

NoteCam Guide

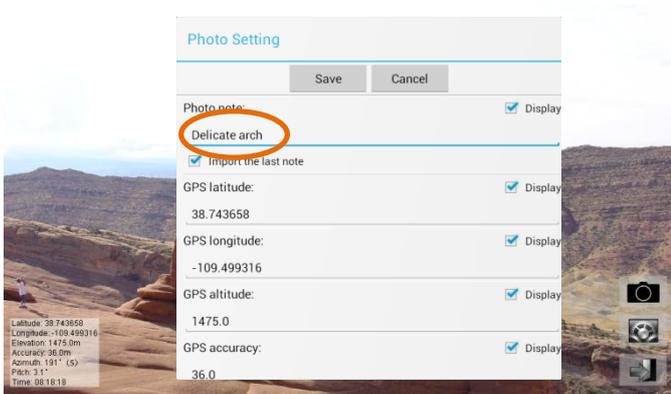


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Quick Start Guide



(1) Open NoteCam, and then click button  to take a picture.



(2) Leave a message, and save it.

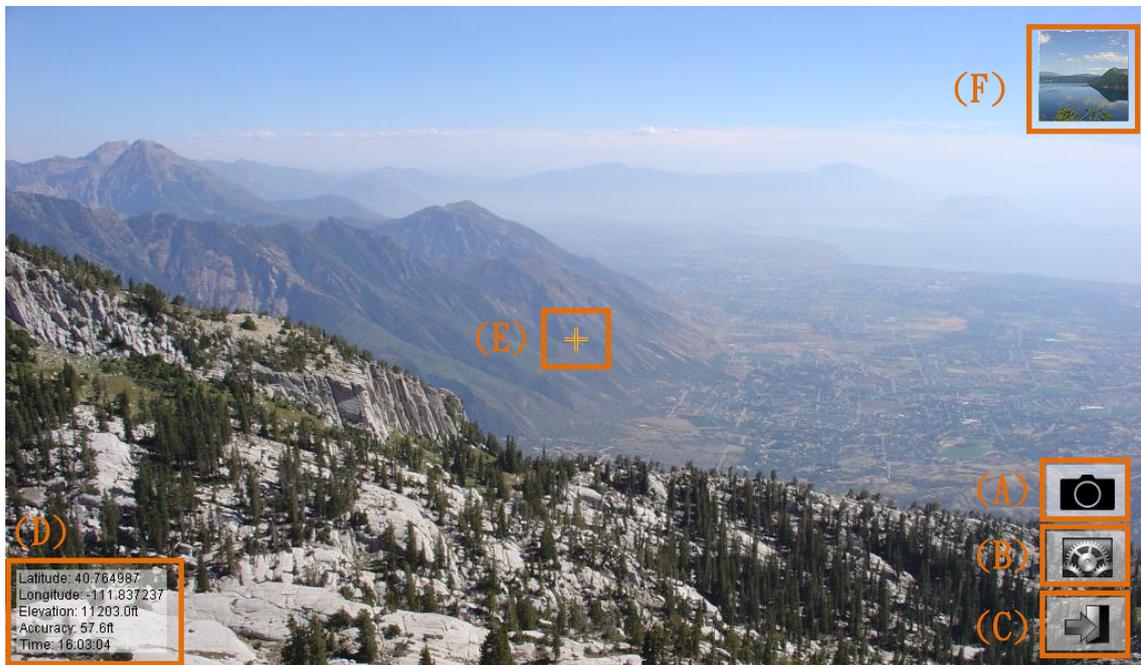


(3) The picture has been saved on your mobile device. The file location is under the primary external storage directory + /DCIM/NoteCam/ directory.

NoteCam Guide

NoteCam is a camera APP combined with GPS information (including latitude, longitude, altitude and accuracy), time, and comments. It can leave a message, and put all information together into a photograph. When you browse the photos, you can quickly know their location and their further information.

(1) Introduction



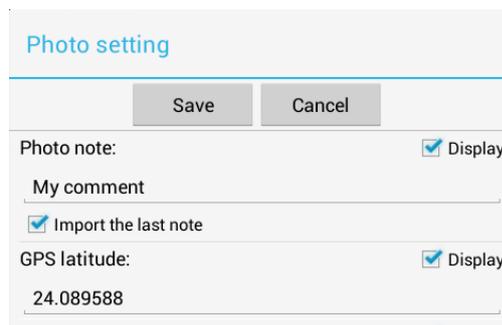
Like other camera applications, you can see a preview screen while opening NoteCam. The lower-left corner of the screen displays

GPS and time information. The lower-right corner has three buttons. They mean “taking a picture,” “setting,” and “exit.”

(A)  Taking a picture

Press this button will take a picture. You can leave a message or modify information while pressing the button. The picture will be saved after pressing “Save” button.

If the checkbox “Import the last note” is toggled on (checked), the last note will be imported when you take next picture.



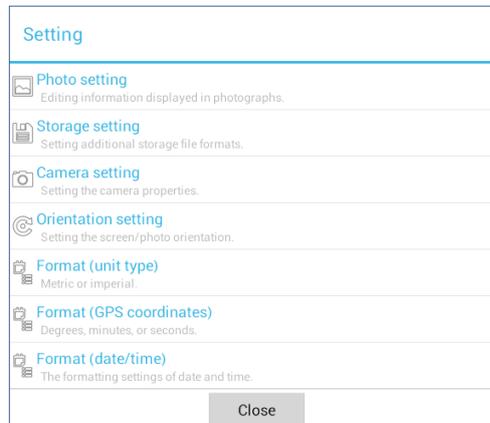
Saved pictures display the information which you’re interested in the lower-left corner. If you don’t want to display some information, you can unchecked the right side checkboxes “Display.” Also, you can modify information if you don’t like it.

In addition, if you do not need to write/modify “photo note” or other information every time, you can check “quick mode” on

setting (discussed in the next section). This function can directly save pictures without a pop-up dialog box.

(B)  Setting

The settings can be divided into two parts. The basic settings include “photo setting,” “camera setting,” “storage setting,” “text setting,” and “orientation setting.” The format settings include “unit type setting,” “GPS coordinates setting,” and “date/time setting.” When you first use this application, we recommend that you adjust the settings.



(i) Photo setting

The photo setting let you edit information which you want to display in photographs. It includes your comment, GPS information, date/time information, etc. The details are described

below.

- Display photo note: Display or hide user note in photographs.
- Display GPS latitude: Display or hide GPS latitude.
- Display GPS longitude: Display or hide GPS longitude.
- Display GPS altitude: Display or hide GPS altitude.
- Display GPS accuracy: Display or hide GPS accuracy.
- Display time: Display or hide date/time information. You can set its format on the “format (date/time).”
- Display central point: Display or hide a central point in photographs.
- Photo size: Set photo resolution. The default value is 2048x1536 pixels. Depends on your mobile device, this value may be smaller. If a resolution shows “(Non-recommended),” it means this photo size is too small or too large.

Attention: Photographs require post processing. If picture

size (number of pixels) is too large, it may cause incomplete pictures. Moreover, the application may be interrupted if the system does not have enough resource.

- Quick mode: “Quick mode” indicates you cannot leave a note while taking a picture, but you can leave a message here.

(ii) Camera setting

The camera setting let you set camera properties. The details are described below.

- Camera ID: Set camera ID such as back-facing camera, front-facing camera, or other cameras.
- Photo size (the same as “photo size” on the “photo setting”): Set photo resolution. The default value is 2048x1536 pixels. Depends on your mobile device, this value may be smaller. If a resolution shows “(Non-recommended),” it means this photo size is too small or too large.

Attention: Photographs require post processing. If picture size (number of pixels) is too large, it may cause incomplete

pictures. Moreover, the application may be interrupted if the system does not have enough resource.

- Flash mode: Sets the flash mode. If you do not choose “off” or “auto,” the mode will set “off” after closing app.
- Quick mode (the same as “quick mode” on the “photo setting”): “Quick mode” indicates you cannot leave a note while taking a picture, but you can leave a message on the “photo setting.”
- Camera shutter sound: Set camera shutter sound. You can uncheck the option to turn off camera sound into silent mode.

Attention: Some mobile devices may not be able to close this sound because of the factory setting.

(iii) Storage setting

When taking pictures, the system saves pictures with information which you're interested. If you want to save other storage file formats, you can set them here.

- Save original file: Save additional files for original pictures.

- **Save text file:** Save additional files for text information.

For more storage information, please see “(2) Storage” section.

(iv) Text setting

The text setting let you set text and background properties.

The details are described below.

- **Text color:** Sets the text color. It includes 17 commonly used colors.
- **Text visibility:** 0% represents invisible (completely transparent). 100% is completely visible.
- **Text style:** It contains normal, bold, italic, and bold italic. Depending on text fonts, some effects may not be displayed.
- **Text font:** It contains the basic fonts available on Android mobile devices. Some fonts may not be displayed if your mobile device manufacturer is not installed.
- **Text size:** The default is 1x size. It is scaled automatically with photo resolution. If you feel that the font is too large or

too small, you can adjust the size. The maximum is 1.5 times. The minimum is 0.5 times.

- **Background color:** Sets the background color. It includes 17 commonly used colors.
- **Background visibility:** 0% means no background (completely transparent). 100% is completely visible (completely opaque).
- **Background width:** We use the appropriate width for most mobile devices as the default background width. However, some mobile devices may be too wide or too narrow. You can use this setting to adjust the width of the background. The default is 1x wide. The maximum is 1.5 times. The minimum is 0.5 times. Basically, this setting is not recommended unless necessary.
- **Background height:** The default is one column note. If you have a lot of columns to show, you can set up multiple columns, up to five columns. If the number of columns you have chosen exceeds the number of columns you have set,

the description of the extra columns will be displayed in the last column. For example, if you set up three-column notes and five-column notes are entered, the fourth and fifth columns are displayed at the end of the third column.

- Using font on the screen: The text setting is primarily for text and background on photos. If you want to see the text and background settings on the camera preview screen for your mobile device, please check this box.

(v) Orientation setting

The orientation setting let you set screen orientation and photo orientation.

- Orientation: Set screen/photo orientation. “Automatic” would detect your device orientation automatically. The advantage is that the system will automatically determine the appropriate photography direction. The disadvantage is that it needs to constantly detect direction. It will affect the performance of use. “Landscape” means the orientation is the horizontal direction. “Portrait” represents the orientation is

the vertical direction. No matter how a mobile device is rotated, the orientation is fixed.

- Forcibly rotating photos: Some mobile devices' photo orientation is wrong. There will be differences of 90 degrees in comment direction and photo direction. Tick the checkbox if your mobile device cannot properly rotate photos. Note that the checkbox should not be checked if your mobile device can properly rotate photos.

Attention: The camera preview screen would be correct. However, it does not mean the orientation of photographs is correct. You can take a vertical picture (portrait), and make sure the photograph is good.

- Help us improve: This option will collect your “forcibly rotating photos” value to our server. The purpose is to assist other users who use the same mobile devices to set the values. Please be assured that it does not collect your personal information.

(vi) Format (unit type)

Set a format of unit types in photographs. The formats include “metric (m, km)” and “imperial (ft, mi).”

(vii) Format (GPS coordinates)

Set a format of GPS coordinates. The formats include “degrees (0.000000°),” “minutes (0° 00.000’),” and “seconds (0°00’00”).”

(viii) Format (date/time)

Set a format of date and time. The formats include “YYYY-MM-DD hh:mm:ss,” “MM-DD-YYYY hh:mm:ss,” “DD-MM-YYYY hh:mm:ss,” “YYYY-MM-DD hh:mm,” “MM-DD-YYYY hh:mm,” “DD-MM-YYYY hh:mm,” “hh:mm:ss,” and “hh:mm.”

[YYYY] indicates a four-digit year, 0000 through 9999.
[MM] indicates a two-digit month of the year, 01 through 12.
[DD] indicates a two-digit day of that month, 01 through 31. [hh] refers to a zero-padded hour between 00 and 23. [mm] refers to a zero-padded minute between 00 and 59. [ss] refers to a zero-padded second between 00 and 59.

(C) ➡ Exit

Exit the application program.

(D) Basic information

Basic information includes GPS information and date/time information. The details are described below.

- **GPS information:** Display users current GPS coordinates information, including latitude, longitude, altitude/elevation, and accuracy. The formatting setting is on “setting” → “format (GPS coordinates).” If the GPS feature does not receive a valid signal, it shows “waiting for a valid GPS signal.” If the GPS feature does not open, it shows “the GPS feature does not open.” The altitude/elevation information may be empty if your device uses Wi-Fi-based positioning system (WPS).
- **Time:** Display the current time. The formatting setting is on “setting” → “format (date/time).”

(E) Central point

The central point let users know where the photo center is. Moreover, you can go to “setting” → “photo setting,” and then set “display central point” checkbox to be checked if you want to display a central point in photographs.

(F) Gallery thumbnail

It is a photo thumbnail. When you click the image button, it will link to your default gallery application.

(2) Storage

After taking pictures, photographs are saved on your mobile device, the primary external storage directory. The directory name is /DCIM/NoteCam/. It contains subdirectories which are composed of present year and present month. The file names are composed of present date and present time.

(A) Normal picture

Pictures include notes and extra information. The format of pictures is [date]_[time].jpg (e.g. 20140101_180003.jpg).

(B) Original picture

Pictures do not include notes or any extra information. The format of pictures is [date]_[time]_Original.jpg (e.g. 20140101_180003_Original.jpg).

It's optional. You can go to “setting” → “storage setting,” and then set “save original file” checkbox to be checked.

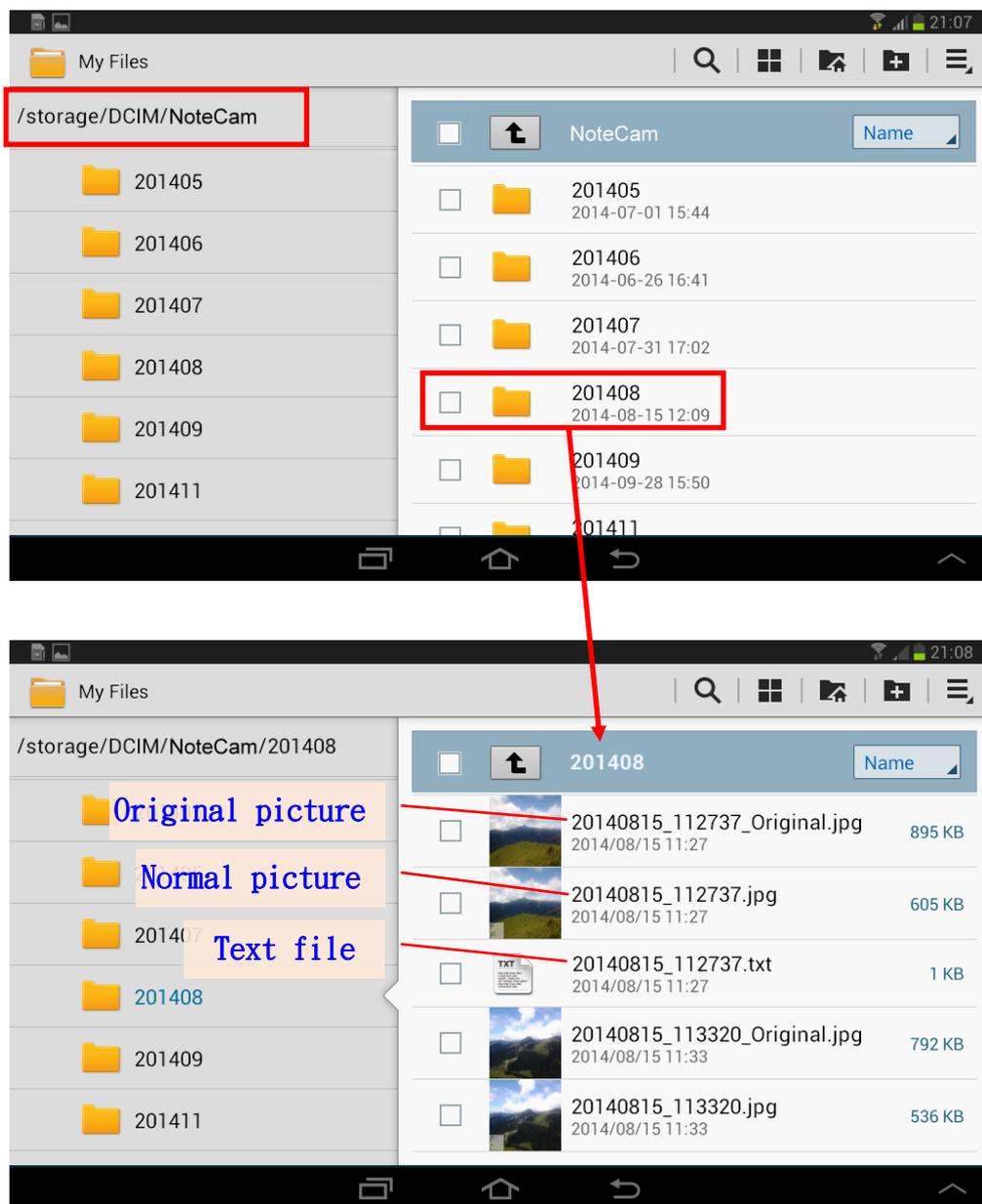
Attention: Due to an extra picture, storage time will be longer.

(C) Text file

Text files include extra information such as user note, GPS

information, date/time, Exif, etc. The format of files is [date]_[time].txt (e.g. 20140101_180003.txt).

It's optional. You can go to “setting” → “storage setting,” and then set “save text file” checkbox to be checked.

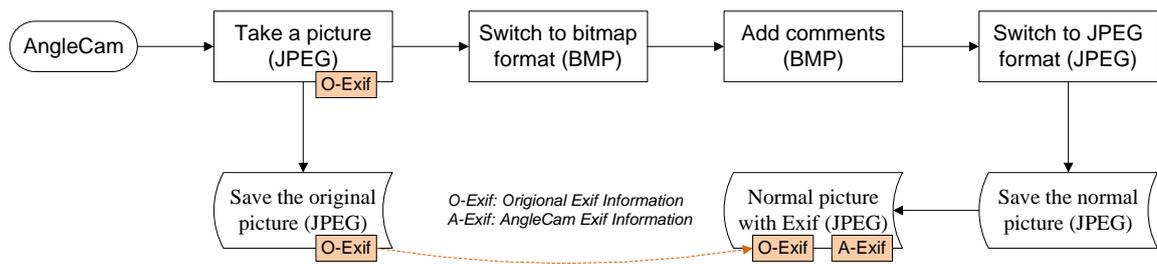


(D) Exif Information

We tried to put whole information into Exif tags. However, due to the restriction of Android API development, NoteCam cannot store Exif tags directly. Normal pictures are processed under the Bitmap format, but Exif tags must be stored under the JPEG format. Hence, if you want to have a more complete Exif information, you must set "save original file." The information of Exif tags is as follows:

(i) With original picture

- Original picture: Include device model information; camera information such as aperture, ISO, and exposure time; and device GPS information.
- Normal picture: Include device model information; camera information such as aperture, ISO, and exposure time; GPS information (It could be user-defined coordinates. However, the GPS coordinates format must be “degrees (0.000000°)”).
- Text file: Include device model information; camera information such as aperture, ISO, and exposure time.



(ii) Without original picture

- Normal picture: Include device model; GPS information (It could be user-defined coordinates. However, the GPS coordinates format must be “degrees (0.000000°)”).
- Text file: Include device model.

(3) Others

1. If you have any comments, questions, or feedback, please contact us.
2. If you have other special requirements, please contact us. We may design a customization app for you.

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