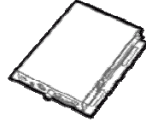


MVP-2100
User's Manual

January 2009

1. Introduction to the Compact Flash Media Player



The MVP-2100 is an industrial-grade playback system engineered for professional digital signage use. In addition to 100% solid-state reliability, the player offers flexible scheduling features unmatched by DVD player solutions.

1.1. Essential digital signage software included



The included Signage Manager Express software lets you easily program your MVP-2100 for playback at specific times throughout the week. This PC application is designed to deliver dynamic DVD-quality videos, photos, and PowerPoint slides (stills) for public viewing with minimal effort. For details on advanced management features such as day-parting and content distribution, please see the Signage Manager Express Software User's Manual.

1.2. CF card content updating for stand-alone operation

CF Card

The MVP-2100 uses a removable CF card to reliably transfer your contents without complex network wiring and configuration. A built-in clock plays your programs at the scheduled times throughout the week.

1.3. Package Contents



MVP-2100



AC Power Adapter
5V DC output



CF card slot
protective plate
and screw



Signage Manager
Express CD



Audio Adapter Cable:
RCA to 3.5 mm



Audio Cable:
3.5 mm to 3.5 mm



Quick Start Guide

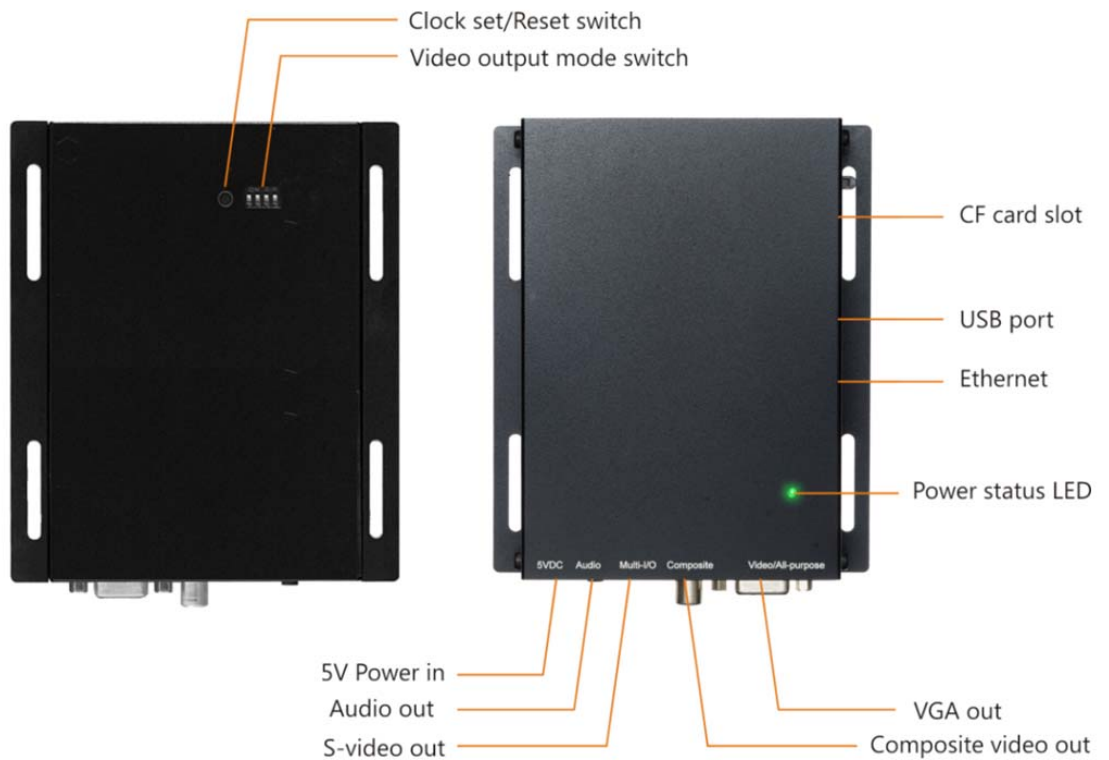


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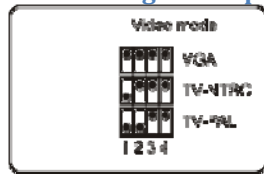
A Compact Flash (CF) card is required, available separately. A 4GB card holds approx. 180 minutes of video content.

2. 2. Initial Setup

2.1. Physical Features



2.2. Setting the display output mode

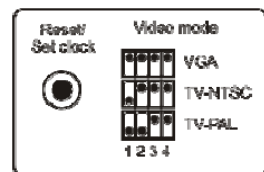


Set the Video mode using the DIP switches on the back side of the unit. Switch positions per video mode are provided on the product label. For **traditional TV**: set to PAL or NTSC, depending on your region. For LCD TV, Plasma, computer monitors, and projectors: set to VGA.

2.3. Setting the clock

The clock settings run on built-in battery for up to several years, but initially you will need to set it to your time zone for properly scheduled playback.

After powering on both the player and the display, "PLEASE WAIT..." appears on the screen for 10 seconds. After video appears on screen, set the clock by pressing and holding the RESET/SET CLOCK button. You will see the following on screen display:



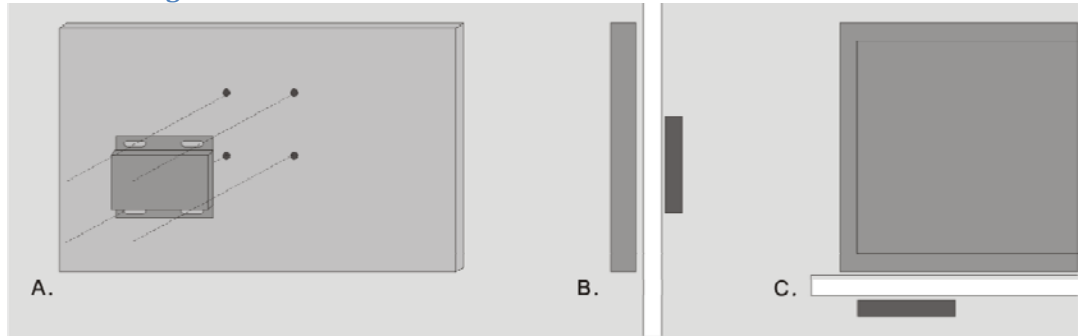
YYYY/MM/DDYYYY/MM/DD - hh:mm:ss

Press RESET/SET CLOCK button BRIEFLY to increase each number or hold button to advance to the next digit.

The clock settings run on built-in battery for up to several years, unaffected by power loss and system restarts.

REMINDER: You should set the clock before you physically mount the player or keep the button accessible.

2.4. Planning hardware installation



The player enclosure features VESA-compliant screw-slots for convenient attachment:

- A. directly behind self-standing monitors using the standard VESA mounting
- B. inside partition walls
- C. below counters

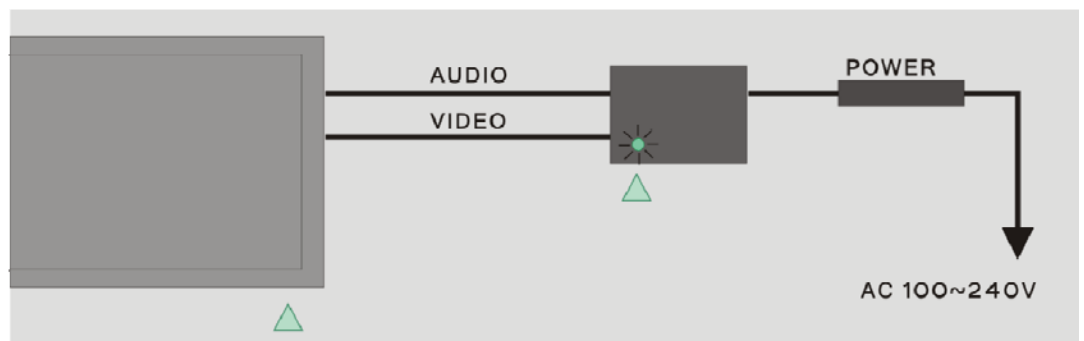
Notes on security features

The **Reset/Set clock button** and **Video mode switches** are located on the player's back panel to avoid tampering. You can cover both panels by fixing the player to a flat surface to lock settings.

You can prevent the player's CF card from being removed from its slot. Locking the CF card inside the player with the bundled **CF protective plate and screw set** discourages unauthorized removal.

2.5. Connecting power and signal cables

Connect the player to a screen and a computer using the supplied cables and adapter.



Connect the media player to a screen and AC power as shown above.

Turn on your display monitor and switch it to the corresponding video mode: VGA (sometimes referred to as "RGB"), S-video, or Composite.

When you see the player's on screen display, the set up process is complete.

3. Managing player contents with Signage Manager Express

Once you have set up your signage player and display system, you are ready to load content into the player for playback on a schedule.

3.1. Management options using Signage Manager Express

You have the following playback options when using Signage Manager Express:

Looping playback

You can select files, re-order them, and export to CF card for auto-repeating playback.

Weekly schedule playback

This mode plays specific files at specific times of the week.

Please refer to the **Signage Manager Express User's Manual** on content scheduling and publishing functions of your MVP-2100 Media Player.

3.2. Synchronize playlists using the removable CF card

You can remove the CF card from your player and synchronize it at your computer using a card reader. Reinsert the card to your player to begin playing the new playlist.

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4. Specifications table

Video codec support	MPEG 1 MP@ML 480P MPG MPEG 2 MP@ML 480P MPG MPEG 4 ASP@L2 480P AVI
Image codec support	JPEG 640x480
Management options	Signage Manager Express
I/O ports	VGA out S-Video out Composite out 3.5mm stereo audio jack CF card slot
Local storage	CF card required, not supplied (a 4GB card holds approx. 180 minutes of video @3Mbps)
Power requirements	AC Power adapter output: 5V, 2A DC Power consumption: 10W max, 5W avg.
Environmental	Operating Temperature: 0 to 40deg C Humidity: 5-85%RH @40deg C
Dimensions	133.5 x113.5 x25 (mm) (excluding projections) 5.3 x4.4 x1 (inches) (excluding projections)
Weight	1.1 lbs. 0.5kg

5. Appendix: Troubleshooting and FAQ

Do CF card speed ratings affect playback performance?

No, the CF card speed won't have a significant impact on device playback. Standard definition videos (480p) play at relatively low data rates, typically 3 Mbps, therefore a standard speed CF card should be sufficient.

Is there limitation on CF card size?

The CF/Network Media Player accepts CF cards up to 32GB in capacity. However, since an 8GB CF card can play up to 6 hrs, a 4GB CF card should be enough for most situations.

What is maximum file size for a single video file?

For CF/Network Media Player, the maximum video file size is 1GB. We recommend reserving a safety margin to avoid exceeding the limit (i.e. limiting files to 990MB for CF/Network Media Player).

How to restore device back to factory default?

1. Disconnect all power.
2. Press and hold reset button at the back of device.
3. Power on device and release the button until "Reset" appears on screen.

How do I manage playback of my contents?

Playback on a schedule is one of the main functions of your CF Media Player. It is managed via the easy to use Signage Manager Express software.

Unlike the difficulty of programming our VCRs from a remote control, the Signage Manager Express software is designed to be simple by leveraging the power of your personal computer. Anyone with basic computer skills can quickly create or modify schedules, delivering the right message to the right audience at the right times. Please refer to the Signage Manager Express User's Manual for detailed operations and techniques.

Could the player display Flash or Microsoft PowerPoint presentations?

The player features limited PowerPoint support, but not Flash support.

While PCs can play many formats with varying degrees of success, RISC-based media players are designed to play a limited number of high quality video formats (Please see spec for details). While Microsoft PowerPoint native files could not play directly on a RISC-based player, the file is converted thru other software (i.e. Signage Manager Express) into an image format to be played as an image slideshow.

Why won't some media files play smoothly?

The video data bit-rate may be higher than the recommended bit rate of 3~5 Mbps.

The video data bit-rate is the amount of video or audio data used per second to store or play the contents, usually expressed in Mbps (mega-bits per second). Video encoded with extremely high bit-rates will not playback smoothly in the media player, likely due to storage i/o bottlenecks. You can try recompressing unplayable video files at lower bit rates using the free and open source Handbrake tool at <http://handbrake.fr/>. Once you have found the right output settings for size and quality, save them in Handbrake **profiles** for future use. Then you can easily recompress any unplayable files you encounter in the future.

Why won't some media files play at all?

Even though the player fully supports industry-standard video formats, sometimes the videos, depending on the compression settings, may fall outside the compatibility matrix.

If the files can play on your PC but not on your player, you should **recompress** the file to ensure playback. For greatest compatibility, we recommend outputting to the MPEG2 format (3 to 5 Mbps bit-rate). You can recompress unplayable video files with recommended file formats and bit rates using the free and open source Handbrake tool at <http://handbrake.fr/>. Once you have found the

right output settings for size and quality, save them in Handbrake **profiles** for future use. Then you can easily recompress any unplayable files you encounter in the future.

The media playback looks different on a PC compared to the media player's screen. (Wrong aspect ratio)

There are 2 major aspect ratios (width-to-height ratios) for video content, but many kinds of displays. If you play 4:3 video on a 16:9 display (or vice versa), a circle becomes oval, and the picture takes on a squeezed or stretched look. To avoid this distorted look, adding black bars are a common technique.

MVP-2100 Media Player plays output the video to the full extents of your display. If you wish to correct the distortion this introduces, you need to add black bars into the video file itself, using a video editing program such as Windows Movie Maker, which is included free with Windows XP or Vista OS. Refer to the Windows Movie Maker help system and search for the keywords "aspect ratio."

Some JPEG images cannot play on media player.

Progressive JPEG are not supported. Please convert to baseline JPEG for maximum compatibility.

JPEG images can be either of 2 types: baseline or progressive compression. Baseline JPEG offers greatest compatibility, while progressive JPEGs are suitable for web site images. Progressive images are downloaded and displayed "progressively," being rendered more clearly as more data is received over the internet. Devices with local storage such as the CF/Network Media Player are usually incompatible with progressive JPEG files. Make sure to save images as baseline JPEG in your photo editor, or resave them as baseline JPEGs using free tools such as Paint.net (<http://www.paint.net/>).

The media player is not playing. What should I do?

Check the player's messages on the display (OSD, or on screen display) for status information, and check if the player is keeping the correct time and date.

Since RISC-based media player usually lack input devices such as keyboard or mouse, troubleshooting is usually based on the player's on-screen error messages and status report log files.

If the playback is scheduled to play at specific time, check to see if the device is set to the right time. When nothing seems wrong, the timer clock settings may be the reason the program is not played.