the ringtone volume from the Home screen or from any application (except during a call or when you're playing music or watching videos). Press the Volume up/down key to adjust the ringtone volume to your desired level. The ringtone volume can also be adjusted on the Settings screen.

1. On the Settings screen, tap Sound.
2. In Ring volume, drag the slider to adjust the volume level.

### CHANGING THE RINGTONE

1. On the Settings screen, tap Sound.
2. Tap Phone ringtone.
3. Select your desired ringtone. A preview of the ringtone will play when you select it.
4. Tap OK.

### SETTING THE DEVICE TO VIBRATE FOR INCOMING CALLS

On the Settings screen, tap Sound, and slide the Also vibrate for calls switch to the right .

## CONFIGURING THE PROGRAMMABLE KEY

You can assign the Programmable key to perform various essential and useful functions, in some circumstances while the screen is locked. See page 7.

1. On the Settings screen, tap Programmable key.
2. Select an available function to assign to the key:
  - Push To Talk: Slide the PTT mode switch to the right .
3. Select the button pressing method:
  - Short press – multiple options including launch a Google search browser, the flashlight or manage incoming calls.
  - Long Press – multiple options including wake device, launch a Google search browser, the flashlight or manage incoming calls.

## SETTING PHONE SERVICES

### TURNING ON DATA ROAMING

1. On the Settings screen, tap Network&Internet > Mobile networks.
2. Slide the Data roaming switch to the right .

#### NOTE:

- Remember that accessing data services while roaming may incur considerable additional charges. Check with your network service provider about data roaming fees.

### DISABLE DATA SERVICE

On the Settings screen, tap Data usage and slide the Cellular data switch to the left .

## PROTECTING THE DEVICE

### PROTECTING THE DEVICE WITH A SCREEN LOCK

To keep the data on your Cat S31 more secure you can use a screen lock method.

On the Settings screen, tap Screen lock or tap Security > Screen lock.

1. Select one of the available screen lock methods to unlock your device:
  - Swipe: Swipe the lock icon to unlock the screen.
  - Pattern: Trace the correct unlock pattern to unlock the screen.
  - PIN: Enter a PIN number to unlock the screen.
  - Password: Enter a password to unlock the screen.
2. Follow the on-screen instructions to complete your chosen screen lock method.

## MANAGING APPLICATIONS

### REMOVING AN INSTALLED APPLICATION

1. On the Settings screen, tap Apps.



2. Tap an application, and then tap Uninstall>OK to remove the application from your device.

**NOTE:**

- You cannot delete pre-installed applications.

## RESETTING THE DEVICE

### BACKING UP PERSONAL SETTINGS

Your personal settings can be backed up to Google servers with a Google account. If you replace your device, the backed-up settings will be transferred onto a new device the first time it is signed into from a Google account.

1. On the Settings screen, tap Backup & reset.
2. Tap Back up my data. Then slide the Back up my data switch to the right .

### RESTORING FACTORY DATA

If you restore the factory data, your device will reset to the settings that were configured at the factory. All of your personal data from the internal device storage, including account information, the system and application settings, and any downloaded applications will be erased. Resetting your device does not erase any system software updates that have been downloaded or any files on a microSD card, such as music or photos.

1. On the Settings screen, tap System > reset options > Factory data reset.
2. When prompted, tap Reset phone, and then tap Erase Everything. Your device will reset its settings to the original factory settings, and then restart.

## VIEWING THE E-LABEL

To view the regulatory information on this device, do the following:

1. From the Home screen, tap  > Settings .
2. On the Settings screen, tap About phone > Regulatory information.

# APPENDIX

## WARNINGS AND PRECAUTIONS

This section contains important information relating to the operating instructions for this device. It also contains information about how to use the device safely. Read this information carefully before using the device.

### WATERPROOF CASING

USB and Headset jack covers must be securely in place, to ensure the device is waterproof.

### ELECTRONIC DEVICE

Power off this device if you're in a situation where using the device is prohibited. Do not use your device if it could cause damage or interference with electronic devices.

### MEDICAL DEVICE

Follow rules and regulations set forth by hospitals and health care facilities. Do not use this device when it is prohibited.

Pacemaker manufacturers recommend that a minimum distance of 15 cm be maintained between a device and a pacemaker to prevent potential interference with the pacemaker. If you have a pacemaker, use the device on the opposite side of the pacemaker and do not carry the device in your front pocket.

### POTENTIALLY EXPLOSIVE ATMOSPHERE

Power off the device in any area with a potentially explosive atmosphere, and comply with all signs and instructions. Areas that may have potentially explosive atmospheres include the areas where it is advised to turn off a vehicle engine. Triggering of sparks in such areas could cause an explosion or a fire, resulting in bodily injuries or even death. Do not turn on the device at refuelling points such as service stations. Comply with restrictions on the use of radio equipment in fuel depots, storage, and distribution areas, and chemical plants. In addition, adhere to restrictions in areas where blasting operations are in progress. Before using your device, watch out for areas that have potentially explosive atmospheres that are often, but not always, clearly marked. Such locations include areas below the deck on boats, chemical transfer or storage facilities, and areas where the air contains chemicals or particles such as grain, dust, or metal powders. Ask the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) whether this device can be safely used in their vicinity.

### TRAFFIC SECURITY

- Observe local laws and regulations while using this device. In addition, if you need to use the device while driving a vehicle, comply with the following guidelines:
- Concentrate on driving. The first responsibility is to drive safely.
- Do not talk on your device while driving. Use hands-free accessories.
- To make or answer a call, park the vehicle at the road side before using the device.
- RF signals may affect the electronic systems of motor vehicles. For more information, consult the vehicle manufacturer.
- In a motor vehicle, do not place the device over the air bag or in the air bag deployment area.
- If the air bag was to inflate, the strong force with your device on top could cause serious injury.
- If travelling by aircraft, turn your device to Airplane mode. Using wireless devices in an aircraft may cause danger to the operation of the aircraft and disrupt the wireless telephone network. It may also be considered illegal.

## OPERATING ENVIRONMENT

- Do not use or charge this device in dusty, damp, and dirty places or places with magnetic fields. Otherwise, it may result in a malfunction of the circuit.
- The device complies with the RF specifications when the device is used near your ear or at a distance of 1.0 cm from the your body. Ensure that the device accessories such as a device case and a device holster are not composed of metal components. Keep the device 1.0 cm away from your body to meet the requirement earlier mentioned.
- On a stormy day with thunder, do not use the device when it is being charged to prevent any danger caused by lightning.
- When on a call, do not touch the antenna. Touching the antenna affects the call quality and results in increasing the power consumption. As a result, the talk time and the standby time are reduced.
- Whilst using the device, observe the local laws and regulations, and respect others' privacy and legal rights.
- Keep the ambient temperature between 0°C and 40°C while the device is being charged. Keep the ambient temperature between -25°C to 55°C for using the device powered by a battery.

## PREVENTION OF HEARING DAMAGE

Using a headset at high volume can damage your hearing. To reduce the risk of damage to hearing, lower the headset volume to a safe and comfortable level.

## SAFETY OF CHILDREN

Comply with all precautions regarding children's safety. Letting a child play with this device or its accessories, which may include parts that can be detached from the device, may be dangerous, as it may present a choking hazard. Ensure that small children are kept away from the device and its accessories.

## ACCESSORIES

Choose only batteries, chargers, and accessories approved for use with this model by the device manufacturer. The use of any other type of charger or accessory may invalidate any warranty for the device, may be in violation of local rules or laws, and may be dangerous. Please contact your device retailer for information about the availability of approved batteries, chargers, and accessories in the area.

## BATTERY AND CHARGER

- Unplug the charger from the electrical plug and the device when not in use.
- The battery can be charged and discharged hundreds of times before it eventually wears out.
- Use the AC power supply defined in the specifications of the charger. An improper power voltage may cause a fire or a malfunction of the charger.
- If battery electrolyte leaks out, ensure that the electrolyte does not tap skin and eyes. If the electrolyte tapes skin or splashes into eyes, wash eyes with clean water immediately and consult a doctor.
- If there is a case of battery deformation, colour change, or abnormal heating while charging, stop using the device immediately. Otherwise, it may lead to battery leakage, overheating, explosion, or fire.
- If the USB power cable is damaged (for example, the cord is exposed or broken), or the plug loosens, stop using the cable at once. Otherwise, it may lead to an electric shock, a short circuit of the charger, or a fire.
- Do not dispose of this device in fire as it may explode. Batteries may also explode if damaged.

- Do not, modify or remanufacture the device; attempt to insert foreign objects into the device; immerse or expose the device to water or other liquids; expose the device to fire, explosion or other hazards.
- Avoid dropping the device. If the device is dropped, especially on a hard surface, and you suspect damage, take it to a qualified service centre for inspection. Improper use may result in a fire, explosion or other hazard.
- Promptly dispose of used devices in accordance with local regulations.
- The device should only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- When charging, ensure the charger is plugged into an AC mains plug that is in close proximity to the device. The charger must be easy to access.
- The USB power cable is considered as a separate device to the charging adapter.
- Output rating of charger 5V/3A , 9V/2A , 12V/1.5A

**CAUTION – RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

## **CLEANING AND MAINTENANCE**

- The charger is not water-resistant. Keep it dry. Protect the charger from water or vapour. Do not touch the charger with wet hands, otherwise it may lead to a short circuit, a malfunction of the device and may cause you an electric shock.
- Do not place your device and charger in places where they can get damaged by impact. Otherwise, it may lead to battery leakage, device malfunction, overheating, fire, or explosion.
- Do not place magnetic storage media such as magnetic cards and floppy disks near the device.
- Radiation from the device may erase the information stored on them.
- Do not leave this device and charger in a place with an extreme high or low temperature. Otherwise, they may not function properly and may lead to a fire or an explosion. When the temperature is lower than 0°C, performance of the battery will be affected.
- Do not place sharp metal objects such as pins near the earpiece. The earpiece may attract these objects and hurt you.
- Before cleaning or maintaining this device, power it off and disconnect from the charger.
- Do not use any chemical detergent, powder, or other chemical agents (such as alcohol and benzene) to clean the device and the charger. Otherwise, parts of the device may be damaged or a fire can be caused. The device can be cleaned with a soft antistatic cloth.
- Do not dismantle the device or accessories. Otherwise, the warranty on the device and accessories is invalid and the manufacturer is not liable to pay for the damage.
- If the device screen is broken by colliding with hard objects, do not touch or try to remove the broken part. In this case, stop using the device immediately, and contact an authorised service centre.

## **HEARING AID COMPATIBILITY (HAC)**

## **REGULATIONS FOR WIRELESS DEVICES**

This device has been tested and rated for use with hearing aids, with some of the wireless technologies that it uses. However, there may be newer wireless technologies used in the device that have not been tested yet for use with hearing

aids. It is important to try the different features on your device thoroughly and in different locations whilst using a hearing aid or cochlear implant to determine if there is any interfering noise. Consult your service provider or the device manufacturer for information on hearing aid compatibility. If you have any questions about return or exchange policies, consult your service provider or phone retailer.

- The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other hearing assistive devices.
- The wireless telephone industry has developed a rating system to assist hearing device users, reviewing the compatibility of mobile devices with hearing devices.
- The ratings are not guaranteed. Results will vary depending on the user's hearing device and hearing loss. If a user's hearing devices happens to be vulnerable to interference, the user may not be able to use a rated phone device successfully. Testing the mobile device with a hearing device is the best way to evaluate it if it suitable for a user's personal needs.
- The FCC has adopted HAC rules for digital wireless phones. These rules require certain devices to be tested and rated under the American National Standard Institute (ANSI) C63.19-2011 hearing aid compatibility standards. The ANSI standard for hearing aid compatibility contains two types of ratings:
- M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labelled. M4 is the better/higher of the two ratings.
- T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to work better with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated phones. T4 is the better/ higher of the two ratings. (Note not all hearing devices have telecoils in them.) The tested M-Rating and T-Rating for this device (FCC ID: ZL5S48C), M3 and T3.

## **EMERGENCY CALL**

This device can be used for emergency calls in the service area. The connection, however, cannot be guaranteed in all conditions. The device should not be relied on solely for essential communications.

## **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.
- The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **NOTE:**

- The country code selection is for a non-US model only and is not available to all US models. Per FCC regulation, all WiFi products marketed in the US must be fixed to US operation channels only.
- The device 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 radio frequency 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 during an installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are 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 your retailer or an experienced radio/TV technician for help.
- Changes or modifications not specifically approved by the party responsible for compliance could void the your authority to operate the equipment.

# RF EXPOSURE INFORMATION (SAR)

- Your Cat S48c meets the government's requirements for exposure to radio waves.
- The device is designed and manufactured to not exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.
- For body worn operation, your device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.
- The SAR limit set by the FCC is 1.6 W/kg.

The highest reported SAR values under the FCC regulatory for the phone are listed below:

Head SAR: 0.98 W/kg, Body SAR: 1.06 W/kg, Wireless Router SAR: 1.19 W/kg

# DISPOSAL AND RECYCLING INFORMATION



This symbol on the device (and any included batteries) indicates that they should not be disposed of as normal household garbage. Do not dispose of the device or batteries as unsorted municipal waste. The device (and any batteries) should be handed over to a certified collection point for recycling or proper disposal at the end of their life.

For more detailed information about the recycling of the device or batteries, contact your local city office, the household waste disposal service, or the retail store where you purchased this device.

The disposal of the device is subject to the Waste from Electrical and Electronic Equipment (WEEE) directive of the European Union. The reason for separating WEEE and batteries from other waste is to minimise the potential environmental impacts on human health from any of the hazardous substances that may be present.

## REDUCTION OF HAZARDOUS SUBSTANCES

This device is compliant with the EU Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (Regulation No 1907/2006/EC of the European Parliament and of the Council) and the EU Restriction of Hazardous Substances (RoHS) Directive (Directive 2011/65/EU of the European Parliament and of the Council). For more information about the REACH compliance of the device, visit the Web site [www.catphones.com/certification](http://www.catphones.com/certification). It is recommended to visit the Web site regularly for up-to-date information.

Google, Android, Google Play and other marks are trademarks of Google LLC



2017 Caterpillar. All Rights Reserved. CATCATERPILLARBUILT FOR ITtheir respective logos"CaterpillarYellow"the  
"Power Edge" trade dress as well as corporate and product identity used herein are trademarks of Caterpillar and may not  
be used without permission.

Bullitt Mobile Ltd is a licensee of Caterpillar Inc.

---