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# NEO Series Digital Photo Frame With 8GB Storage Media Owner's Manual

Models: M123A-M, M153A, M153A-M

## ***Got a Question or Need Help?***

Email our technical support team at: [support@miccatron.com](mailto:support@miccatron.com) for personalized assistance with the setup and use of this product. Please visit our product information website [www.miccatron.com](http://www.miccatron.com) for the following:

- Firmware Updates
- User's Manuals
- Troubleshooting Wizard
- Technical Support Request

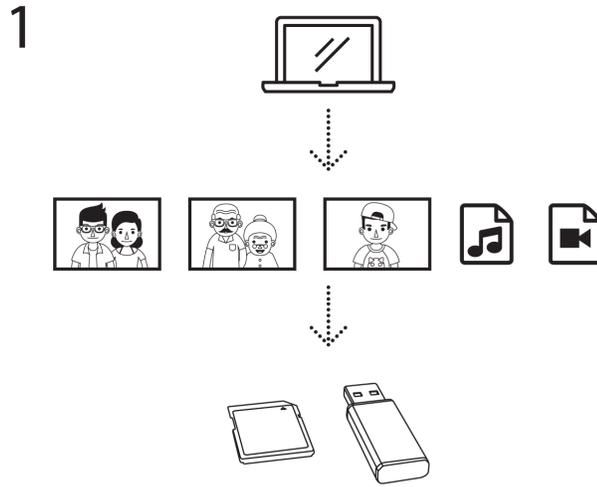
When contacting technical support, be sure to include your order information, product model, and serial number from the bottom of the player.

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permission for any purpose other than personal use.

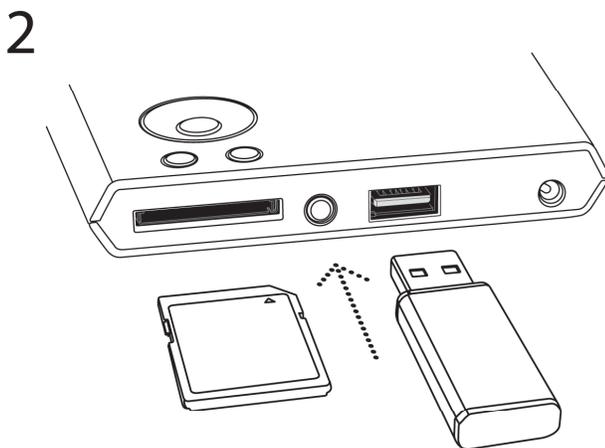


# Quick Start Guide

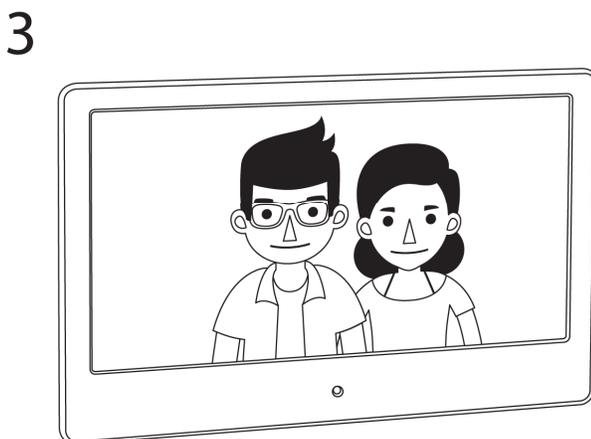
**Copy** photo, music, and video files onto an SD card or USB drive.



**Insert** SD card or USB drive into the photo frame.



**Turn on** the photo frame, the photo slideshow will automatically start.



**Enjoy!**

# 1 Introduction

## 1.1 Preface

Thank you for purchasing this digital photo frame. We hope you will enjoy using it to view your treasured photos. This photo frame has the following features:

### 1.1.1 Highlights

- High resolution wide view-angle LCD screen with vibrant colors
- Natural-view 4:3 screen ratio displays photos with minimal cropping
- Instant-on motion sensor for automatic on/off control (M123A-M and M153A-M Only)
- Displays JPG photos with EXIF rotation support
- Shows 720p high definition videos (subject to format limitations)
- Plays MP3 music through built-in speaker or headphone output

### 1.1.2 Features

- Displays JPG image/photo files as slideshow in random or sequential order
- Plays MP3 music files as background music
- Supports MKV, MP4, MOV, and AVI video with MPEG4 or H.264/AVC encoding up to 1280x720 HD resolution
- Compact IR remote control
- USB 2.0 host connector supports USB flash drives with FAT32 file system
- Flash media card reader supports SD/SDHC cards up to 32GB
- Automatic photo slideshow, music, or video playback
- Auto power on/off feature with flexible scheduling
- Adjustable slideshow sequence, speed, and transition effects
- Clock and calendar with slideshow
- Adjustable screen brightness, contrast, and saturation
- Multiple language support: English, French, Italian, German, Spanish

**Note:** All the information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device's software may have a slightly different appearance or modified functionality than presented in this manual.

## 2 Precautions

### 2.1 Precautions and Maintenance

- This product is intended for residential indoor use only. It is not intended for outdoors use, or use in harsh environments, or demanding commercial use.
- To avoid risk of fire or electric shock, do not expose the unit to moisture or condensation.
- To avoid overheating, do not block the ventilation holes on the digital photo frame.
- Keep the digital photo frame away from direct sunlight.
- Turn off the player and disconnect from AC power if not used for a while.
- Do not disassemble the digital photo frame. There is a risk of electric shock and there are no user-serviceable parts inside. Disassembling the digital photo frame will void its warranty.

### 2.2 Cleaning the LCD Screen

- Treat the screen gently and carefully. The screen of the digital photo frame has a glass component that can be damaged or broken when impacted.
- Use a soft, non-abrasive lint-free cloth such as microfiber camera lens cloth to gently wipe the LCD screen if fingerprints or dust accumulate on the LCD screen. If necessary, use a cleaning solution that's safe for coated camera photo lens cleaning. Spray the cleaning solution onto the cleaning cloth. **NEVER SPRAY CLEANING SOLUTION DIRECTLY ONTO THE LCD SCREEN.**

### 2.3 FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

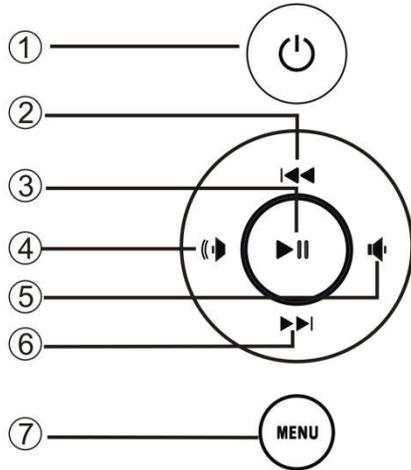
- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### **WARNING:**

Please power off the unit before inserting or removing a memory card or USB drive. Do not put the unit near water or a high-moisture environment to prevent the risk of electric shock.

## 3 Connections and Buttons

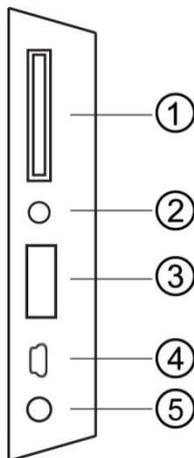
### 3.1 Buttons



1. Power
2. Up/Previous
3. OK/Play/Pause
4. Right/Volume+
5. Left /Volume-
6. Down/Next
7. Menu (Long Press) or Return (Short Press)

**Note:** The left and right buttons are named in accordance of their function when the user is looking at the front of the photo frame. Thus, pressing the “Left” button will move the cursor to the left and the “Right” button will move the cursor to the right.

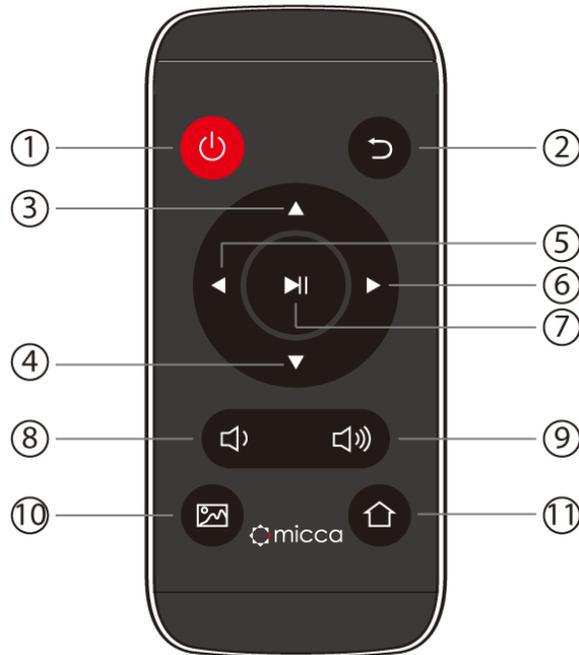
### 3.2 Connections



1. SD/SDHC Card Reader
2. Headphone Output
3. USB 2.0 Port
4. Mini USB Port (Optional)
5. DC Power Input

**Note:** Only use the AC adapter that is provided with the digital photo frame. Using a different AC adapter may damage the unit. The Mini USB port is optional and may not be present.

### 3.3 Remote Control



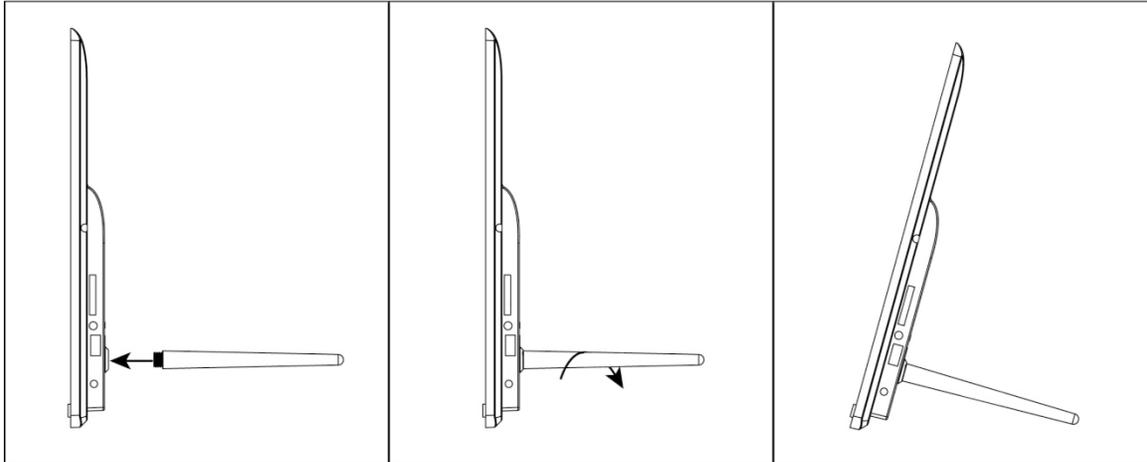
To replace the remote battery, place the remote face down, push the small tab to the right and then pull the battery tray out. Place one CR2025 lithium button-cell battery on the tray with the positive “+” side facing you. Reinsert the tray.

#	Key	Function
1	Power	Turn the photo frame on or off
2	Return	Go back to the previous step or screen
3	Up	Move cursor up, highlight previous item
4	Down	Move cursor down, highlight next item
5	Left	Move cursor left. Additional functionality for photo, music, and video playback. See subsequent sections of this manual.
6	Right	Move cursor right. Additional functionality for photo, music, and video playback. See subsequent sections of this manual.
7	OK/Play/Pause	Confirm selection. Play or pause photo slideshow, music, or video playback
8	Volume-	Decrease the volume during music or video playback
9	Volume+	Increase the volume during music or video playback
10	Slideshow	Start a slideshow with background music (background music must be enabled in the settings menu)
11	Home	Go to the home screen main menu

## 4 Getting Started

### 4.1 Initial Setup

Find a flat and stable surface to place the photo frame. Install the prop-stand by inserting it into the mounting hole on the back of the photo frame.



Plug the AC adapter into a standard 110V AC or 240V AC electrical outlet and connect it to the DC Power Input on the photo frame. The photo frame should automatically turn on and display the main menu.

- Carefully remove the protective film covering the LCD.
- Remove the plastic battery insulator from the battery compartment and make sure the remote control has a battery inside.

Your digital photo frame is now ready for use.

### 4.2 Basic Usage

The photo frame is very easy to use. It is pre-configured from the factory with default settings that are already optimized for most users. Simply copy your favorite photos onto an SD card or USB drive using a computer. Insert the SD card or USB drive into the photo frame, turn the photo frame on, and the photos will automatically begin displaying.

The factory default setting for displaying photos is to crop the image to fit the screen and in random order with a 15-second interval. Please refer to the settings section for information on how to change these and other settings.

## 5 Operating Instructions

After turning on the photo frame, the main menu will display after a few seconds. If there is a flash memory card or USB flash drive inserted into the photo frame, a slideshow will automatically begin plain. To get back to the main menu, press the “Menu” button on the remote control, or press and hold the “Return” button on the back of the photo frame.



The main menu contains icons for Photos, Music, Videos, File Operations, Calendar, and Setup. These provide the following functionality:

<b>Menu Item</b>	<b>Description</b>
<i>Photos</i>	Start viewing photo slideshow, or browse photo thumbnails
<i>Music</i>	Browse and play music files
<i>Videos</i>	Browse and play video files
<i>File Operations</i>	Browse folders on the SD card or USB drive. All compatible photos, music, and video files will be listed together.
<i>Calendar</i>	Display calendar and clock. A small slideshow window will also be shown.
<i>Setup</i>	Adjust photo frame settings.

### 5.1 Flash Memory Cards and USB Flash Drives

The photo frame does not have any internal storage and must be used with a SD card or USB drive. When more than one storage device is inserted into the digital photo frame, it is necessary to select which storage device to display photo, music, or video files from. The photo frame will only read files from the selected storage device.

To switch between storage devices, press the “Return” button repeatedly until the storage selection screen is shown. Highlight the desired storage device and press the “OK/Play/Pause” button to select it.



## 5.2 Viewing Photos

When a storage device loaded with photos is inserted, the digital photo frame will automatically start displaying a photo slideshow. The user can also manually start a slideshow using the “Photo” icon from the main menu, or by pressing the “BGM” button on the remote control. If there are any MP3 music files on the storage device, they will be played as background music.



### 5.2.1 Photo Display Ratio

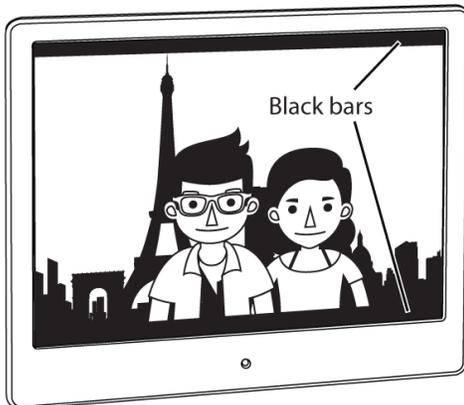
The photo frame provides three photo display ratios of Optimal (default), Full Screen, and Auto Fit. For instructions on how to change the display ratio, see **Section 6.1**. Following are visual illustrations of the effects of each display ratio on photos with Landscape and Portrait orientation.



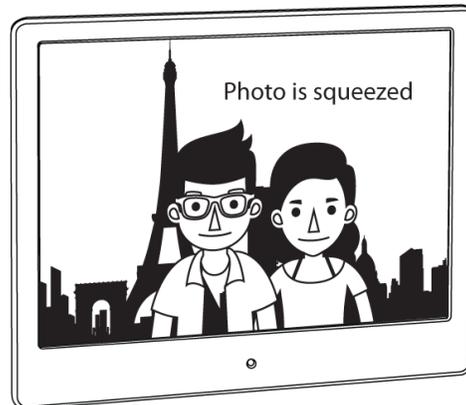
Original Photo - Landscape



Optimal Mode (Default)



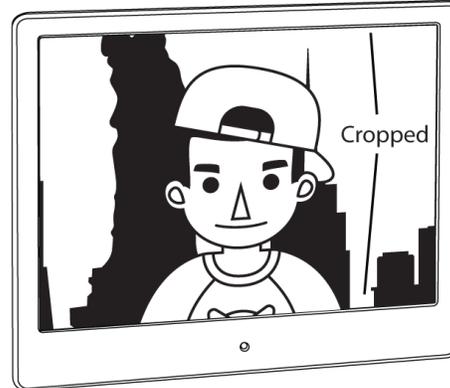
Auto Fit Mode



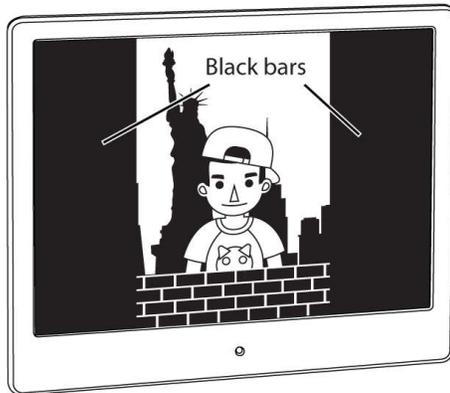
Full Screen Mode



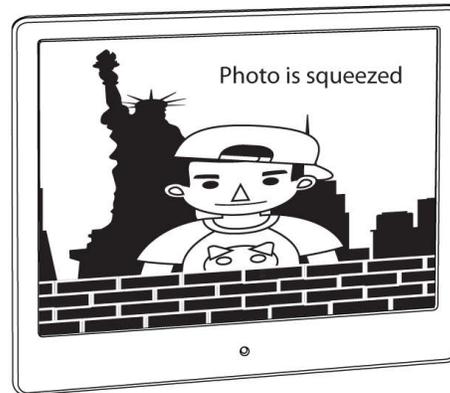
Original Photo - Portrait



Optimal Mode (Default)



Auto Fit Mode



Full Screen Mode

**Display Mode**

**Description**

<i>Optimal (Default)</i>	Photos that are wider or taller than the screen will be cropped to fit. Works well for most photos except for certain portrait photos where too much of the photo may be cut out.
<i>Auto Fit</i>	Photos are displayed without cropping. Black bars are added on the top/bottom or sides as needed. Works best if there are many portrait style photos in the slideshow.
<i>Full Screen</i>	Photos are stretched to fit the screen. Use this mode only if all photos are approximately the same aspect ratio as the screen.

## 5.2.2 Photo Slideshow Controls

When viewing photos, the following operations are available using the remote control or buttons on the back of the photo frame:

<b>Remote Buttons</b>	<b>Description</b>
<i>Return</i>	Stop the slideshow and view photo thumbnails
<i>Up</i>	Previous song, if background music is playing.
<i>Down</i>	Next song, if background music is playing.
<i>Left</i>	Go to previous photo. In random mode, go to a random photo.
<i>Right</i>	Go to the next photo. In random mode, go to a random photo.
<i>OK/Play/Pause</i>	Play or pause the photo slideshow
<i>Volume-</i>	Decrease background music volume
<i>Volume+</i>	Increase background music volume
<i>Slideshow</i>	First pause the slideshow, then long press the "Slideshow" button to open the context menu for additional slideshow settings.

<b>Rear Buttons</b>	<b>Description</b>
<i>OK/Play/Pause</i>	Play or pause the photo slideshow
<i>Left/Volume-</i>	Decrease background music volume
<i>Right/Volume+</i>	Increase background music volume
<i>Up/Previous</i>	Go to previous photo. In random mode, go to a random photo.
<i>Down/Next</i>	Go to the next photo. In random mode, go to a random photo.
<i>Menu/Return</i>	Stop the slideshow and view photo thumbnails

## 5.3 Playing Music

To use the music player function, select the “Music” icon from the main menu. All supported music files found on the storage device will be displayed in one list. Only MP3 music files with an “mp3” file extension are supported. Scroll to the desired music file and press the “OK/Play/Pause” button to begin playing.



When playing music, the following operations are available using the remote control or buttons on the back of the photo frame:

<b>Remote Buttons</b>	<b>Description</b>
<i>Return</i>	Stop the playback and return to the main menu
<i>Up</i>	Highlight previous song
<i>Down</i>	Highlight next song
<i>Left</i>	Rewind
<i>Right</i>	Fast Forward
<i>OK/Play/Pause</i>	Play or pause the highlighted song
<i>Volume-</i>	Decrease music volume
<i>Volume+</i>	Increase music volume
<i>Slideshow</i>	Long press the “Slideshow” button to open the context menu for additional music playback settings.

<b>Rear Buttons</b>	<b>Description</b>
<i>OK/Play/Pause</i>	Play or pause the highlighted song
<i>Left/Volume-</i>	Decrease music volume
<i>Right/Volume+</i>	Increase music volume
<i>Up/Previous</i>	Highlight previous song
<i>Down/Next</i>	Highlight next song
<i>Menu/Return</i>	Stop the playback and return to the main menu

## 5.4 Playing Videos

To use the video player function, select the “Video” icon from the main menu. All supported video files found on the storage device will be displayed in one list. Scroll to the desired video and press the “OK/Play/Pause” button to begin playing. The photo frame supports a variety of video types and formats. If your video file does not play, it’s likely that it is not one of the supported formats below:

<b>Video File</b>	<b>Resolution</b>	<b>Video Codec</b>	<b>Audio Codec</b>
<i>AVI</i>	1280x720 Max	MPEG4, H.264	MP3, AAC, PCM
<i>MKV</i>	1280x720 Max	MPEG4, H.264	MP3, AAC, PCM
<i>MOV</i>	1280x720 Max	MPEG4, H.264	MP3, AAC
<i>MP4</i>	1280x720 Max	MPEG4, H.264	MP3, AAC

If you have a video file that does not play and would like help, please contact our support team at [support@miccatron.com](mailto:support@miccatron.com). We will provide troubleshooting help and tutorials on how to make the video playable.

When playing videos, the following operations are available using the remote control or buttons on the back of the photo frame:

<b>Remote Buttons</b>	<b>Description</b>
<i>Return</i>	Stop the playback and return to the video selection screen
<i>Up/Down</i>	No function
<i>Left</i>	Go to start of current video. Double-press to play previous video. Press and hold to rewind current video.
<i>Right</i>	Play next video. Press and hold to fast forward current video.
<i>OK/Play/Pause</i>	Play or pause the current video
<i>Volume-</i>	Decrease video volume
<i>Volume+</i>	Increase video volume
<i>Slideshow</i>	Long press the “Slideshow” button to open the context menu for additional video playback settings.

<b>Rear Buttons</b>	<b>Description</b>
<i>OK/Play/Pause</i>	Play or pause the current video
<i>Left/Volume-</i>	Decrease video volume
<i>Right/Volume+</i>	Increase video volume
<i>Up/Previous</i>	Go to start of current video. Double-press to play previous video. Press and hold to rewind current video.
<i>Down/Next</i>	Play next video. Press and hold to fast forward current video.
<i>Menu/Return</i>	Stop the playback and return to the main menu.

## 5.5 File Browsing

The “File” icon from the main menu lets users browse the contents of the selected storage device by navigating its folder directory structure. All compatible photo, music, and video file types will be displayed while incompatible file types are not displayed.

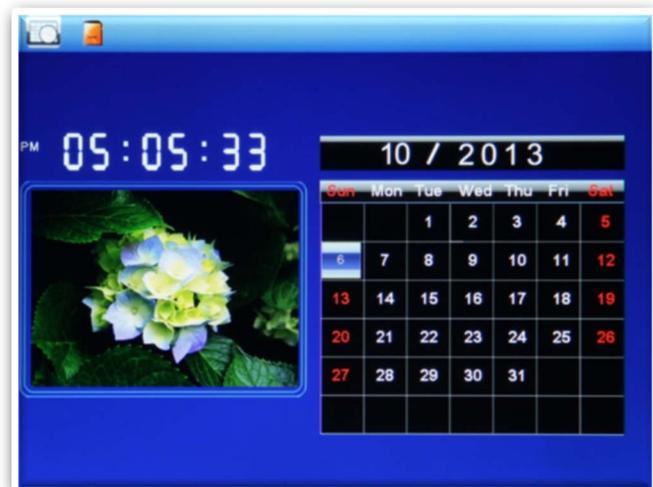
The file browser can be a convenient way to view specific groups of photos that have been organized together in a folder. When a slideshow is started from within a folder, only photos in the same folder will be displayed as part of the slideshow.



## 5.6 Calendar

To view the calendar, select the “Calendar” icon from the main menu. Be sure to properly set the date and time in the settings menu so that the information displayed is correct. The photo frame will automatically begin playing a slideshow using photos found on the selected storage device.

In addition to basic calendar display, the photo frame also has auto power on/off and alarm functions. Please refer to **Section 6.2** for instructions on how to configure the alarm, and **Section 6.5** for auto power on/off settings.



## 5.7 Motion Sensor (M123A-M and M153A-M Only)

The photo frame is equipped with an infrared motion sensor and will automatically turn on when nearby motion is detected, and turn off when the timer expires without nearby motion. The unique instant-on capability resumes slideshow, music, or video playback within 1 second of motion detection. The sensor is located on the lower left hand corner of the photo frame and should not be blocked by any objects including transparent glass.

### 5.7.1 Motion Sensor Settings

By default the motion sensor timer is enabled and set to 30 minutes. The timer can be changed to a more suitable value in the settings menu, or disabled completely. Please see **Section 6.5** for motion sensor setting options.

### 5.7.2 Motion Sensor Override

When the motion sensor is enabled, using the remote control to turn off the photo frame will cause the photo frame to remain off even when there is nearby motion. This is useful as a temporary override for when you do not want the photo frame to turn on due to motion. To resume normal operations, use the remote to turn the photo frame on.

### 5.7.3 Motion Sensor Range

The range of the motion sensor is approximately 15 feet depending on other environmental variables. The trigger angle is approximately 45 degrees to either side of the center line.



## 6 Detailed Settings

To access the setup menu of the photo frame select the “Setup” icon from the main menu. The Setup menu contains five sections, use the “Up” and “Down” buttons to highlight a configuration section and press “OK/Play/Pause” to select it. Within a configuration section, use the “Up” and “Down” buttons to select a settings item, and then use the “Left” and “Right” buttons to change the setting value. Press the “Return” button to exit the settings menu when finished.



### 6.1 Photo Setup

**Icon Action** - Sets the behavior when selecting the “Photo” icon from the main menu.

<i>Setting</i>	<i>Description</i>
<i>Slideshow</i>	Begins displaying slideshow with all photos found on the currently selected storage device.
<i>Thumbnail</i>	Displays thumbnail view of photo files and folders.

**Background Music** - Enable or disable background music when viewing photo slideshows.

Available Values: *On, Off*

**Display Ratio** - Adjust the way photos are displayed when they do not perfectly fit the photo frame screen.

<i>Setting</i>	<i>Description</i>
<i>Optimal</i>	Photos that are wider or taller than the screen will be cropped to fit. Works well for most photos except for certain portrait photos where too much of the photo may be cut out.
<i>Auto Fit</i>	Photos are displayed without cropping. Black bars are added on the top/bottom or sides as needed. Works best if there are many portrait style photos in the slideshow.
<i>Full Screen</i>	Photos are stretched to fit the screen. Use this mode only if all photos are approximately the same aspect ratio as the screen.

**Slideshow Interval** - Set the time interval between each photo in a slideshow.

Available Values: 3/5/15/30 Seconds, 1/5/15/30 Minutes, 1 Hour

**Slideshow Repeat** - Configure whether the slide show repeats continuously, or stop after playing once.

Available Values: *Repeat, No Repeat*

**Slideshow Order** - Change the photo playback sequence in a slideshow.

<i>Setting</i>	<i>Description</i>
<i>Sequential</i>	Photos will be displayed in alpha-numerical sequence based on file name.
<i>Random</i>	Photos will be displayed in random sequence.

**Transition Effect** - Set the transition effect between photos in a slideshow.

Available Values: *Random (default), and a selection of various transition effects.*

## 6.2 Calendar Setup

**Set Date** - Set the current date in the format of “[Year]-[Month]-[Day]”. Highlight item and press “OK/Play/Pause” to begin. Use the “Up” and “Down” buttons to switch between fields, and the “Left”, and “Right” buttons to change date field values. Press “OK/Play/Pause” when finished to save change.

**Set Time Format** – Select between 12-hour or 24-hour time format.

Available Values: *12-Hour, 24-Hour*

**Set Time** - Set the current time in the format of “[Hour]:[Minute]”. Highlight item and press “OK/Play/Pause” to begin. Use the “Up” and “Down” buttons to switch between fields, and the “Left”, and “Right” buttons to change time field values. Press “OK/Play/Pause” when finished to save change.

**Alarm Status** - Enable or disable the alarm function

Available Settings: *Enabled, Disabled*

**Alarm Time** - Set the alarm time in the format of “[Hour]:[Minute]”. Highlight item and press “OK/Play/Pause” to begin. Use the “Up” and “Down” buttons to switch between fields, and the “Left”, and “Right” buttons to change time field values. Press “OK/Play/Pause” when finished to save change.

**Alarm Schedule** – Configure the days on which the alarm will be enabled.

<i>Setting</i>	<i>Description</i>
<i>Once</i>	Alarm is active only once.
<i>Daily</i>	Alarm is active every day.
<i>Weekdays</i>	Alarm is active Monday through Friday only
<i>Weekend</i>	Alarm is active on Saturday and Sunday only

## 6.3 Video Setup

**Display Mode** - Adjust the way videos are displayed when they do not perfectly fit the photo frame screen.

<i>Setting</i>	<i>Description</i>
<i>Optimal</i>	The video will be displayed in the original ratio, scaled to fit the screen. Black bars will be added to the top and bottom.
<i>Full Screen</i>	The video will be stretched or squeezed to fit the full screen.

**Playback Mode** - Change the video playback sequence.

<i>Setting</i>	<i>Description</i>
<i>Repeat All</i>	Videos will be looped continuously in alpha-numerical sequence based on file name.
<i>Random</i>	Videos will be played once in random sequence.
<i>Random Repeat</i>	Videos will be played continuously in random sequence.
<i>Sequential</i>	Videos will be played once in alpha-numerical sequence based on file name.
<i>Repeat One</i>	A single video will played continuously.

## 6.4 Music Setup

**Playback Mode** - Change the music playback sequence.

<i>Setting</i>	<i>Description</i>
<i>Repeat All</i>	Music files will be looped continuously in alpha-numerical sequence based on file name.
<i>Random</i>	Music files will be played once in random sequence.
<i>Random Repeat</i>	Music files will be played continuously in random sequence.
<i>Sequential</i>	Music files will be played once in alpha-numerical sequence based on file name.
<i>Repeat One</i>	A single Music files will played continuously.

**Show Spectrum** – Enable or disable spectrum display during music playback.

Available Values: *Enable, Disable*

## 6.5 System Setup

**Language** - Set the operating language.

Available Values: *English, French, Italian, German, Spanish*

**Start Up Mode** - Set the operation mode of the photo frame when it is turned on.

<i>Setting</i>	<i>Description</i>
<i>Photo &amp; Music</i>	Play a photo slideshow with background music
<i>Photos</i>	Play a photo slideshow without background music
<i>Music</i>	Play music files.
<i>Videos</i>	Play video files.
<i>Calendar</i>	Display the calendar with inset slideshow
<i>Off</i>	Display the main menu

**Brightness, Contrast, Saturation, Hue** - Configure the display parameters for the LCD screen. The default values are optimal for most conditions.

**Auto Power On** - Enable or disable the automatic power on functionality.

Available Settings: *Enable, Disable*

**Auto On Time** - Set the auto power on time in the format of “[Hour]:[Minute]”. Highlight item and press “OK/Play/Pause” to begin. Use the “Up” and “Down” buttons to switch between fields, and the “Left”, and “Right” buttons to change time field values. Press “OK/Play/Pause” when finished to save change.

**Auto Power Off** - Enable or disable the automatic power off functionality.

Available Settings: *Enable, Disable*

**Auto Off Time** - Set the auto power off time in the format of “[Hour]:[Minute]”. Highlight item and press “OK/Play/Pause” to begin. Use the “Up” and “Down” buttons to switch between fields, and the “Left”, and “Right” buttons to change time field values. Press “OK/Play/Pause” when finished to save change.

**Auto-Power Frequency** – Configure the days on which the auto power on/off feature will be enabled.

<i>Setting</i>	<i>Description</i>
<i>Once</i>	Alarm is active only once.
<i>Daily</i>	Alarm is active every day.
<i>Weekdays</i>	Alarm is active Monday through Friday only
<i>Weekend</i>	Alarm is active on Saturday and Sunday only

**Sleep** – Set the sleep timer. The photo frame will automatically power off after being on for the configured amount of time.

Available Settings: *Off, 1/2/4/8/12 Hours*

**No Activity Standby** - Set the timer where the photo frame will automatically power off if no media files are being played and no user input is detected for the configured amount of time.

Available Settings: *Off, 15 Minutes*

**Motion Sensor (M123A-M and M153A-M Only)** - Enable or disable the motion sensor

Available Settings: *Enable, Disable*

**Motion Sensor Timer (M123A-M and M153A-M Only)** – Set the motion sensor timer. The photo frame will automatically power off after being on for the configured amount of time without detecting any motion.

Available Settings: *1/3/5/15/30 Minutes, 1/2/3 Hours*

**Reset Settings** - Reset all settings back to factory defaults.

**Version** - Display the current firmware version. This information is important for determining if a firmware update is available.

**System Upgrade** - Upgrade the photo frame firmware. If newer firmware is available, it can be downloaded from our support website [www.miccatron.com](http://www.miccatron.com). Detailed instructions for its installation will be provided along with the firmware update.

## 7 Troubleshooting Guide

### Cannot Read a SD/SDHC Card or USB Drive

The photo frame supports SD/SDHC and USB flash drives up to 32GB in size, using FAT or FAT32 file system. Check to be sure that the SD card or USB drive meets these requirements.

If the photo frame reports errors reading a storage device, it may be necessary to reformat it using a computer. Be sure to copy photos off the storage device before reformatting, as reformatting will permanently erase all contents. Select FAT32 as the file system when reformatting the drive.

### Photos are Displayed Sideways

The photo frame displays photos based on the EXIF rotation flag. If no rotation flag is set, the photo frame will display the photo without any rotation applied.

Depending on how the photo was taken, the camera may or may not have placed a rotation flag to indicate the correct display rotation. If a photo is displayed with incorrect rotation, this means the rotation flag for the photo is not correctly set. To fix this, please use a computer to permanently rotate the photo. All modern operating systems including Windows, MacOS, and Linux have easy to use utilities for permanently rotating photos.

While the photo frame has a “rotate” feature, it is only used for momentary adjustment while displaying the photo; the rotation change will not be saved.

### Cannot Play a Video File

The photo frame is compatible with the following video file types:

<b>Video File</b>	<b>Resolution</b>	<b>Video Codec</b>	<b>Audio Codec</b>
<i>AVI</i>	1280x720 Max	MPEG4, H.264	MP3, AAC, PCM
<i>MKV</i>	1280x720 Max	MPEG4, H.264	MP3, AAC, PCM
<i>MOV</i>	1280x720 Max	MPEG4, H.264	MP3, AAC
<i>MP4</i>	1280x720 Max	MPEG4, H.264	MP3, AAC

If a video does not play, it most likely does not satisfy the above limitations. If you have a video file that does not play and would like help, please contact our support team at [support@miccatron.com](mailto:support@miccatron.com). We will provide troubleshooting help and tutorials on how to make the video playable.

## 8 Specifications

**Adapter:** Input 100-240V 50/60Hz AC, Output 9V/1.5A DC

**Card Reader:** SD/SDHC Up to 32GB

**USB:** USB flash drives up to 32GB

**Photo Format:** JPG

**Music Format:** MP3 up to 320kbps

**Video Format:** MKV, MP4, MOV, and AVI with MPEG4 or H.264/AVC video, up to 720p

**LCD Screen:**

	<i>M123A-M</i>	<i>M153A, M153A-M</i>
<i>Size</i>	12.1-Inch TFT	15-Inch TFT
<i>Resolution</i>	800x600	1024x728
<i>Aspect Ratio</i>	4:3	
<i>Brightness</i>	200-300cd/m2	
<i>Contrast</i>	400-500:1	
<i>Response Time</i>	20ms	



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