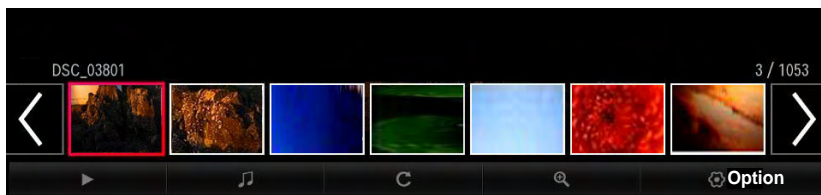# Viewing the Photos

You can view photos stored on a connected device.

To control photo view

You can control playback using the following buttons.

Item	Description
$\langle, \rangle$	Selects the previous or next photo.
▶	If no picture is selected, all photos in the current folder are displayed in a slide show. If some photos are selected, those photos are displayed in a slide show. • Set **Slide Show Speed** in the **Option → Set Photo View.** menu.
♫	You can listen to music while viewing full-size photos. • Set **BGM** in the **Option → Set Photo View.** menu.
↻	Rotates photos. • Rotates a photo 90 °, 180 °, 270 °, 360 ° clockwise. • Photos cannot be rotated if their width is greater than the height of the maximum supported resolution.
⊕	Enlarges or reduces the photo. Use **the Up/Down/Left/Right** buttons to select a page and press the **OK** button.
Option	A setting popup window will appear.

Listening to Music

You can play audio files stored on the connected device.

To control music playback

You can control playback using the following buttons.

Changes the playing position.

Item	Description
⏮ ⏭	Plays the previous/next file.
‖	Pauses the music player.
▶	Resumes normal playback.
⇄	Sets the repeat playback.
⤨	Sets the random playback.
⬓	Plays music with the projector screen turned off.
⚙	Sets Option for the music list.

• You can control playback using the ◀◀ , ▶, and ▶▶ keys on a remote control.
• If you use the USB device, time information will be not shown on screen.

Viewing Files

You can see document files stored on a connected device.
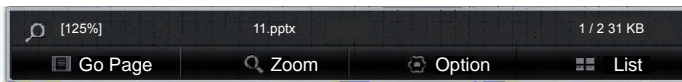
Supported File Formats

XLS, DOC, PPT, TXT, XLSX, PPTX, DOCX, PDF
Microsoft Office 97/2000/2002/2003/2007 version
Adobe PDF 1.0/1.1/1.2/1.3/ 1.4 version

- File Viewer realigns a document, so it may look different from what is displayed on a PC.
- For documents that include images, the resolution may look lower during the realigning process.
- If the document is large or has many pages, it may take longer to load.
- Unsupported fonts may be replaced by other fonts.
- The file viewer may not open for Office documents that contain many high resolution images. In that case, reduce the image file size, save it on a USB storage device and run the file viewer again or connect your PC to the projector and open the file on your PC.

Browsing File Viewer

You can control playback using the following buttons.

- Press the **Go Page** button to move to the previous or next page.
- Press the **volume** button to **zoom** in or **zoom out**.
  - Press the **OK** button.
  - Press the **Up/Down/Left/Right** buttons to move to **Go Page** or **Zoom**.

⌕ [125%]	11.pptx		1 / 2 31 KB
▣ Go Page	⌕ Zoom	⊙ Option	▪▪ List

Item	Description
Go Page	Moves to the page you specify.
Zoom	Enlarges or reduces the document.
Option	Sets Option for File Viewer.
List	Returns to a list.

To set SmartShare™ related functions

Press the **SETTINGS** button on the remote control. Select **SMART SHARE** →
Settings.
Changes settings related to SmartShare™ content playback.

Advanced Setting

Item	Description
My Projector Name	Changes the name that appears when searching for the projector from other devices.
Network Status	Checks the network connection.
Wi-Fi Direct	Allows use of wireless connection functions such as Wi-Fi Direct and WiDi.
Auto Play on Receive	Accepts / rejects content transferred from other devices.
DivX(R) VOD	Registers or releases DivX. Checks DivX Registration Code for playing DivX-protected videos. Register at http://vod.divx.com. Uses Registration Code to rent or purchase movies at www.divx.com/vod. • Rented/purchased DivX files cannot be played if the DivX Registration Code of a different device is used. Use only the DivX Registration Code granted to this device. • Converted files not conforming to the DivX Codec Standard may not play or may produce abnormal images and sound.

Delete History

• To delete contents history, press **Delete History** button.
• Use the contents at **Recent** menu.

SmartShare™ supporting file

- Maximum data transfer rate: 20 Mbps(Mega bit per second)
- External subtitle formats supported: *.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb(PowerDivX)
- Internal subtitle formats supported: XSUB (supports internal subtitles generated from DivX6)

Subtitle Language

Subtitle Language	Language
Latin1	English, Spanish, French, German, Italian, Swedish, Finnish, Dutch, Portuguese, Danish, Romanian, Norwegian, Albanian, Gaelic, Welsh, Irish, Catalan, Valencian
Latin2	Bosnian, Polish, Croatian, Czech, Slovak, Slovenian, Serbian, Hungarian
Latin4	Estonian, Latvian, Lithuanian
Cyrillic	Bulgarian, Macedonian, Russian, Ukranian, Kazakh
Greek	Greek
Turkish	Turkish
Hebrew	Modern Hebrew
Chinese	Simplified Chinese
Korean	Korean
Arabic	Arabic

Video Supported Codec

Maximum resolution: 1920 x 1080 @ 30p

Extension	Codec	
.asf **.wmv**	**Video**	VC-1 Advanced Profile, VC-1 Simple and Main Profile
	Audio	WMA Standard, WMA 9 Professional
.divx **.avi**	**Video**	DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC, Motion Jpeg, MPEG-4 Part 2
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, LPCM, ADPCM, DTS
.mp4 **.m4v** **.mov**	**Video**	H.264/AVC, MPEG-4 Part 2
	Audio	AAC , MPEG-1 Layer III (MP3)
.3gp **.3g2**	**Video**	H.264/AVC, MPEG-4 Part 2
	Audio	AAC, AMR-NB, AMR-WB
.mkv	**Video**	H.264/AVC
	Audio	HE-AAC, Dolby Digital
.ts **.trp** **.tp** **.mts** **.m2ts**	**Video**	H.264/AVC, MPEG-2, VC-1
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3) Dolby Digital, Dolby Digital Plus, AAC
.vob	**Video**	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM
.mpg **.mpeg**	**Video**	MPEG-1, MPEG-2
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III(MP3), AAC

Audio File

File type	Item	Info
mp3	**Bit rate**	32 Kbps - 320 Kbps
	Sample freq.	16 kHz - 48 kHz
	Support	MPEG1, MPEG2, Layer2, Layer3

Available photo file

File type	Item	Profile
2D (jpeg, jpg, jpe)	**JPEG**	Minimum: 64 x 64 Maximum: Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H)

To connect DLNA

DLNA stands for Digital Living Network Alliance, which allows you to enjoy video / music / photo files stored on a PC or server on your Projector via home networking.

To connect a DLNA-authenticated Smartphone

The Projector and the smartphone should be on the same network.

1 Ensure that Wi-Fi is enabled on the smartphone.

2 Install / run the app to share content on the smartphone.

3 Run "Share my mobile phone Content".

4 Select the kind of content (video / music / photo) you wish to play.

5 Select the video, music or photo file to play on the Projector.

6 Select Add to Play List.

7 Select Projector model name on the device you want to play content from. (Projector model name is on the label of the device.)

8 Play ▶ Shows the selected file on Projector.

To connect DLNA DMR (Digital Media Renderer)

If the PC's operating system is Windows 7 or Windows 8 or the DLNA-certified device (e.g. mobile phone) is connected via a network, you can play music / videos / photos on Projector without installing a separate program.

1 Configure Projector and PC on the same network. Configure Windows 7 or Windows 8-installed PC on the network.

2 Right-click the music / video / photo file that you want to play and use the "Remote Playback" feature that comes with Windows 7 or Windows 8.To play content from a device such as a mobile phone, refer to the Owner's Manual for the device.

3 Content will be played on one device only even if more than one Projector or device is connected. Play speed can vary depending on network speed.

To connect DLNA DMP (Digital Media Player)

With a PC having SmartShare™ PC software, music / video / photo files may be replayed on the Projector by linking them via home networking.

1 Configure Projector and PC on the same network. The Projector and each device should be connected through a single access point to enable DLNA service.

2 Install SmartShare™ PC software on the PC from the website. Before installation, close all running programs including firewall and anti-virus programs.

3 The sever should be running in order to watch the shared file on your Projector.

SmartShare™ PC SW Installing & Setting

Install the SmartShare™ PC SW(DLNA) programme on your PC.

1 Download the setup file from the path below in order to use the DLNA function.
http://liu.lge.com/smartshare/release/smartshare.zip

2 Install the downloaded SmartShare™ PC software.

3 You can run the programme when installation is complete.

> 🛈 **NOTE**
>
> • DLNA or Media Link service is only available if projector and other devices are connected via a single router.

PC requirement for installing LG SmartShare™

Item	Minimum Specifications	Recommended Specifications
CPU	Intel Pentium4 2.0 G or higher/ AMD Sempron 2000 or higher	Intel Pentium Dual Core or higher/AMD Athlon 64 x 2 or higher
RAM	1 GB or higher	2 GB or higher
VGA	64 MB RAM, 1024 x 768 or higher resolution, and a video card that supports 16 bit or more colors	128 MB RAM, 1024 x 768 or higher resolution, and a video card that supports 16 bit or more colors
Hard Disk Drive	200 MB or higher	
Operating System	Windows XP (Service Pack 2 or later), Windows Vista, Windows 7, Windows 8 I Windows Media Player: 11.0.5721.5280 or higher is recommended	
Network Environment	100 MB Ethernet, Wireless LAN (WLAN) IEEE 802.11g or higher	

• Program speed can be delayed depending on the system performance and the network environment.

In case of a DLNA malfunction

• If the DLNA feature does not work properly, check your network settings.

• A 5-GHz access point is needed to view 1080p videos via DLNA. A 2.4-GHz access point may cause frequent buffering or other problems.

• DLNA may not work properly in the wireless network. It is recommended to connect to the wired network.

• When playing video in DLNA mode, Multi Audio and internal subtitles are not supported.

• If more than one Projector is connected to a single server in DLNA mode, the content may not play depending on server performance.

• Subtitles may not be supported depending on the DLNA device.

• DLNA feature may not work properly depending on the network environment.

• DLNA feature cannot be used with some access points that do not support multicasting. For more information, refer to the access point manual or consult the manufacturer.

• Supported file types may differ depending on DLNA server environment, even for file types supported by the Projector.

• Too many sub-folders and files in one folder may cause malfunction.

• The information about the file from the DLNA server may not be displayed correctly.

• When viewing video subtitles on a DLNA server, we recommend that you use SmartShare™ PC Software.

• If subtitle file is added later, turn off the shared folder and reset.

• DRM file located on a SmartShare PC Software server cannot be played.

CUSTOMIZING SETTINGS

SETTINGS

1 Press the **SETTINGS** button.

2 Use the $\wedge$, $\vee$, $<$, or $>$ button to select the desired item and press the **OK** button.

3 Use the $\wedge$, $\vee$, $<$, or $>$ button to set up the desired item and press the **OK** button.

4 Press the **EXIT** button when completed.

Menu	Description
PICTURE	Adjusts the image quality for optimal viewing.
SOUND	Adjusts the sound quality and volume level.
TIME	Sets the time and time-related features.
OPTION	Customizes the general settings.
NETWORK	Sets the network.
SUPPORT	Shows the projector information.

PICTURE Settings

1 Press the **SETTINGS** button.

2 Use the $\wedge$, $\vee$, $<$, or $>$ button to select **PICTURE** and press the **OK** button.

3 Use the $\wedge$, $\vee$, $<$, or $>$ button to set up the desired item and press the **OK** button.
- To return to the previous menu, press the ⅗ button.

The available picture settings are described as follows.

Item	Description	
Energy Saving	Reduces power consumption by adjusting screen brightness.	
	Mode	
	Minimum/ Medium/ Maximum	Applies the pre-set **Energy Saving** mode. - If **Energy Saving** is set to **Minimum** and the ambient temperature is 35 °C or higher, **Energy Saving** will be disabled.
Picture Mode	Selects the picture mode optimized for the viewing environment or the programme. You can also customize advanced options for each mode.	
	Mode	
	Vivid	Maximizes the visual effect of video. Heightens contrast, brightness and sharpness to display vivid images.
	Standard	Displays images in standard levels of contrast, brightness and sharpness.
	Cinema	Optimizes the image for a movie.
	Game	Optimizes the image for playing games on fast-moving screens.
	Expert1/2	Menu for adjusting picture quality that allows experts and amateurs to enjoy the best Projector viewing. - Expert mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.
Contrast	Adjusts the difference between bright and dark regions of the screen.	
Brightness	Adjusts the overall screen brightness.	
Sharpness	Adjusts the sharpness of the borders between bright and dark. Horizontal and Vertical Sharpness are available only in Expert1/2.	

Item	Description
Color	Adjusts the colours on the screen darker or lighter.
Tint	Adjusts the red/green colour balance.
Advanced Control	Customizes the advanced settings.
Picture Option	Sets optional settings.
Picture Reset	Resets values customized by the user. Each picture mode is reset. Select the picture mode you wish to reset.
Aspect Ratio	Resizes the picture.
Picture Wizard II	Use the remote control and follow the instructions of the Picture Wizard to calibrate and adjust for optimum picture quality without expensive pattern devices or help from a specialist. Follow the instructions to obtain the optimum picture quality.

Advanced Control

Item	Description	
Dynamic Contrast	Adjusts contrast and colour to the optimal level according to the screen's brightness.	
Dynamic Color	Adjusts colours for more natural-looking colours.	
Preferred Color	**Skin Color**	Skin colour spectrum can be separately set to implement the skin colour as defined by the user.
	Grass Color	Natural colour spectrum (meadows, hills, etc.) can be separately set.
	Sky Color	Sky colour is set separately.
Super Resolution	Provides a crystal-clear picture by improving the details in areas where the picture is blurry or unclear.	
Gamma	Sets the gradation curve according to the output of the picture signal in relation to the input signal.	

Expert Control

Item	Description
Dynamic Contrast	Adjusts contrast and colour to the optimal level according to the screen's brightness.
Super Resolution	Provides a crystal-clear picture by improving the details in areas where the picture is blurry or unclear.
Color Gamut	Selects the range of colours that can be expressed. • **Standard**: Displays the original colors of an input signal regardless of the display features. • **Wide**: Makes use of the display's rich colors.
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video.
xvYCC	Displays much richer colors.
Color Filter	Filters a specific colour spectrum in RGB colours to fine-tune colour saturation and hue accurately.
Gamma	Sets the gradation curve according to the output of the picture signal in relation to the input signal.

Item	Description
White Balance	Adjusts white balance. Detailed adjustment is possible as shown below.
	a. Method: 2 points - Pattern: Inner, Outer - Points: Low, High - Red/Green/Blue: Adjustable range -50 - +50. - Apply to all inputs: The values of the **White Balance** is applied to all the input modes. **b. Method: 20 point IRE** - Pattern: Inner, Outer - Institute of Radio Engineers (IRE) is the unit indicating the size of a video signal and can be set to 5, 10, 15, ... 100. You can fine-tune for each setting as shown below. - Red/Green/Blue: The adjustment range is -50 - +50. - Apply to all inputs: The values of the **White Balance** is applied to all the input modes.
Color Management System	Adjusts Red/Green/Blue/Cyan/Magenta/Yellow colors. Allows an expert to adjust the tint using a test pattern. Six colors (Red/Green/Blue/Cyan/Magenta/Yellow) can be selectively adjusted without affecting other colors. You may not see colors change on a normal picture even after adjustment. - Saturation Red/Green/Blue/Yellow/Cyan/Magenta, Tint Red/Green/Blue/Yellow/Cyan/Magenta, Luminance Red/Green/Blue/Yellow/Cyan/Magenta: The adjustment range is -30 - +30 each.

* Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

Picture Option

Item	Description
Noise Reduction	Reduces screen noise in the video.
MPEG Noise Reduction	Eliminates noise generated while creating digital picture signals.
Black Level	Adjusts the brightness or darkness of the screen to suit the black level of the picture input using the degree of darkness (black level) of the screen.
Real Cinema	Optimizes the screen for movie viewing.
TruMotion	Corrects images to display smoother motion sequences.
	Mode
	Smooth — De-Judder value is set to 3.
	Clear — De-Judder value is set to 7.
	User — De-Judder can be set manually. • **De-Judder**: This function adjusts juddering of the screen.
Color Temperature	Adjusts the overall color of the screen to suit your preference. You can select **Medium**, **Warm**, **Natural** or **Cool**.
Peak Mode	Adjusts the brightness to the optimal level for the image. - If the image is mostly white, the brightness level increases. If the image mainly consists of red/green/blue/blue green/magenta/ yellow colors, you may not see a change in brightness. - **Peak Mode** is only enabled when **Picture Mode** is set to **Vivid** and **Energy Saving** is set to **Minimum**. - If **Peak Mode** is enabled, **Energy Saving** and **Color Temperature** are disabled.

* If the video signal is 60 Hz, **TruMotion** may not work.

SOUND Settings

1 Press the **SETTINGS** button.

2 Use the ∧, ∨, <, or > button to select **SOUND** and press the **OK** button.

3 Use the ∧, ∨, <, or > button to set up the desired item and press the **OK** button.
   - To return to the previous menu, press the ↺ button.

	SOUND	✕
	• Smart Sound Mode	: Off
	• Sound Mode	: Standard
	• Virtual Surround Plus	: Off
	• Clear Voice II	: Off
	• Volume Mode	
	• Sound Out	: Projector Speaker
	• AV Sync. Adjust	: Off

The available sound settings are described as follows.

Item	Description	
Smart Sound Mode	Provides the optimized sound adjusted for each content type.	
	• If the **Smart Sound Mode** function is enabled, **Sound Mode**, **Virtual Surround Plus** and **Clear Voice II** are automatically adjusted.	
Sound Mode	Sets the sound mode.	
	Mode	
	Standard	Suitable for all types of video.
	Music/ Cinema/ Sport/ Game	Sets audio optimized for a specific genre.
	User Setting	Adjusts volume level. • **100 Hz/ 300 Hz/ 1 kHz/ 3 kHz/ 10 kHz**: Sets EQ by manual adjustment of sound bands. • **Reset**: Resets the equalizer value changed by the user.
Virtual Surround Plus	Provides realistic 5.1 channel stereo sound from two speakers.	
	• If **Clear Voice II** is set to **On**, **Virtual Surround plus** will not be chosen.	
Clear Voice II	Boosts voice clarity.	
Volume Mode	Sets various modes for volume control.	
	Mode	
	Auto Volume	Automatically adjusts the volume level.
	Volume Control	Using a single volume curve may result in an inaudible or loud sound depending on the environment. Adjusts volume levels depending on the time of day (day/night).

Item	Description	
Sound Out	Sets the audio output of the projector.	
	Mode	
	Projector Speaker	Sound is output through the Projector speaker.
	External Speaker (Optical/HDMI ARC)	Sound is output through the speaker connected to the optical port. SIMPLINK is supported. • **ARC Mode**: External audio devices can be connected via High-Speed HDMI® cable without an extra optical audio cable to output SPDIF. It interfaces with SIMPLINK. For an external device that supports ARC (Audio Return Channel), connect it to the **HDMI IN 1(ARC**) port. • **Digital Sound Out**: Sets up **Digital Sound Output**.
	LG Sound Sync (Optical)	Sound is output through an LG audio device connected to the **OPTICAL DIGITAL AUDIO OUT** port.
	LG Sound Sync (Wireless)	Sound is output through a wirelessly connected LG audio device.
	Headphone	Sound is output through headphones. • Headphones are detected and connected automatically when the projector is on.

Item	Description	
AV Sync. Adjust	Synchronizes video and audio directly when they do not match. If you set **AV Sync. Adjust** to **On**, you can adjust the sound output (Projector speakers or SPDIF) to the screen image.	
	Mode	
	Projector Speaker	Adjusts the synchronization of the sound from the projector's internal speakers. The **-** button makes the sound output faster and the **+** button slower than the default value.
	External Speaker	Adjusts how the sound is synced to external speakers, such as an external speaker connected to the digital audio output port, LG audio device and headphone. The + and - buttons allow the viewer to synchronize the audio with the video.
	Bypass	Sends the natural sound of external devices without any audio delay. Audio may be output before video as it takes time to process video input into the Projector.
Sound Option Setting	**Balance**: Adjusts left/right audio balance.	