

# User's Guide for SU-2 Image Viewer

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Issue 1

#### DECLARATION OF CONFORMITY

We, NOKIA CORPORATION, declare under our sole responsibility that the product SU-2 is in conformity with the provisions of the following Council Directive: 1999/5/EC.

A copy of the Declaration of Conformity can be found at  
[http://www.nokia.com/phones/declaration\\_of\\_conformity/](http://www.nokia.com/phones/declaration_of_conformity/).

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The availability of particular products may vary by region. Please check with the Nokia dealer nearest to you.

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# Introduction

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The SU-2 Image Viewer can be connected to compatible phones that support Bluetooth wireless technology. You can view a single picture or a set of pictures that you have taken with the phone camera on a TV screen or compatible video projector.

Read this user's guide carefully before using the SU-2 Image Viewer. More detailed information about phone features is provided in the user's guide of your phone. Check your phone's guide for important safety and maintenance information. In addition, consult your TV's instructions on connecting external devices.

## ■ Bluetooth wireless technology

Since Bluetooth devices communicate using radio waves, your Bluetooth phone and the SU-2 Image Viewer do not need to be in line of sight. The two devices need to be within a maximum of 10 meters of each other, although the connection can be subject to interference from obstructions, such as walls, or from other electronic devices.

The SU-2 Image Viewer is specially designed for compatible Nokia phones that support Bluetooth wireless technology. However, the SU-2 Image Viewer can be used with any compatible Bluetooth devices that support the Object Push Profile (OPP) or Basic Imaging Profile (BIP). A Bluetooth profile is a set of commands that your phone uses for controlling the SU-2 Image Viewer.

Note that the devices need to support Bluetooth wireless technology. The SU-2 Image Viewer is compliant with and adopts Bluetooth Specification 1.1. However, interoperability between the SU-2 Image Viewer and other Bluetooth enabled products is not guaranteed and depends on compatibility. For more information on the compatibility between the SU-2 Image Viewer with other Bluetooth enabled products, please check with the product manufacturer.

In some countries, there may be restrictions on using Bluetooth devices. Check with your local authorities.

## ■ Chargers and batteries

Check the model number of any charger before use with this device. The SU-2 Image Viewer is intended for use with the following chargers: ACP-7, ACP-8 and ACP-12.



**Warning!** Use only batteries and chargers approved by the manufacturer for use with this particular enhancement. The use of any other types will invalidate any approval or warranty applying to the enhancement, and may be dangerous.

For availability of approved batteries and chargers, please check with your dealer.

When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

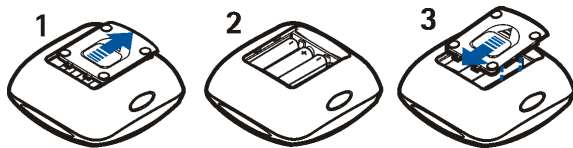
## Power supply for the SU-2 Image Viewer

The SU-2 Image viewer uses either the provided AAA batteries or a compatible charger as a source of power. When connected to a charger, the SU 2- Image Viewer does not use the batteries. Therefore, the batteries can be left in the device, even if they are rechargeable.

When using batteries as a power source, the SU-2 Image Viewer automatically enters sleep mode after 10 minutes, if it is switched on, but not connected to a Bluetooth device. When the batteries are running out of power, a low battery icon is displayed on the TV screen and the SU-2 Image Viewer switches off after 3 minutes.

## Installing the batteries

Install the batteries as shown in the picture below.



**Note:** Always switch the power off and disconnect the device from the charger or any other enhancement before removing the cover.

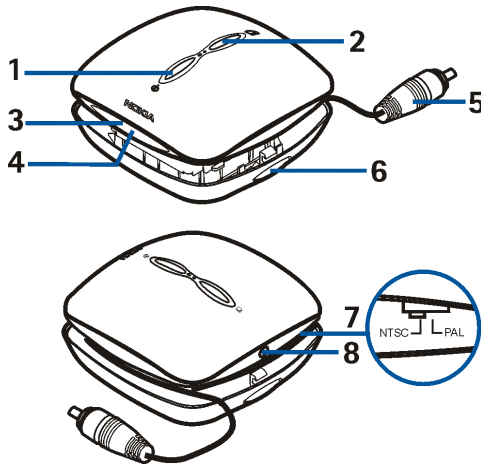
## ■ Technical data

- Weight: 105 g
- Length: 98 mm
- Width: 98 mm
- Thickness: 42 mm
- Operating time up to 90 – 255 min (depending on battery level)
- Operating temperature: 5° C to 55° C (indoor use only)
- Compatibility: The SU-2 Image Viewer is compatible with PAL and NTSC standards. SECAM TV sets require a special adapter that is not supplied in the sales package. The SECAM adapter can be bought in hardware shop. You can also connect the SU-2 Image Viewer to a compatible video projector through an AV connector.
- Power supply: 4 AAA batteries or Nokia chargers: ACP-7, ACP-8, ACP-12
- Connection: RCA connector for TV, Bluetooth (version 1.1) for the phone.

## ■ Overview

The SU-2 Image Viewer has the following parts:

1. Power on/off/rotate button, see page 12 for use
2. Pause/continue button, see page 13 for use.
3. Power/Bluetooth status indicator light (blue)
4. Charger indicator light (green)
5. RCA connector and cable
6. Release buttons on both sides, see [Using the SU-2 Image Viewer for the first time](#) on page 9.
7. NTSC/PAL switch
8. Charger connector





## ■ Using the SU-2 Image Viewer for the first time

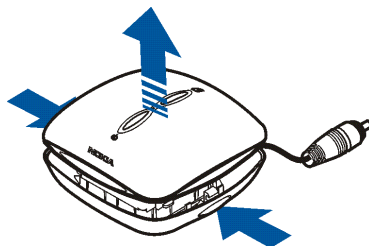
1. Press the release buttons on both sides of the SU-2 Image Viewer to lift the cover up.

Check that the NTSC/PAL switch is in the correct position and that it corresponds to the TV standard used in your country.

2. Connect the SU-2 Image Viewer to the RCA connector on your TV.

If your TV does not have a RCA connector, you need a RCA/SCART adapter, which you can obtain from a hardware shop.

3. Switch on the SU-2 Image Viewer. The Nokia logo appears on your TV screen.
4. Make sure that your phone is switched on. Then, enter your phone's Bluetooth menu and activate the Bluetooth connection.
5. Enter the submenu where you can set the phone to search for Bluetooth devices, and start the search. The phone searches for all Bluetooth devices within about 10 meters and shows them in a list.
6. Select SU-2 from the list.



7. Key in the four digit verification code ("pair") to your phone. The code is shown on your TV screen in the top right corner.

Once you have keyed in the verification code, your phone sends it to the SU-2 Image Viewer. See [Using the SU-2 Image Viewer with several paired phones](#) on page 13.

The blue indicator light shows that the Bluetooth connection is active. The SU-2 Image Viewer appears in the phone menu where you can view the Bluetooth devices that are currently paired with your phone.

8. Start using the SU-2 Image Viewer.

# 1. Using the SU-2 Image Viewer

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## ■ Before using the SU-2 Image Viewer

Before you start using the SU-2 Image Viewer, check the following on your TV, phone and SU-2 Image Viewer:

### TV:

1. Your TV is switched on and you have selected the right AV channel.
2. Your TV screen has been set to a 4/3 ratio.

### Phone:

1. Your compatible phone is switched on and the Bluetooth connection is active, see your phone's user's guide.
2. Your phone is paired with the SU-2 Image Viewer. For instructions see [Using the SU-2 Image Viewer for the first time](#) on page 9.

### SU-2 Image Viewer:

1. You have set the NTSC/PAL switch on the SU-2 Image Viewer in accordance with the TV standard used in your country. See [List of countries using the SECAM TV standard](#) on page 16.
2. The SU-2 Image Viewer is switched on and the Nokia logo is displayed on your TV screen.
3. The SU-2 Image Viewer is paired with your phone. For instructions, see [Using the SU-2 Image Viewer for the first time](#) on page 9.

4. The SU-2 Image Viewer is within 10 meters of your phone and there are no obstructions, such as walls, or other electronic devices between the TV image viewer and the phone.

## ■ SU-2 Image Viewer memory and picture formats

The SU-2 Image Viewer supports the most common variations of the JPEG format. The image size can be up to 640 x 480 pixels. The SU-2 Image Viewer can show up to 65 pictures or a total of 3 MB of images. You can display one image at a time or a set of images as a slide show. Sending more than one image to the SU-2 Image Viewer automatically starts a slide show. The default display time for each image in slide show mode is 8 seconds. Sending new image(s) replaces all images in the SU-2 Image Viewer's memory. Switching off the SU-2 Image Viewer erases all images from its memory.

## Viewing images with the SU-2 Image Viewer

You can view images one by one or in slide show mode. If you send more than one picture to the SU-2 Image Viewer at a time, the pictures are automatically displayed as a slide show.

### Power on/off/rotate button

- To switch on the SU-2 Image Viewer, press the button briefly (3 s.), then release it.
- To switch the SU-2 Image Viewer off, press the button briefly (3 s.)

- To rotate an image 90 degrees clockwise, press the button briefly (less than 3 s.). Each keypress rotates the picture one step.

#### **Pause/continue/time change button**

- To pause a slide show, press the button briefly (less than 3 s.)
- To continue a slide show, press the button briefly (less than 3 s.)
- To switch the length of the time display times between 8 and 4 s., press the button briefly (3 s.)

When you send pictures to the SU-2 Image Viewer, the power/Bluetooth status indicator light blinks. If during the image transfer the connection between the phone and the SU-2 Image Viewer fails, the connection failure icon appears on the TV screen. Resend the image again. Note that you can pair up to 10 devices with the SU-2 Image Viewer and send images from one device at a time.

### **Using the SU-2 Image Viewer with several paired phones**

The SU-2 Image Viewer can be paired with up to 10 phones, but it can be connected to only one phone at a time.

If the SU-2 Image Viewer is switched on within 10 metres of several paired phones, it tries to connect to the phone that was first paired with the SU-2 Image Viewer.

If the SU-2 Image Viewer cannot connect to the first paired phone (for example, it is switched off or its user rejects the connection), the SU-2 Image Viewer tries to connect to the phone that was last used with the SU-2 Image Viewer.

If the SU-2 Image Viewer cannot connect to either of the two phones, it can be discovered by other phones. This is shown by the blue indicator light.

If you want to use the SU-2 Image Viewer with a paired phone that is not the first paired or the last used one, make the connection in your phone's Bluetooth menu.

## **SU-2 Image Viewer modes**

### **Discoverable mode:**

- The SU-2 Image Viewer is visible to other Bluetooth devices that are using inquiry scan. The SU-2 Image Viewer can also be connected to new compatible Bluetooth devices.
- Power/Bluetooth indicator is active. If the charger is connected, the battery indicator light is active.

### **Transfer mode:**

- The SU-2 Image Viewer is in transfer mode when it is receiving images over a Bluetooth connection. When the images have been received, the SU-2 Image Viewer returns to discoverable mode. You can send multiple images during one transfer session. Note that only one transfer session can be active at a time.
- Power/Bluetooth indicator light is active. If the charger is connected, the battery indicator light is active.

### **Power supply mode:**

- The SU-2 Image Viewer is in power supply mode when it is connected to the charger.

### **Sleep mode:**

- The SU-2 Image Viewer enters sleep mode when it is powered by batteries and has not been used for 10 minutes. Sleep mode is not activated, if the SU-2 Image Viewer is connected to a charger, or an ongoing slide show has not finished being displayed.

### **Battery low mode:**

- When the batteries are low, the SU-2 Image Viewer does not enter sleep mode. Low batteries are indicated by an icon on your TV screen. Plug a charger into the SU-2 Image Viewer to continue to display images. If you remove the batteries from the SU-2 Image Viewer, all displayed pictures are erased.

## **SU-2 Image Viewer icons**



The power on/off icon is located next to the power button on the SU-2 Image Viewer.



The slide show icon is located next to the pause/continue button on the SU-2 Image Viewer.



The low battery icon is shown on the TV screen to indicate that the SU-2 Image Viewer will soon switch off, and that it needs to be connected to the charger.



The slide show display time is shown on the TV screen to indicate that the time interval is 4 seconds.



The slide show display time is shown on the TV screen to indicate that the time interval is 8 seconds.



The wrong image icon is shown on TV screen to indicate that the image is not in the correct format (JPEG), or that the pixels are above VGA resolution.



The out of range icon is shown on TV screen when the Bluetooth connection between the phone and the SU-2 Image Viewer is broken while sending the images.



The image transfer icon is shown on TV screen when the first image is sent to the SU-2 Image Viewer.

## ■ List of countries using the SECAM TV standard

The following information may not be completely accurate as some countries have an official TV standard, but new cable companies broadcast using a different system. To use the SU-2 Image Viewer with the SECAM TV standard, you need a SECAM/PAL or SECAM/NTSC adapter that can be obtained from a hardware shop. The SECAM TV standard is in use in the following countries:

Bulgaria, Burkina Faso, Burundi, Chad, Dahomey, Djibouti, Egypt (SECAM/PAL), France, French Polynesia, Gabon, Guadelupe, Guyana (French), Hungary (SECAM/PAL), Iran, Iraq, Ivory Coast, Lebanon, Libya, Luxembourg (PAL/SECAM), Madagascar, Mali, Martinique, Mauritania, Mauritius, Monaco, Mongolia, Morocco, New Caledonia, Niger, Reunion, Russia, Rwanda, Saudi Arabia (SECAM/PAL), Syria, Tahiti, Togo, Tunisia, Ukraine (PAL/SECAM), Zaire.



## 2. Battery information

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Your SU-2 Image Viewer can be powered by 4 AAA batteries. Make sure that you change the batteries regularly to ensure the longest operation time. Note that if you use a compatible Nokia charger as a power supply, you do not need to remove the batteries from the SU-2 Image Viewer. In addition, note that the SU-2 Image Viewer does not use the batteries when it is connected to a charger.

### ■ Charging and Discharging

When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery.

Use only batteries approved by the manufacturer. Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused a fully charged battery will discharge itself over time.

Use the battery only for its intended purpose.

Never use any charger or battery which is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59° F and 77° F). A device with a hot or cold battery may

temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire !

Dispose of batteries according to local regulations (e.g. recycling). Do not dispose as household waste.

# Care and maintenance

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Your SU-2 Image Viewer is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep all enhancements out of the reach of small children.
- Keep the SU-2 Image Viewer dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the SU-2 Image Viewer in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the SU-2 Image Viewer in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the SU-2 Image Viewer in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open the SU-2 Image Viewer. Non-expert handling may damage it.
- Do not drop, knock or shake the SU-2 Image Viewer. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the SU-2 Image Viewer.
- Do not paint the SU-2 Image Viewer. Paint can clog the moving parts and prevent proper operation.

If the SU-2 Image Viewer is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

