# Index

1. APPLICATION RANGE ............................................. 1
2. REFERRED STANDARD ........................................... 1
3. PRODUCT FEATURES ............................................. 1
4. SPECIFICATION .................................................. 1
5. BUTTON FEATURES ............................................... 3
6. OPERATION ....................................................... 4
   6.1 POWER ON/OFF OPERATION .................................. 4
   6.2 KNOW ABOUT CONSOLE MENU ............................... 4
   6.3 SETTING ...................................................... 5
   6.3.1 GPS WORKING CONDITION: ............................... 5
   6.3.2 LANGUAGE CHOOSING: .................................... 5
   6.3.3 BACKLIGHT SETTING: ..................................... 7
   6.3.4 VOLUME ADJUSTMENT: ................................... 7
   6.3.5 TIME SET: .................................................. 8
   6.3.6 SYSTEM INFORMATION: .................................. 8
   6.3.7 RUN NAVIGATION FIRMWARE: ............................. 9
   6.4 SCREEN CALIBRATION ........................................ 10
   6.5 AUDIO PLAYING OPERATION .................................. 12
   6.6 E-BOOK OPERATION .......................................... 14
   6.7 PHOTO SKIMMING OPERATION .................................. 15
   6.8 VIDEO PLAYING INTERFACE & OPERATION ................. 17
   6.9 FM TRANSMITTER .............................................. 20
   6.10 BLUETOOTH (OPTIONAL) ................................... 20
   6.11 INDICATORS .................................................. 25
   6.12 KEYS FUNCTION .............................................. 25
# Index

1. APPLICATION RANGE ............................................................................. 1
2. REFERRED STANDARD ........................................................................... 1
3. PRODUCT FEATURES ............................................................................. 1
4. SPECIFICATION ..................................................................................... 1
5. BUTTON FEATURES ............................................................................... 3
6. OPERATION ............................................................................................. 4
   6.1 POWER ON/OFF OPERATION ............................................................. 4
   6.2 KNOW ABOUT CONSOLE MENU ....................................................... 4
   6.3 SETTING ............................................................................................ 5
   6.3.1 GPS WORKING CONDITION ....................................................... 5
   6.3.2 LANGUAGE CHOOSING ............................................................... 6
   6.3.3 BACKLIGHT SETTING ................................................................. 7
   6.3.4 VOLUME ADJUSTMENT ............................................................... 7
   6.3.5 TIME SET ..................................................................................... 8
   6.3.6 SYSTEM INFORMATION ............................................................. 8
   6.3.7 RUN NAVIGATION FIRMWARE ................................................... 9
   6.4 SCREEN CALIBRATION ..................................................................... 10
   6.5 AUDIO PLAYING OPERATION .......................................................... 12
   6.6 E-BOOK OPERATION ....................................................................... 14
   6.7 PHOTO SKIMMING OPERATION ...................................................... 15
   6.8 VIDEO PLAYING INTERFACE & OPERATION ................................... 17
   6.9 FM TRANSMITTER ......................................................................... 20
   6.10 BLUETOOTH (OPTIONAL) ............................................................ 20
   6.11 INDICATORS ................................................................................. 25
   6.12 KEYS FUNCTION ........................................................................... 25
1. Application range
- The tested standard can only be suitable for this product
- The tested standard refers to the Spec, examination method and operating introduction of this product.

2. Referred standard
- Navigation firmware operating standard

3. Product features
- 7 inch TFT high resolution 800*480
- Stereo earphone, built-in high quality 1.0 W speaker, and the volume is adjustable
- With both button and touch screen
- Built-in high sensitive GPS module
- With built-in GPS antenna
- The navigating firmware in the SD card can be run directly (supports 4 bit middle and high speed SD card)
- FM transmitter
- Support auto back camera and CVBS input, support PAL/NTSC
- Audio playing format: WMA, MP3, MPC and WAV
- Video playing format: ASF, AVI, MP4, WMV, MPG, DAT, MPEG, 3GP
- Photo format: BMP, JPG, PNG, GIF
- Text format: TXT
- USB Device 2.0
- Indicator: red light on when in charging condition, green on when charged full

4. Specification

<table>
<thead>
<tr>
<th>CPU</th>
<th>SAMSUNG S3C2443X-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory Size</td>
<td>128MBytes</td>
</tr>
<tr>
<td>SDRAM</td>
<td>64MB</td>
</tr>
<tr>
<td>Displaying Screen</td>
<td>7 inch TFT high resolution 800*480</td>
</tr>
<tr>
<td>USB</td>
<td>USB Client 2.0, MINI USB 5PIN socket</td>
</tr>
<tr>
<td>SD</td>
<td>SD / MMC socket, MAX SD card up to 4GB</td>
</tr>
<tr>
<td>Audio</td>
<td>A: Built-in 1W/ 8 ohm</td>
</tr>
<tr>
<td>FM</td>
<td>FM transmitter</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Built-in bluetooth BC03 module</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GPS</th>
<th>Cold boot time: &lt;35 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cool boot time: &lt;2 seconds (in the open air)</td>
</tr>
<tr>
<td></td>
<td>Warm boot time: &lt;32 seconds</td>
</tr>
<tr>
<td>Battery</td>
<td>Built-in 1500mAh.</td>
</tr>
<tr>
<td>Charging socket</td>
<td>12V DC socket</td>
</tr>
<tr>
<td>Home Charger</td>
<td>100/220V, 12V / 1.5A</td>
</tr>
<tr>
<td>Car Charger</td>
<td>12V / 1.5A</td>
</tr>
<tr>
<td>LED illustration</td>
<td>In charging (red LED on, green LED off)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Full charged (red LED off, green LED off)</td>
</tr>
<tr>
<td>Operation temperature</td>
<td>-10 °C to 60 °C</td>
</tr>
<tr>
<td>Saving temperature: 0 °C to 60 °C</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>21mm<em>120mm</em>184mm</td>
</tr>
<tr>
<td>System</td>
<td>Microsoft Windows CE 5.0</td>
</tr>
<tr>
<td>Navigation software storage</td>
<td>SD card</td>
</tr>
<tr>
<td>Video playing software</td>
<td>Support ASF, AVI, MP4, WMV, MPG, DAT, MPEG, 3GP</td>
</tr>
<tr>
<td>Audio playing software</td>
<td>Support WMA9, MP3 and WAV format</td>
</tr>
<tr>
<td>Photo format</td>
<td>Support JPG, GIF, BMP, PNG format</td>
</tr>
<tr>
<td>E-book</td>
<td>Support TXT format</td>
</tr>
<tr>
<td>Software upgrading</td>
<td>Via SD card</td>
</tr>
<tr>
<td>Process upgrading</td>
<td>Via SD card</td>
</tr>
</tbody>
</table>
5. Button Features

<table>
<thead>
<tr>
<th></th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Displaying screen</td>
</tr>
<tr>
<td>2</td>
<td>Indicator</td>
</tr>
<tr>
<td>3</td>
<td>MINI USB</td>
</tr>
<tr>
<td>4</td>
<td>RESET</td>
</tr>
<tr>
<td>5</td>
<td>Earphone socket</td>
</tr>
<tr>
<td>6</td>
<td>SD/MMC slot</td>
</tr>
<tr>
<td>7</td>
<td>Power</td>
</tr>
<tr>
<td>8</td>
<td>MIC hole</td>
</tr>
<tr>
<td>9</td>
<td>Keystroke (MENU)</td>
</tr>
<tr>
<td>10</td>
<td>Speaker</td>
</tr>
<tr>
<td>11</td>
<td>Styles</td>
</tr>
<tr>
<td>12</td>
<td>Digital TV Antenna(optional)</td>
</tr>
<tr>
<td>13</td>
<td>AV IN</td>
</tr>
<tr>
<td>14</td>
<td>SIM card slot</td>
</tr>
<tr>
<td>15</td>
<td>Hold keystroke</td>
</tr>
<tr>
<td>16</td>
<td>DC 12V power socket</td>
</tr>
</tbody>
</table>

*The menu button on the top of the device can be used to switch to main menu from any screen.
* If the system doesn't work, use styles to push the "reset" hole on left hand side of the device.
[Important] The unsaved data will be lost when you reset the system.

6. Operation

6.1 Power on/off operation

- Press and hold "POWER" for 3 seconds or more

- System will enter the menu interface after approximately 6S as following:

Press "POWER" under standby to make the unit SLEEP (power saving mode), press again, system will be back to normal mode in 1S.
Press and hold "POWER" for 3 seconds or more, system will be off automatically.

6.2 Know about Console menu

- navigation: Tap to enter navigation interface
- music: Tap to enter music playing interface
### 6.3 Setting

#### 6.3.1 GPS working condition:

- Under the setup interface, enter into below interface:

- Tap GPS Monitor to enter the menu illustration interface, as the following:

1. Tap GPS Monitor to reset GPS satellite information;
2. Put device under GPS101 or public space to test signals degree:

- Tap to return to monitor interface after information got.

**Remark:** you need test the GPS monitor at the open air, or there will be no signal can be received.

#### 6.3.2 Language choosing:

- Under the setting menu, tap \[ \text{Language} \] and \[ \text{Language} \] to choose any language you want.
6.3.3 Backlight setting:

Select your preferred language, and tap "*, #" to return to system setup interface.

6.3.4 Volume adjustment:

6.3.5 Time Set:

Under the system setting interface, tap "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "A", "B", "C", "D", "E", "F" to enter the time setting interface.

6.3.6 System Information:

You may set the relative clock which needed to be adjusted. Tap up and down keys to set the time and date, tap "0" to exit to the system setup interface.
6.3.7 Run navigation firmware:

- Under the system setting interface, tap [ ] to enter below interface:

- Under the navigation path which you installed the map software, you may choose "Navigation AutoRun at Power on":

6.4 Screen calibration

- Choose an "exe" file and tap [ ] to return to the previous interface, double click [ ] to enter the navigation interface. Detailed operations for navigation please refer to the NAVIGATION SOFTWARE MANUAL.
6.5 Audio playing operation

Before the operation, please copy some files into the SD card. You can also establish some folders to save these files.

Under the main menu to tap:

Tap "" to choose the saving path of audio files:

Select the audio file you want, and tap "" to confirm your choice (you can also double click the file name to confirm it), tap "" to choose all files, and "" to back to the previous interface.

Icon illustration
### 6.6 E-book operation

**Add one more**  
*Add one more file*

**Tap** ![Icon](image) **to enter E-book interface:**

**Tap** ![Icon](image) **to choose the saving path of E-book**

### Audio folder illustration

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shut off</td>
<td>Shut off the current folder</td>
</tr>
<tr>
<td>Delete file</td>
<td>Delete a single file</td>
</tr>
<tr>
<td>Delete the folder</td>
<td>Delete the whole folder</td>
</tr>
<tr>
<td>Return</td>
<td>Return to the previous folder</td>
</tr>
<tr>
<td>Add plenty</td>
<td>Add plenty of files</td>
</tr>
</tbody>
</table>

---

**Add one more**  
*Add one more file*

**Delete plenty**  
*Delete plenty of files*

**Add plenty**  
*Add plenty of files*

**Add one more**  
*Add one more file*

**Exit**  
*Back to the previous*
Pitch on the E-book file you want, tap “
” or double click the file name to confirm your choice, tap “
” to back to the previous interface.

<table>
<thead>
<tr>
<th>E-book</th>
<th>Enter E-book interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open the file</td>
<td>Open a single file</td>
</tr>
<tr>
<td>Shut off</td>
<td>Shut off the current interface</td>
</tr>
<tr>
<td>Open file</td>
<td>Open the saving path of files</td>
</tr>
<tr>
<td>Previous file</td>
<td>Open the previous file</td>
</tr>
<tr>
<td>Next file</td>
<td>Open the next file</td>
</tr>
<tr>
<td>Full screen</td>
<td>View E-book with full screen</td>
</tr>
</tbody>
</table>

6.7 Photo skimming operation

Under the console menu tap “
” to enter photo skimming interface.

Pitch on the photo which you want, tap “
” or double click the file name to confirm your choice, tap “
” to back to the previous interface.

<table>
<thead>
<tr>
<th>Full screen</th>
<th>Full screen display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>Open the photo files</td>
</tr>
<tr>
<td>Open</td>
<td>Open the single file</td>
</tr>
<tr>
<td>Shut off</td>
<td>Shut off the current interface</td>
</tr>
<tr>
<td>Previous</td>
<td>Go to the previous photo</td>
</tr>
<tr>
<td>Next</td>
<td>Go to the next photo</td>
</tr>
<tr>
<td>Zoom out</td>
<td>Zoom out the photo</td>
</tr>
</tbody>
</table>
6.8 Video Playing Interface & operation

Under the console menu, tap "Video" to enter the movie playing interface:

- Tap "\[\]", select files’ saving path, enter the following interface:

Choose the file which you want, tap "\[\]" or double click the file; or tap "\[\]" to return.

Video playing interface:

You can also tap "\[\]", to choose all the files, tap "\[\]", to go back to the video playing interface.
6.9 FM transmitter

Enter into FM setup interface, as below shows:

Tap "\[on\]" to switch to FM transmitter condition, then to achieve FM power on/off function.
Tap "\[transmit\]", "\[receive\]" to change transmitting frequency, pls adjust to blank frequency to avoid local radio stations.

6.10 Bluetooth (optional)

[Note] When bluetooth function is on, pls wait for about 10 second, then tap "pairing" to pair with other bluetooth devices.

Hands free bluetooth function:

Under Console interface, as below shows, tap "\[phone\]" to enter into hands free mode.

Tap "\[\]" to add on files, tap "\[\]" to go back to video playing interface.

Tap "\[\]" or double click to confirm the file; tap "\[\]" to stop the file playing; tap "\[\]", screen can widen the screen interface.

Other functions are as the following:

Tap "\[\]" to switch the speaker off;
Tap "\[\]" to switch the speaker on;
Tap "\[\]" to choose the next item;
Tap "\[\]" to choose the last item;
Tap "\[\]" to exit the interface;
Tap "\[\]" to delete the file you chose;
Tap "\[\]" to delete all files;
Tap "\[\]" to exit the movie playing interface.
Tap "\[\]" to adjust volume, "\[\]" means current volume.
Match with Bluetooth device

Under the Bluetooth interface, tap to do the matching.

It just can be found by others, users should use his own cell phone to search Bluetooth device, and user will be required to input the secret code, default as 1234. The device will remember the matched cell phone forever, as long as Bluetooth of cell phone was on, active the Bluetooth in this device can achieve matching automatically.

Bluetooth Management

Under the Bluetooth interface, tap to check all the devices which had been matched before.
Dialing out

In communication:

- phone number you are dialing
- the communication time
- hang off
- adjust the volume

Picking up status (cell phone has been matched well with this device)

Incoming phone show

- incoming phone show
- hang off
- pick up
- Tap to set PIN code, as below shows:

- to keep the Bluetooth on when GPS in working condition.
- to set the Bluetooth as automatically answer.
- Tap to enter the inputting sub-menu
The GPS navigator is a reliable navigator and also a good pastime partner if you tend and protect it correctly. Please adopt following methods to tend and protect it then the machine can be used for a long time without trouble.

- Screen protection: please use the touch stick to operate for pressing the screen at tilt will break the screen. As clean the screen, you should use the soft cloth sprinkled with a few drops of glass cleaner but not spray the cleaner to the screen directly.

- [Important] Please do remember to close the GPS navigator before cleaning the screen.

- Avoid dropping: Dropping from the high altitude or strike will damage the precision part such as screen.

- [Important] Accident damage is not in the range of guarantee.

- Avoid using the navigator at the following condition: rapidly changed temperature, high temperature (over 60 deg), low temperature (below 0 deg), high pressure, much dust, static, humidity, and also corrosive liquid.

- Avoid radiation: the radiation from other electric device may influence the screen display. It will be recovered by exclude the radiation.

- [Important] We suggest you to take the gift bag to get the X-ray detection when you need air transport. This can help you avoid magnetic detection and bar magnet detection, which will damage the system data.

- Avoid strong light: Do not expose this machine under strong light or ultraviolet directly; this can help the machine prolong the useful life.

6.11 Indicators

After setting, tap [to exit.

Red indicator means the device is in charging, and it turns to Green when fully charged.

6.12 Keys function

Press "POWER" to enter into Sleeping or Waking condition.
Long press "POWER" to power off the device.