



Applications

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▶ Initial Settings

✕ To use the wireless sharing function provided with this product, Windows Vista must be running on your computer and a wireless LAN access point (AP) must be in your vicinity. (For Windows XP users, Windows Media Player 11 is required and must be installed on your PC.)

1. Choose Your Language



Turn on your Digital Photo Frame and select a language. The selected language is used as the OSD language and for the "Samsung Photo Frame Web Configuration" which is embedded in your Digital Photo Frame. You can change the language via Settings -> Language.

2. Choose Your WiFi Network



A list of APs is displayed. (If there are no APs displayed, click "Refresh Networks" to update the list.)

Select an AP to connect to and the connection state is displayed in a popup window and the "Choose Computer" screen will appear.

3. Choose Computer

A list of PCs is displayed. (If there are no PCs displayed, click "Refresh List" to update the list.) Select a PC to connect to and the Main screen will appear.



- ✗ Ensure that the settings are configured as shown below.
Otherwise, your PC may not be displayed in the list or you may not be able to connect to it.
- ✗ In Vista, select Control Panel > Network and Sharing Center > Customize. Check whether the Location type is set to Private. Select Digital Photo Frame from the Windows Media Player > Library > Media Sharing list. Check whether it is set to Allow.

▶ Installation Program Guide and User Recommendations

01 Windows XP

01 We highly recommend installing **.Net Framework 3.0**.

02 Click on the "Frame Manager" icon in the Manual - Main screen to run the installation file.

Installing Frame Manager

Frame Manager User's Manual

03 **Windows Media Player 11** or later must be installed.

04 **Digital Image Library Starter Edition (DISE)**

: This program allows you to change the ratings for the photos on your Digital Photo Frame via your PC.

02 Windows Vista

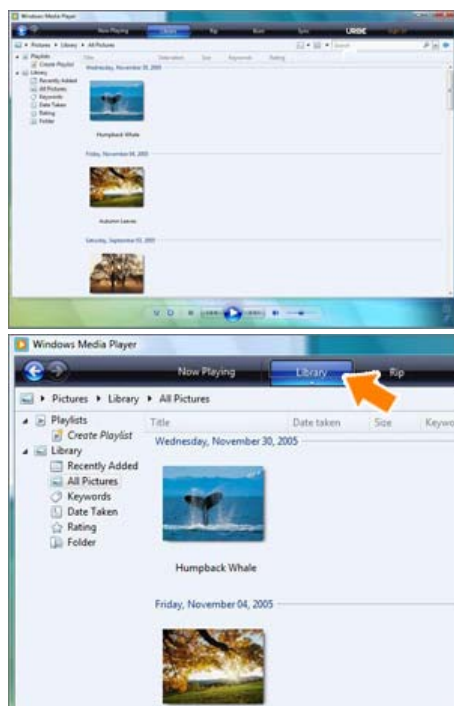
01 Click on the "Frame Manager" icon in the Manual - Main screen to run the installation file.

Installing Frame Manager

Frame Manager User's Manual

▶ Settings for Sharing the Photos on your PC - Configuring Your Windows Vista

01 Adding Photos to the Library



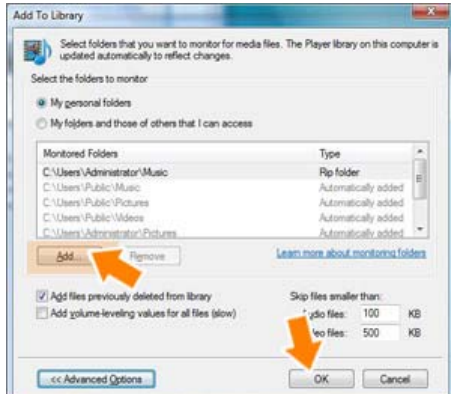
01 Run Windows Media Player.

02 Click the [Library] tab at the top.

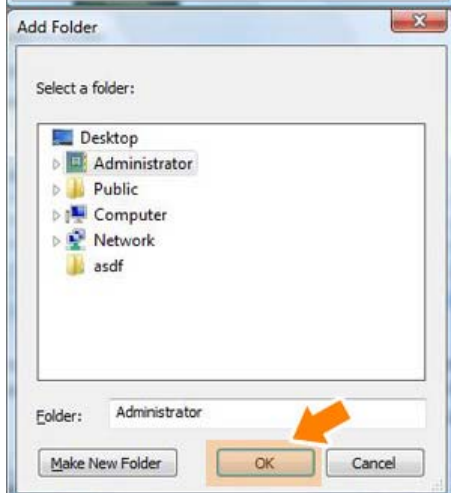
03 Click [Add To Library] in the [Library] tab.



04 In the [Add To Library] window, select [My personal folders] under the [Select the folders to monitor] section and select the folder containing photos and click [Add].



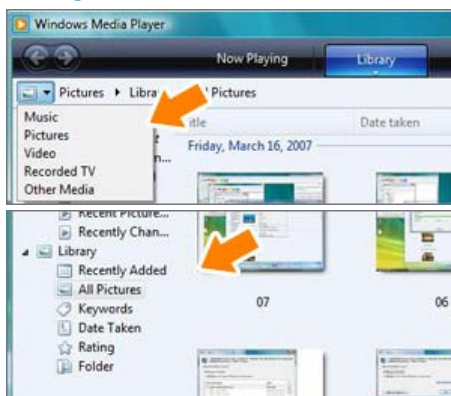
Select the folder to share and click [OK] to add it.



05 When you click [OK], the [Add To Library] window is closed and the [Add to Library by Searching Computer] is displayed. Wait until it finishes the operation and click [Close] when it is completed.



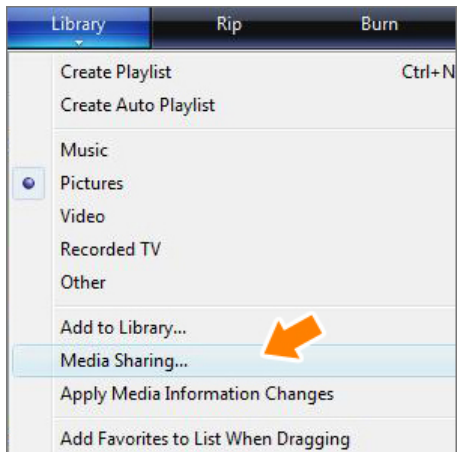
02 Checking Shared Photos



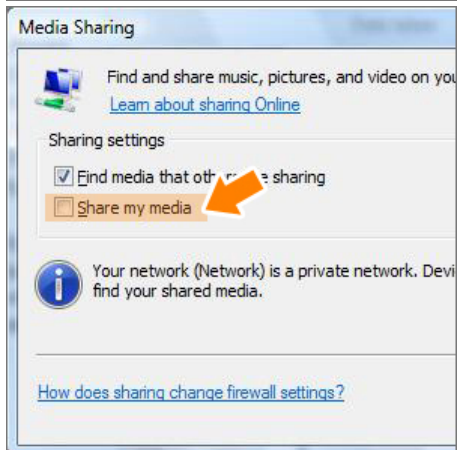
01 In the Windows Media Player, set the Category, which is under the [📁, 📁] symbol at the top left, to [Picture].

02 In the [Library], select Recently added, All Pictures, Keywords, Date Taken, Rating, or Folder settings and check whether the added photos exist in the library.

03 Sharing Settings for Accepting Connections from Your Photo Frame



01 In the [Library] tab, click on [Media Sharing].



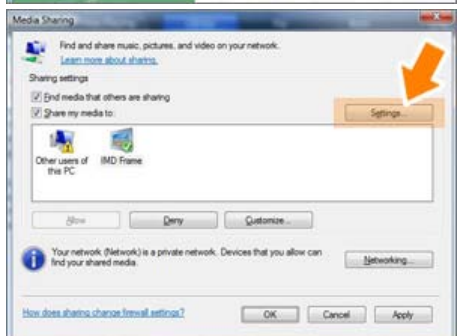
02 In the [Media Sharing] window, check the [Share my media] checkbox under [Sharing settings].



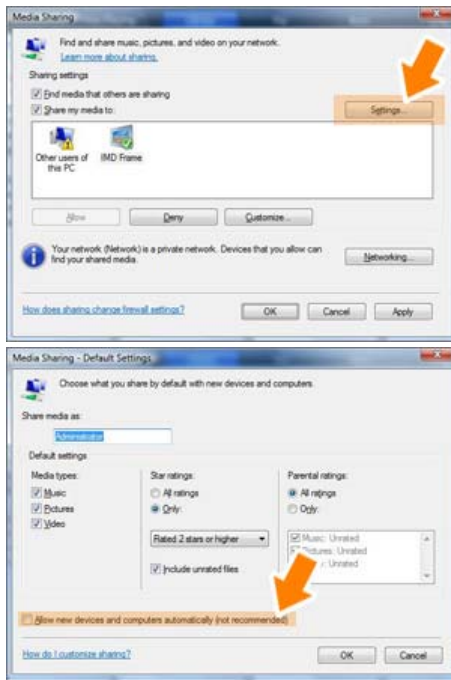
03 If no [Available device] is displayed in the [Media Sharing] window, proceed to steps 4. If displayed, proceed to step 5.



04 In the [Media Sharing] window, click [Networking] and check whether the current network is set to [Private network]. If not, set it to [Private Network].



05 If your network is a Private network, the [Available Device] list and the [Settings] button are displayed in the [Media Sharing] window.



06 In the [Media Sharing] window, click [Settings].
The [Media Sharing-Default Settings] window is displayed.

07 In the [Media Sharing-Default Settings] window, set the [Media Type] to [Picture], both [Star ratings] and [Parental ratings] to [All ratings] or a required rating under the [Default Settings] section. If you want to add a device or computer which tries to connect to the library to the list automatically, check the [Add new devices and computers automatically] checkbox.

✘ Only photos can be transmitted via PC sharing.

▶ Settings for Sharing the Photos on Your PC - Configuring Your Photo Frame

01 Checking Network Connections



01 Check whether the Network icon is displayed at the left top of the Main screen.

02 If the Network icon is displayed, proceed to the **Checking Computer Connections** section described below. If it is not displayed, move to [Settings]-[Wireless Network(SSID)].

✘ SSID : Service Set Identifier

03 In the [Wireless Network(SSID)] window, select the SSID to which you want to connect your Digital Photo Frame to. If no available SSID is displayed, click [Refresh Networks] to update the list.

04 If the "Connected" message is displayed, it means that your Digital Photo Frame is connected to the network.



02 Checking Computer Connections



01 Check whether the PC icon is displayed at the top left of the screen.



02 If the PC icon[PC] is displayed, move to the Main screen. If not, move to [Settings]-[Default Computer].



03 In the [Default Computer] window, select the PC you want to connect your Digital Photo Frame to. If a required PC is not displayed, click on [Refresh List] to update the list and select it.



04 If connected, you will be returned to the [Settings] screen. You will find that the PC icon is displayed at the top left of that screen.

03 Checking Computer Connections



01 In the Main screen, select [Photos].

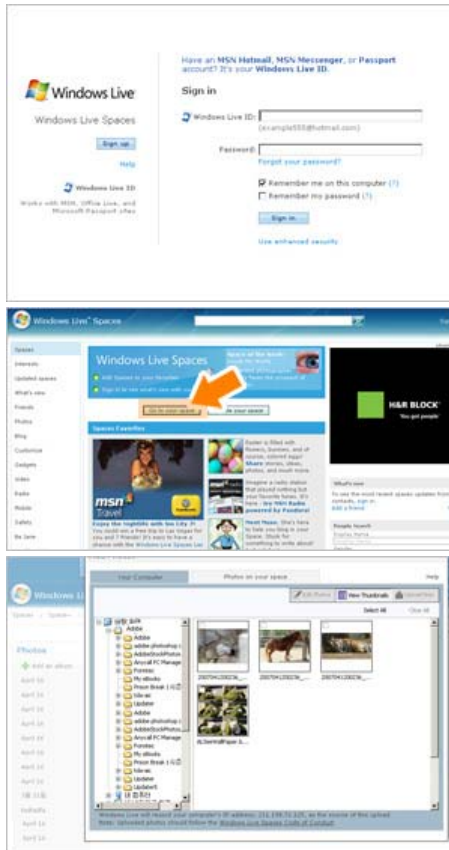
02 In the [Photos] screen, check whether the ['Account Name's Photos' on 'Computer Name'] is correct. If incorrect, press the [Menu] button and select the PC you want to connect to.



- 03 You can view the shared photos on the connected computer via Playlists, Tags, Dates, Folders, and Ratings.

▣ Viewing the Photos from Windows Live Space

01 Checking Windows Live Space and Uploading Photos



- 01 If you have no MSN account (MSN Hotmail, MSN Messenger, Passport account), please create one. Go to and login to Windows Live Space (<http://spaces.live.com/>) with your MSN account.

- 02 If you do not have a space, create a space and enter it.

- 03 In your space, change to edit mode. Add albums and photos by clicking on Add under the Photos category.

02 Setting up the Web Configuration



- 01 In your Digital Photo Frame, go to [Settings]-[Management Web Address]. Make a note of the web address (URL) displayed in the Management Web Address window. Connect to that address using Internet Explorer on your PC.

Alternatively, if you click the **Frame Manager** icon () in the tray menu at the bottom right of the PC screen, a linked frame list will be displayed. If you select a frame name, the **Samsung Photo Frame Web Configuration** screen for the corresponding



02

frame appears.

When connected, the Welcome page will be displayed. On the Welcome page, enter the password displayed in the [Settings]-[Management Password] screen of your Digital Photo Frame in the [Password] box and click [Sign in].

✘ You can change the password (default: Admin) in the Settings of the Samsung Photo Frame Web Configuration.



03

On the Samsung Photo Frame Web Configuration page, click the [Web Photos] tab and add the space address (for example, if it is 'http://test.space.live.com', you have only to type 'test'.) to the URL input box for the Photos From Windows Live Spaces list and click [Add].

09 Checking your Space Photos on your Digital Photo Frame



01

First check the network connections. (Refer to Viewing the Photos Shared from Vista Windows on your Digital Photo Frame - What You Should Do on Your Digital Photo Frame - Checking Network Connections.)



02

In the Main screen of your Digital Photo Frame, go to [Web Photo]-[Windows Live Space]. A list of the spaces you have added to the Web Configuration will be displayed.



03

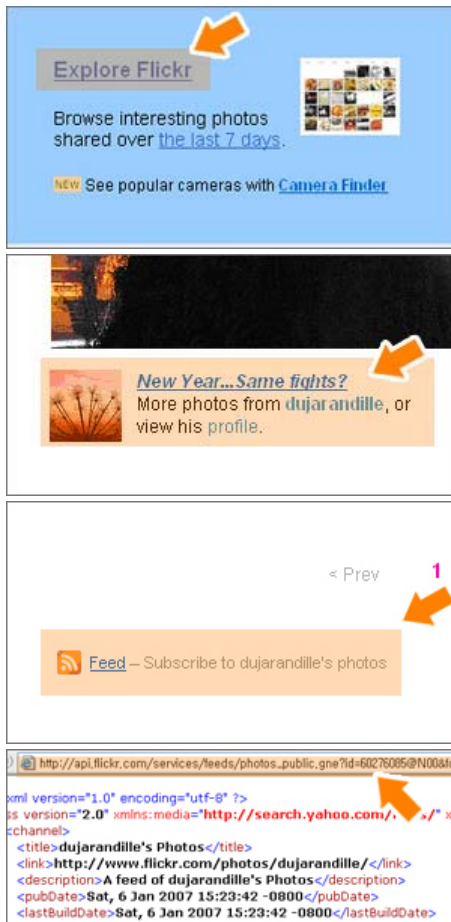
Select a space. A list of albums in the selected space will be displayed. Select an album, and thumbnails for the photos in the selected album will be displayed on the right.

▣ Viewing the Photos via RSS

01 Obtaining an RSS Address

01

We will explain by using Yahoo Flickr. Though you can create your own account



and upload photos, we will get photos from other peoples Flickr. Connect to <http://www.flickr.com/> and click on Explore Flickr.

02 Click on the marked part, as shown in the figure on the left.

03 You are now in the Flickr of that person and a list of photos will be displayed. Scroll down to the bottom of that page and click on the [Feed] icon located there.

04 When clicked, an XML page is displayed, as shown in the figure on the left. Copy the address displayed in the Internet Explorer Address box. This is the RSS address.

02 Web Configuration



01 Go to the Web Photos page by following the description in the Settings Web Configuration section for Windows Live Space. In the [Web Photos]-[Photo Feeds] window, paste the copied address into the RSS address input box and click [Add].

03 Checking the Photos from RSS on Your Digital Photo Frame



02 In the Main screen of your Digital Photo Frame, go to [Web Photo]-[RSS and Web Feeds]. A list of feeds you have added to the Web Configuration will be displayed.

03 Select a feed from the list. Thumbnails for the photos in the selected feed will be displayed to the right.

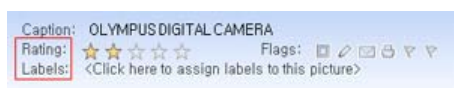
▣ Setting up Rating and Tags (VISTA:Tags, XP:Labels) on a PC

01 Windows VISTA



- 01 Click Start - All Programs - Windows Photo Gallery to launch the Windows Photo Gallery.
- 02 If you select Info at the top of the Windows Photo Gallery screen, the photo information pane appears on the right.
- 03 Select a photo and change the **Rating** or **Tags** in the right information pane.

02 Windows XP



- 01 Click **Start - All Programs - Microsoft Digital Image Starter Edition 2006 - Microsoft Digital Image Starter Edition 2006 Library**.
- 02 The **Microsoft Digital Image Starter Edition 2006 Library** window appears.
- 03 Select a photo and configure the **Rating** and **Labels** for the selected photo at the bottom of the screen.

▣ I want to update firmware.

01 Preparations

- 01 Digital Photo Frame
 - 02 Firmware update file.
 - 03 USB memory card or external memory devices(CF/SD/MMC/MS/XD)
- ✗ Please visit www.samsung.com for the latest firmware update.

02 Connect USB memory card to PC

- 01 If you are ready, connect the USB memory card to your PC.
 - 02 Copy the firmware update file you downloaded to the USB memory card.
- ✗ (Make sure to copy the firmware update file to the root directory.)

03 Connect USB Memory Card to Digital Photo Frame

- 01 Remove the USB memory card from your PC, and connect it to your Digital Photo Frame.
- ✗ If your Digital Photo Frame is off, turn it on.

04 Select Update

- 01 Select **Firmware Update** of **Settings**.

05 Updating

- 01 The update progression is displayed on the screen.
 - 02 After boot-up, turn your Digital Photo Frame off, remove the USB memory card, and turn your Digital Photo Frame on again, for maximum safety.
- ✗ Do not remove the USB memory card during the update operation.
Do not press any key during the update operation.
Do not insert any other card during the update operation.
Do not turn your Digital Photo Frame off during the update operation.
You can identify whether the update operation has finished successfully or not by checking the firmware version of your Digital Photo Frame is changed to the version of the firmware update.

▣ I want to connect to a monitor by using Mini-Monitor program.



Mini-Monitor is a function that enables the Digital Photo Frame to be operated as the Secondary Monitor.

Installing Frame Manager

Frame Manager User's Manual

⌘ Caution

- The Installation may not run properly under other OS except Widows XP SP2 and we are not responsible for any problems occurred by ignoring this caution.
- It returns to PC Connect screen by selecting Exit from the Frame Manager when a USB cable is connected.
- Follow the proper installation procedures of the installation guide.
- Do not set the Mini-Monitor to Primary.
The user is responsible for any problems occurred by ingoring this caution.
- Move the program to the Primary Monitor after it is displayed and uesd in the Mini-Monitor.
- We highly recommend setting the background of the Desktop to "(None)" in order to smoothly use the Mini-Monitor function.
- With some video cards, Mini-Monitor may not operate normally. In this case, set Hardware acceleration to Full.
⌘ (Make sure to copy the firmware update file to the root directory.) To set Hardware acceleration to Full: Right-click on the Windows Desktop and select Properties from the displayed menu. The Display Properties window appears. Click the Settings > Advanced > Troubleshoot tab. Move the Hardware acceleration slide to Full.

⌘ System Requirements

- **OS** : Windows XP SP2
- System Processor Speed : 1.5 GHz
- **USB** : Extended Host Controller (EHCT) for USB 2.0
- **RAM** : 256 MB or above

⌘ Limitation and Recommendation

- **Limitation** : Hardware graphics acceleration such as DirectX or OpenGL is not supported on the Minimo Display as it would require the emulation of a graphics processor by your standard CPU which would not be favourable. Media players which are using DirectX will not work properly on Minimo Display.
> Example: GOM player,VLC Player
- **Recommendation** : Do not use/run directX or openGL application on Minimo display.

01 Attention

- 01 Windows XP Service Pack 2 must be installed.
- 02 We recommend a CPU clock speed of 2.4 GHz or higher.
For speeds less than this, the screen speed may decrease or your Photo Frame may not work properly.
- 03 Mini-Monitor must be used as the Secondary monitor. If used as the Primary monitor, no scenes may be displayed.
- 04 You must use the USB cable provided with the product.
- 05 When operating in Mini-Monitor, all buttons except for the Power button do not work.
- 06 When operating in Mini-Monitor, you can see the screen. Sound is not supported.
- 07 In the Mini-Monitor function, the Brightness Bar will appear to control the Brightness once you click the Frame Manager Icon.

02 Application

- 01 Connect the Digital Photo Frame with a PC using a USB cable.
- 02 In the Digital Photo Frame, a screen appears as shown above to select the Mass Storage or the Mini-Monitor.
- 03 Find the directory installed above to connect when the Digital Photo Frame Driver is requested.
- 04 The Driver is installed automatically and a tray icon(Frame Manager) as shown below will appear at the system tray.



When the Mass Storage or the Mini-Monitor is selected, the pertinent function

will be run.

06 A screen appears to select between the Mass Storage and the Mini-Monitor by right-clicking the mouse on the tray icon(Frame Manager) of the Windows.

07 When the Digital Photo Frame is running as the Mini-Monitor, a Bar to adjust the brightness will appear by left-clicking the mouse on the tray icon(Frame Manager) of the Windows.



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Digital Photo Frame





Specifications

Specifications

Supported Files

Specifications

Items		Specifications
Model Name		SPF-83V
Panel	Type	8 "(20 cm)TFT
	Resolution	800 x 600
	Brightness	200cd/ m ²
	Contrast Ratio	500:1
	View Angle	70 / 70 / 50 / 70 (Up / Down / Right / Left)
	Interface	Digital 6 bit
Supported Formats		Support for MPEG1, 4, and WMV9 scaled up to 1024x768 MPEG4 SP, ASP/L3,L5 (720x480, 2Mbps, 30fps) WMV9 SP, MP/medium level (720x480, 2Mbps, 30fps) JPEG max Image Resolution 3200x2400(8Mb) (Progressive JPEG is not supported.)
Built-in Memory		64Mb
Network		Wi-Fi 802.11b/g 2.4GHz 54Mbps
Audio		1 W x 1 built-in speaker
USB		USB 2.0 (One up stream (device 2.0) and one down stream (host 1.1), External Memory Reader is not supported)
Media (Memory Card)		4 in 1(SD≤4Gb / MMC≤4Gb / XD≤2Gb / MS≤32Gb), CF
Power	Rating	External Power Adapter (12V, 2A, 24W)
	Consumption	Normal : under 15W, Sleep mode: under 4W
Content Files	Photo File	Slide Show/Interval/Effect Image Rotate(auto,manual)/ Thumbnail View/Windows Vista WMP11 support
	Music File	MP3

	Movie File	MPG, MPEG4, WMV9
Networking	Networking	Wi-Fi, DHCP from AP, Image from RSS feed
	Information	Memory Information, file information, status information
Control	I/O Device	Key (8 keys)
	Memory Card	Auto detection and GUI for selection
	File Management	Image copy, delete
General	Dimensions (WxHxD)	230.5 x 182.4 x 120 mm / 9.07 x 7.18 x 4.72 inch
	Weight	650 g / 1.43 lb

✖ **The product design may differ according to the model, and specifications are subject to change without prior notice for product performance enhancement.**



Class B Equipment (Information Communication equipment for residential use)

This product complies with the Electromagnetic Compatibility Directives for residential Use and can be used in all areas including common residential areas. (Class B equipment radiates less electromagnetic influences than class A equipment.)

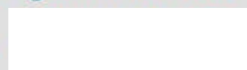
| [Specifications](#) | [Supported Files](#) |

Supported Files

- ♦ The Digital Photo Frame uses these modules:
WinCE 5.0
For more information, visit the following web sites:
RMI Alchemy Developer Support Site(<http://209.254.132.52/RMI/EmbeddedDeveloper.nsf>)

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Digital Photo Frame





Troubleshooting

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Troubleshooting

This section lists various problems and solutions encountered by users while using the digital photo frame. When encountering a problem, first check the list below and follow the suggested action if one matches your problem. If the problem still persists, contact or visit the nearest [service center](#).

Symptoms	Possible Causes and Suggested Actions
My Digital Photo Frame does not turn on.	- Check the power connection between the product and the power adapter. - Check whether the Samsung logo is displayed in full screen mode when pressing the power button.
The power turns on but the screen is blank.	- Check the memory card type. If this is not inserted correctly or is not of a supported type, the photo may not display on the screen. (This product supports USB memory and CF/SD/MMC/XD/MS cards only.) - Check the file extensions if the card and other connections are correct. (This product supports the JPEG image format, MPG1, MPEG4 and WMV9 movie formats, and MP3 music file format only. See Specifications.)
It takes some time to display an image after the digital photo frame turns on.	Loading a file from an external memory card may take several seconds. (This depends on the file format and size.)
No screen is displayed and just sound is heard for MPEG4 and WMV9 movies.	Loading a large sized file may take quite a long time. (This is a matter of specifications.)
The aspect ratio of the screen looks abnormal.	Select one of the three values in the Menu>Photo Aspect>Original, Auto Fit, Fit To Width, Fit To Screen menu using the buttons on the right side of the product. (See Menu>Photo Aspect>Original, Auto Fit, Fit To Width, Fit To Screen)
The screen color is dimmed or too strong.	Adjust the brightness in the Settings>Brightness menu using the buttons on the right side of the product. (See Settings>Brightness)
I have connected an external device (USB memory device or MP3 player), but it does not work.	- Check the cable connection between the product and the external device. - Check whether the external device works as a standalone, and check the format of the files stored on it. - Only USB devices supporting Windows CE 5.0 can be supported. Please check that your USB device supports Windows CE 5.0.
The screen is displayed but there is no sound for MPEG4 and WMV9 movies.	- Try to check the original movie contents file on your PC. - If there is no noticeable error in the settings, it may take some time to switch to the next file depending on the file size and format.
The screen is displayed but there is no	Try to change the Volume menu using the buttons on the right side of the

sound for MPEG4 and WMV9 movies.	product.
The movie freezes at some points.	♦ Freezing may happen depending on the status of the movie file. ♦ Breakings could happen during playback depending on the type and size of movie file.(High bps contents) ♦ Movie file formats : MPEG 4, WMV9 ♦ Resolution : Less than 1024 x 768
Whenever I turn my Digital Photo Frame off and on, I find the time goes wrong.	♦ This product has no built-in battery. When the power turns off, the time info also goes off. Therefore, you need to set time again whenever your Digital Photo Frame turns on. However, if you are connected to the Internet and Settings > Internet time update is set to Auto, the time is updated automatically. (Settings>Internet Time Update)
A menu is not displayed immediately when I press the menu button.	♦ Displaying the menu and other operations may take some time while the product is loading an image to display on the screen.
My Digital Photo Frame does not retrieve photos from the Internet.	♦ Check whether the AP connected to your Digital Photo Frame is accessible to the Internet.
Cannot display web photos during online services.	♦ The maximum file size from the Internet is 4.2 MB. (The maximum local file size is 8.5 MB.) ♦ Receiving photos over the internet The Web and Feed file format is JPEG only (over 400X240 pixels)
Cannot change the image ratings in the Windows Media Center in real time.	♦ It is possible to do so by closing and opening Windows Media Player again.
Cannot change the ratings for the photos on my PC from my Digital Photo Frame.	♦ Frame Manager must be running first. ♦ After making changes, close and open Windows Media Player again
I changed the frame name but it hasn't been applied.	♦ Select and remove the shared Digital Photo Frame from the Library/Media Sharing list in the Windows Media Player and turn both your Digital Photo Frame and PC off and on. Make sure to turn on your Digital Photo Frame after your PC has booted up.
I cannot connect my Digital Photo Frame to the Windows Media Player on my PC.	♦ Check whether both your Digital Photo Frame and PC are connected to the same access point (AP). ♦ In Vista, select Control Panel > Network and Sharing Center > Customize. Check whether the Location type is set to Private. (For more information, refer to Applications > Sharing Settings for Accepting Connections from Your Photo Frame.) ♦ Select Digital Photo Frame from the Windows Media Player > Library > Media Sharing list. Check whether it is set to Allow.
The Frame Manager icon isn't displayed.	♦ Check whether a Digital Photo Frame is connected. If no Digital Photo Frame is connected, the icon is not displayed.

| [Troubleshooting](#) | [Terminology](#) | [Service Centers](#) |

Terminology

Terms	Description
MPEG4 (Motion Picture Expert Group4)	♦ MPEG4 is a movie compression technology for video communications which enables implementing bi-directional multimedia. It was developed to make it possible to transmit movies over low speed lines on the Internet or for mobile communications. It is used widely on PCs, TVs and cell phones. A movie file formatted in the MPEG4 format is called an MPG or MPEG file.
WMV9 (Window Media Video9)	♦ A video codec in the MPEG4 format developed by Microsoft
	♦ MP3 is a high quality audio compression technology. It provides a 50 times higher compression than CD. Because it provides high quality and a low size

MP3
(MPEG Audio Layer-3)

for its compression ratio, it is commonly used on the Internet and for FM radio transmissions, etc. An audio file formatted in the MP3 format is called an MP3 file.

JPEG
(Joint Photographic Coding Expert Group)

- ♦ JPEG is an image compression technology. It provides the smallest loss of all image compression technologies. It is used widely to transmit multimedia files on the Internet and for other uses. An image file formatted in the JPEG format is called a JPEG or JPG file. Usually, a JPEG file is created by taking a picture with a digital camera, by drawing on a computer, or by a graphic package and then by compressing the graphics image into the JPEG format.

CF Card
(CompactFlash Card)

- ♦ A CF card provides a higher capacity than other types of memory card. Because the controller is embedded in the memory, it provides high compatibility. It is widely used in various digital products such as PDAs, digital cameras, MP3 players, cell phones, and notebook PCs.

SD Card
(Secure Digital Card)

- ♦ An SD card is a Flash memory card the size of a postage stamp. It provides high stability and high capacity. It is widely used in various digital products such as PDAs, digital cameras, MP3 players, cell phones, and notebook PCs. Its appearance is similar to that of MMC, but the number of pins and their thickness is different. It also has a password setting function for data security.

MMC
(Multi Media Card)

- ♦ MMC is external Flash memory used for small mobile devices, as in the case of the SD card. Because it has smaller footprints than SD/MMC cards, it has become widely accepted as the standard for memory cards. It is usually used to save movies and photos.

USB Cable
1) A-mini B type

- ♦ Use the up stream terminal when connecting to a PC. This product supports USB 2.0. An A-mini B type cable which is used to connect your digital photo frame to a PC is provided with the product. The A type is the USB connector used to connect to a PC. The B type is the USB connector used to connect to an external device. You can connect your digital photo frame to a PC using an A-mini B type USB cable.

USB Cable
2) Cable for Connecting Other Devices

- ♦ Use this type of cable when using the down stream terminal. This product supports USB 2.0. When connecting an external device to the down stream terminal, use the USB cable provided with the external device.

AP
(Access Point)

- ♦ When using a cell phone, you will hear frequently about a "repeater." In a wireless LAN, AP plays the same role as a repeater. That is, it is an intermediate equipment through which wireless LAN cards receive signals. As a cell phone makes a call through a repeater, a wireless LAN card sends and receives data through an AP.

SSID
(Universal Plug & Play)

- ♦ SSID is a 32-bit unique identifier which is attached to each header of every packet being transmitted on a wireless LAN. It is used as a password when a wireless device connects to a Basic Service Set (BBS). Because SSID allows differentiating a wireless LAN from other wireless LANs, all APs and wireless devices that want to access to a wireless LAN must use the same SSID. If a device does not know the unique SSID of a certain BBS, it cannot connect to that BBS.

| [Troubleshooting](#) | [Terminology](#) | [Service Centers](#) |

Service Centers

If you need a product service, contact or visit a Samsung [service center](#).
For services for network connection and the Server.

Services

Contacts

Samsung Electronics web site

<http://www.samsung.com>



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America

U.S.A	1-800-SAMSUNG (7267864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (7267864)	http://www.samsung.com/ca
MEXICO	01-800-SAMSUNG (7267864)	http://www.samsung.com/mx

Latin America

ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	4004-0000	http://www.samsung.com/br
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Digital Photo Frame



This equipment 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 in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is 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 the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.