

PhotoAcute Users Guide

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Introduction

PhotoAcute improves the quality of pictures snapped by phone built-in camera by applying set of image processing algorithms.

PhotoAcute is compatible with the following phone models:
SonyEricsson P800, P900, P910,
Nokia 3650, Nokia 3660, Nokia 6600, Nokia 6620, Nokia 6260

This Guide describes the PhotoAcute version for SonyEricsson phones.

Basic Principles

Snapping several images

For achieving the better resolution and sharpness, PhotoAcute snaps several images to produce one photo. Snapping one photo may take a few seconds. The scene should not move during this time.

PhotoAcute is best used for snapping static scenes. When photographing people, ask them to say cheese and freeze for a moment.

If there is a motion during snapping, you still get a large photo from first snapped image, with corrected geometry and brightness, enlarged with advanced zoom algorithm to 1280x960.

Processing images

Unlike the usual camera applications, you do not get the ready photo right after snapping. In PhotoAcute the snapped photos must be *processed* to get the picture. You may think of it as of photo development in a film camera.

Snapped images are stored on Memory Card. You can process them either right after snapping, or later, when it is most convenient for you.

Views

PhotoAcute application has three views:

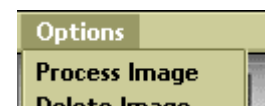
Camera	for snapping
Snapped	for browsing the snapped (unprocessed) photos
Settings	for manipulating various settings

Current view is indicated on the top of the screen.

To switch between views, tap the view icon.



To access the **Options** menu, tap "Options" at the top of the screen.



Snapping

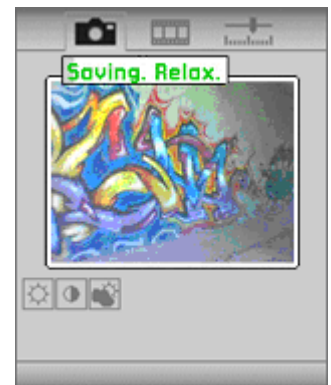
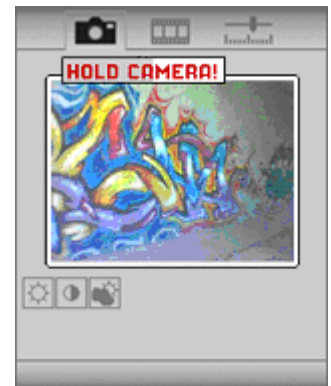
Snapping is performed in **Camera** view.

Tap the viewfinder area, or press the **Jog dial** or **Camera button** to start snapping.

While images are snapped, you are prompted to hold the camera. The progress is indicated for your convenience.

When the snapping is over, you are notified immediately.

After the image is snapped and saved, you are prompted to enter the image name. Enter the name and tap **Ok**. You can tap **Cancel** button here if you do not want this image to be saved.

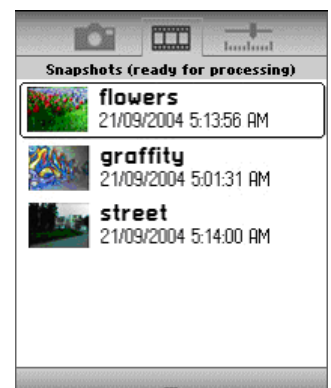


Snapped Images

In the **Snapped** view, you have the following options available:

Process Photo – start the processing of selected photo(s)

Delete – delete the selected photo(s)



If you wish to process or delete more than one photo at a time, tap list items to mark the photos.

Processing

Processing Options

Select **Process Photo** from **Snapped** view. You are directed to the **Processing Options** page.

You can start processing by tapping **Start**, or change the options (tap the option to alter it).

Processing Options:	
Large photo functions	Merge
Brightness and geometry correction	Yes
Save standart photo	Yes
JPEG compression	Normal
Start!	Cancel

Options:

- **Large photo functions (Merge/Zoom/Both)**
PhotoAcute produces large photos by two methods:
 - Merging several snapshots: gives maximum quality, but works only for static scenes
 - Applying intelligent zoom algorithm to the first snapped frameThis option allows you to select what methods you want to be applied.
- **Geometry and Brightness correction (Yes/No)**
If this option is selected, PhotoAcute corrects barrel distortion and darkening in the corners. Normally, you should not disable this option.
- **Save standard photo (Yes/No)**
If this option is selected, PhotoAcute saves unprocessed photo, similar to what you can get using standard camera application. You can use this option for comparing the standard photo to PhotoAcute result.
- **JPEG Compression (Low/Normal/High)**
This option defines the JPEG compression level for all output photos. Use "Low" for maximum quality, "High" for minimum size.
- **Save photos to (MMC/Phone)**
This option defines whether the resulting photos will be stored to the Memory Card or to the Phone Memory.
- **Delete source photos (Yes/No)**
If Yes, PhotoAcute deletes the source photo after processing.

Processing Results

After processing, several images are stored to your Photo Album:

<code>image_std.jpg</code>	Unprocessed photo, similar to what you can get using standard camera application
<code>image_x2.jpg</code>	Zoomed photo (1280x960)
<code>image.jpg</code>	Merged photo (1280x960)

Thus, if you have processed the photo named "MyAuto", you will get the following photos in your Photo Album: `MyAuto.jpg`, `MyAuto_x2.jpg` and `MyAuto_std.jpg`

Photo Album

To explore you Photo Album, use the standard SonyEricsson application: Pictures.

Settings

The following settings are available:

- **Snapshots per photo (2-8)**
The more snapshots are merged into one photo - the better quality of merged photo is achieved. However, the more time required taking the photo, so you should be sure that there would not be a motion in a scene during snapping. Values less than 4 should not be used normally.
- **Confirm photo name (Yes/No)**
After the photo is snapped, PhotoAcute asks the user to enter the name for this photo. Setting this option to "No" removes this dialog – the photo will be automatically saved with name "imageN".

Camera Settings

In Camera view, you can modify various camera settings: Brightness, Contrast and Lighting (Day/Night mode).

Tap the setting icon and then the setting value to alter it.



Support

If you have any problems or questions regarding using PhotoAcute, please contact our support by email: support@photoacute.com