

Manual

VF-150WHD-OF

15.6" HD OpenFrame VideoFlyer

Version 1.21

Revision History

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September 2010	V1.0
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1 Introduction

The DV Signage 15.6" HD VideoFlyer is a self-contained LCD display and network digital media player for continuous (looped) play of HD 1080p video stored on a CF (Compact Flash) memory card. The unit comprises a widescreen 15.6" color TFT LCD, a built in speaker and optional touch screen. A range of other accessories and factory installed customization options are also available, these are not be covered in this manual.

Please note that a certain level technical knowledge and experience is assumed, if you have difficulties please contact your sales representative or DV Signage support, contact details are available on www.dvsignage.com/contact-us

IMPORTANT USAGE NOTE

This equipment is for use by system developers and integrators. The manufacturer accepts no liability for damage or injury caused by the use of this product. It is the responsibility of the developer, integrators or other users of this product to:

- Ensure that all necessary and appropriate safety measures are taken.
- Obtain suitable regulatory approvals as may be required.
- Check power settings to all component parts before connection.**

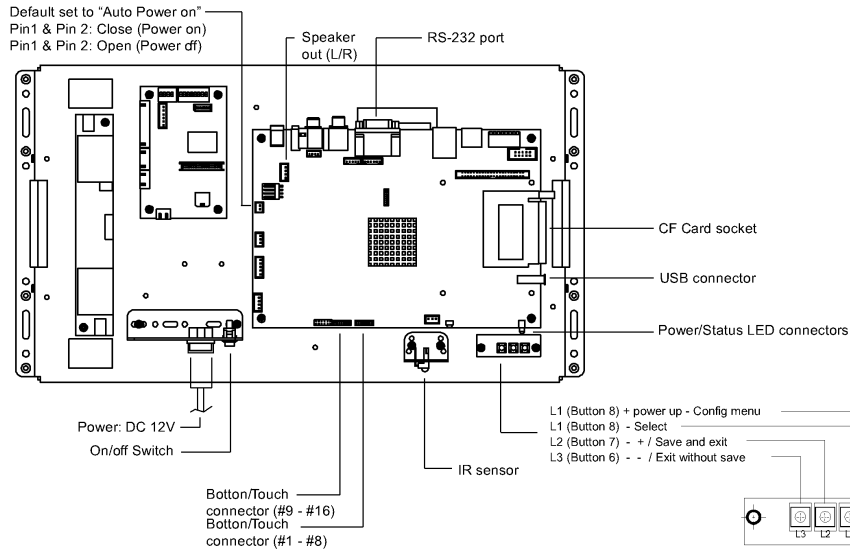
DISCLAIMER

There is no implied or expressed warranty regarding this material.

2 System

15.6" HD Openframe (VF-150WHD-OF)

Aluminum frame with mounting holes for mounting:



3 Instructions

CAUTION: Never connect or disconnect parts of the system when the system is powered up as this may cause serious damage.

3.1 Preparation

DV Signage VideoFlyers are designed to be as plug and play as possible requiring the minimum of setup for use. The following describes the operation of the standard version, there are however a number of options available and these may affect the preparation required.

Main components:

- VideoFlyer unit
- AC power supply
- Compact Flash card
- DV Studio 2*

*Note: DV Studio is a free utility from Digital View that allows you to organize your digital media into playlists and schedule including interactive functionality. This software can be downloaded from www.dvsignage.com/using-dv-studio

3.2 Compact Flash

The DV Signage VideoFlyer uses standard Compact Flash cards to store the media (video, still images, audio) for playback. The following are key points to note:

- The format of the digital media stored on the Compact Flash needs to meet certain standards as per the specifications for this device as summarized in section 6.
- Media files can be stored on the Compact Flash in two ways:
 - Playlist mode: Using Digital View's DV Studio software which enables creation of a playlist with a number of options for controlling media playback.
 - Simple play mode: Using a PC copy function to transfer files onto the Compact Flash.
- All content files must be stored within a folder name MEDIA. (i.e. /Media/)

Additional notes regarding the playback modes are shown below.

3.3 Powering On

- ❑ Install the Compact Flash card, however to reduce the risk of errors it is advised to have the power off when removing or installing a Compact Flash card.
- ❑ Connect the provided external AC power supply unit.
- ❑ Power on the unit using the on/off switch, the power LED should come on.

See the following section for Power On options.

3.4 Autoplay / Manual Playback at power startup

The DV Signage VideoFlyer supports AutoPlay or manual playback modes at power startup

AutoPlay: This is the default mode for the unit. This means that upon power-on video will start playing in accordance with a playlist (if DV Studio was used to transfer the media files to the Compact Flash card) or in alpha-numeric order (if the media files were simply copied to the Compact Flash card).

Manual Playback: Only available as a setting in DV Studio. In Manual Playback mode, after power up press any button and the first track in the Playlist set in DV Studio will play.

3.5 Playback modes

Playlist mode, i.e. using DV Studio:

- ❑ When operating in playlist mode, both project file (*.prj) and playlist file (*.pll) must be present on the Compact Flash card. These are used to control the sequence for all video tracks. If playback does not run as expected please check that these files are present on the Compact Flash card.
- ❑ The project and playlist file are created using DV Studio software. Using this software, you can set simple sequences or complex sequences including “jump track” or “next track” actions. The software can also program buttons with different functions like “play”, “stop”, “pause”, “mute”, “previous”, “next” and “volume”.

Simple play mode, i.e. files copied to Compact Flash without using DV Studio:

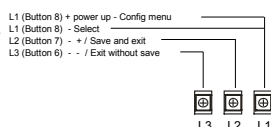
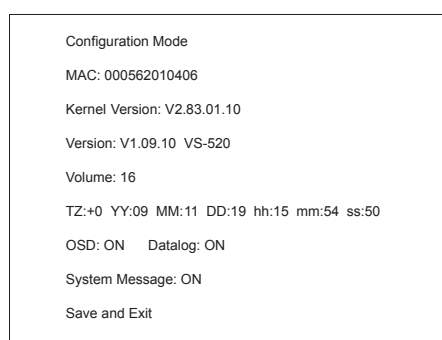
- In simple play mode, the user just copies all video files (.mpg) or JPEG files (.jpg) onto the Compact Flash card. The VideoFlyer will play these files in alphabetical sequence.
- For JPEG files, the play time is determined by the last digit of the filename. (For example: APPLE5.mpg, where “5” means the track will be displayed for 5 seconds.)
Note: Do not use the same filename on both MPEG and JPEG.

Note: Make sure all capital letters in a filename defined in playlist are consistent with the filename on CompactFlash card. All filenames should be in 16+3 format and avoid using any characters like “~”, “_”, “-“, etc. All content files must be stored within a folder name MEDIA. (i.e. /Media/)

3.6 Configuration mode

In OSD configuration mode, you may need external buttons (L1, L2 and L3)

To enter OSD configuration mode, hold button L1 (for 30 seconds) and power on until the OSD menu screen is shown as follows:



- Press button L1 to select option
- Press button L2 / L3 for change value
- Press button L2 to confirm ‘SAVE and EXIT’
- Press button L3 to exit without save

Change the Volume

Press L1 to select **Volume**.

Press L2/L3 to change the volume level. (range from 1 to 32)
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

Change the Time Zone

Press L1 to select **TZ**.
Press L2/L3 to change the time zone value.
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

Set the GMT time

Press L1 to select **YY, MM, DD, hh, mm and ss**.
Press L2/L3 to set the date and time.
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

Important Note: The player was set to GMT=0 by default. If you have already set your local time zone in previous section (Change the Time Zone). Please skip this section or leave the clock to GMT setting.

Set the OSD

Press L1 to select **OSD**.
Press L2/L3 to set "ON" or "OFF".
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

Set the Datalog

Press L1 to select **Datalog**.
Press L2/L3 to set "ON" or "OFF".
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

Set the System Message

Press L1 to select **System Message**.
Press L2/L3 to set "ON" or "OFF".
Press L1 to select **Save and Exit**
Press L2 to save and exit.
Press L3 to exit without save.
Reboot the unit.

3.7 Content update

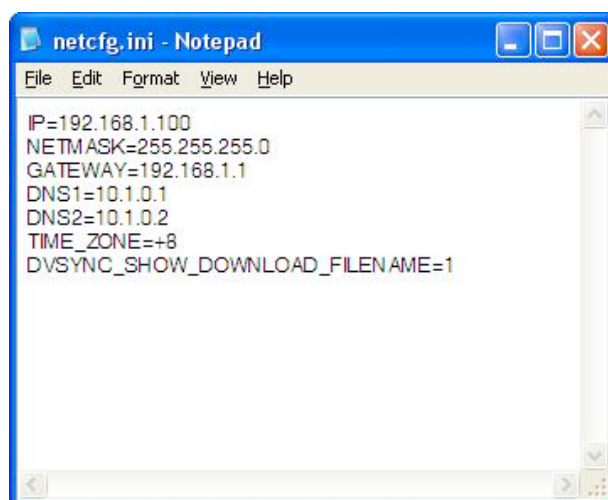
Content on the VF-150WHD can be updated by:

- Copying new media onto the CF card, this can be done using DV Studio if a playlist is required or by direct copy using a PC or MAC. Note: Before you update any content on CF card, please make sure the VF-150WHD is not connecting to any network. Otherwise, the content on CF card may be synchronized (overwrite) with the server.
- Using the USB update process, in this case new media and playlist (if required) is copied to a USB flash drive. This can then be updated to the CF card using the USB update process, refer to the application note. Note: Before you update any content on CF card, please make sure the VF-150WHD is not connecting to any network. Otherwise, the content on CF card may be synchronized (overwrite) with the server.
- Using network to transfer content and files from network server. The server can be a CMS (Content Management Software) server authorized by Digital View or any FTP based server. If you already registered an A/C through the CMS service provider. Please refer to the procedure given by your CMS service provider.

3.8 Network setup

Each VF-150WHD is ship with DHCP settings (IP=0.0.0.0). In some network environment, fix IP could be used and you may need to change the VF-150WHD with the fix IP settings. All IP settings are set in a configuration file called “netcfg.ini”. To change the IP settings on VF-150WHD video flyer, copy the netcfg.ini file with your setting on to MEDIA folder on CF card and restart the player then you will see a boot up message with your IP information changed.

The following is an example of fix IP settings and set Time Zone value (e.g. +8) in netcfg.ini file.



In addition to IP information, the NETCFG.INI file contains some system settings for VF-150WHD video flyer. Below is a table to show all user settings in the NETCFG.INI

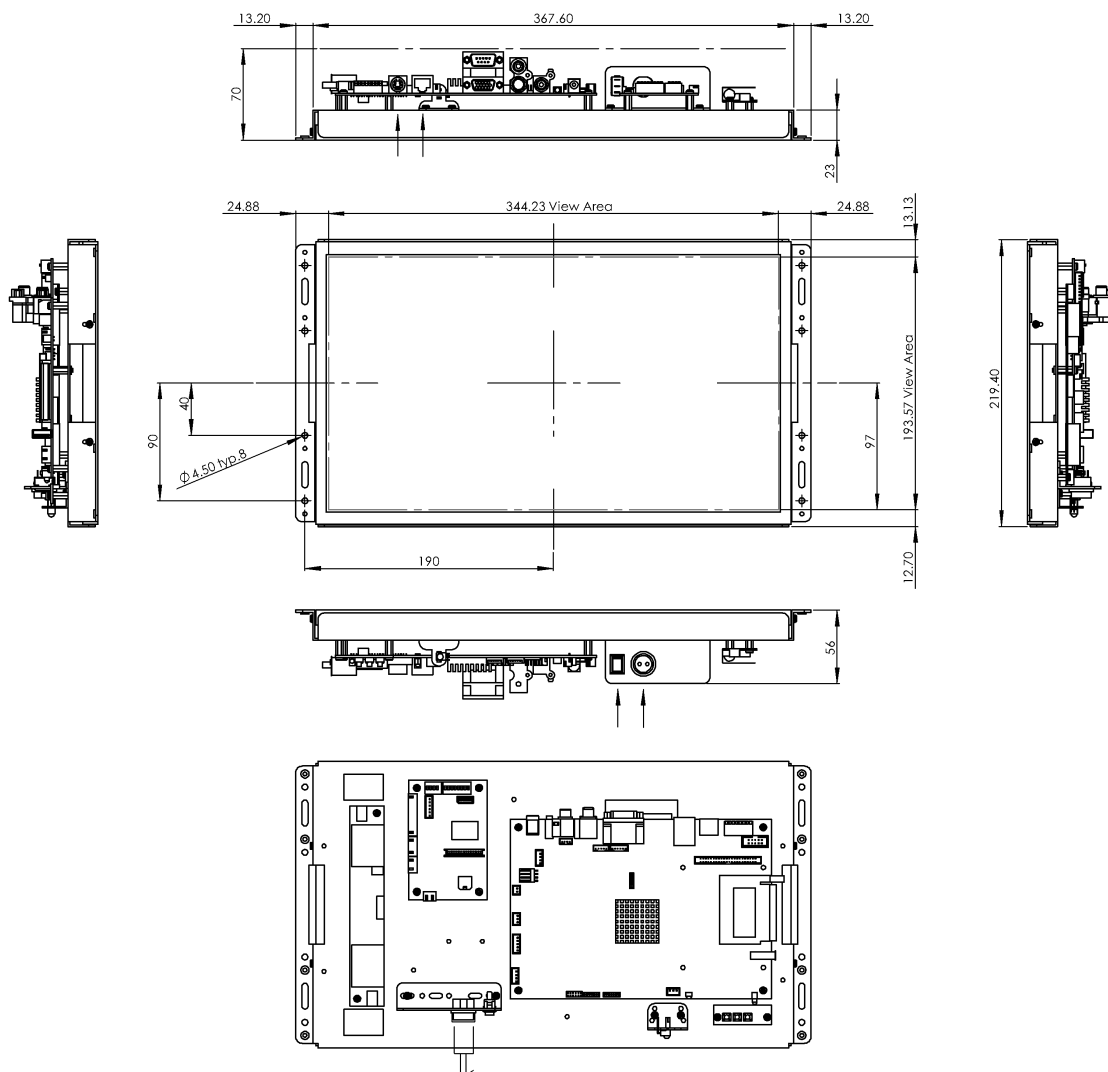
File Content (“NETCFG.INI”)	Default value	Description
IO_OUTPUT_MESSAGE_THROUGH_232_ENABLE	1	Message output on RS-232 port 1=enable 0=disable
IP_OVERWRITE	0	Change IP settings on player 0 = Keep the old IP 1 = Overwrite with new IP
IP	0.0.0.0	IP address 0.0.0.0 = DHCP mode
NETMASK	0.0.0.0	Subnet Mask Address
GATEWAY	0.0.0.0	Gateway address
DNS1	0.0.0.0	DNS1 address
DNS2	0.0.0.0	DNS2 address
TIME_ZONE	0	GMT time zone setting
DVSYNC_SHOW_DOWNLOAD_FILENAME	1	Display filename onscreen while downloading 0= disable 1= enable

3.9 Additional functions

The Video Flyer offers a wide selection of options as briefly introduced below. For more information on each of these please refer to detailed application notes that may be added from time to time at www.dvsignage.com/support-home

- **Playlist:** By default, videos and still images play in alphanumeric order by filename. Using DV Studio to create a playlist, files can be played in a specified order.
- **USB update:** The CF card content can be updated from a USB memory stick.
- **Scheduling:** Multiple playlists can be loaded and scheduled to play at specified times.
- **Motion sensor:** Motion sensors can be used to trigger playback of particular files or as people counters (see data logging).
- **External buttons:** External buttons can be added for track selection.
- **Barcode scanner:** A product barcode scanner can be supported with up to 1,000 referenced images or videos.
- **Data capture:** Details of all interactions with the player such as via the motion sensor, touch screen, buttons or barcode scanner can be recorded and stored on the CF card for later retrieval and analysis.
- **RS-232 protocol:** The RS-232 port is complemented by a complete set of protocols allowing for both external device control and control by external devices.
- **Manual control:** For manual operation of playback functions a remote control handset is available as well as a selection of button options.
- **Firmware upgrade:** From time to time the operating system of the Video Flyer may be upgraded providing new features and /or bug fixes – these upgrades can be easily installed using the firmware upgrade process. Please check the above website links for possible updates.
- **DVSYNC:** A proprietary files sync protocol developed by Digital View. This is a protocol easy to use and setup on your FTP based server with the Video Flyer. An application note of media player (video flyer) to FTP server sync setup is available for download from www.dvsignage.com/support-home
- **Customization:** DV Signage provides customization services. Please contact your local office for enquires.

4 Dimensions



VideoFlyer 15.6" HD Openframe (VF-150WHD-OF)

5 Specification

Playback video format	1. MPEG-1 video (Video-CD), MPEG-2 video (DVD), MPEG-4 (DivX, H.264) 2. JPEG picture
Video storage	CompactFlash memory cards
LCD display	Color TFT
Screen size	15.6" (Diagonal)
Screen active area	344.2(H) x 193.5(V) mm
Panel resolution	1366(H) x 768(V)
Brightness	300 cd/m ²
Contrast ratio	500 : 1
Viewing angle	160/170 (Vertical/Horizontal)
Audio output	Stereo phone jack
Playback Functions	Standard playback : Play, Stop, Pause, Repeat, Previous, Next Track, Volume Programmable playback : Loop, Auto and Program mode
I/O	USB port – Content update COM port – 9600, n81 IR remote control – Playback control Remote Ext. – External button connection (#1 - #8) Volume control RJ-45 LAN port
Options	Table stand Compact Flash card IR remote handset
Power input	DC 12V
Dimensions	394(W)x70(D)x219.4(H)mm
Weight	2.2kg
Environmental	Operating temperature : 0°C to 50°C Relative humidity : 5%-95% relative humidity (Non-condensing)

WARRANTY

The products are warranted against defects in workmanship and material for a period of one (1) year from the date of purchase provided no modifications are made to it and it is operated under normal conditions and in compliance with the instruction manual.

The warranty does not apply to:

- Product that has been installed incorrectly, this specifically includes but is not limited to cases where electrical short circuit is caused.
- Product that has been altered or repaired except by the manufacturer (or with the manufacturer's consent).
- Product that has subjected to misuse, accidents, abuse, negligence or unusual stress whether physical or electrical.
- Ordinary wear and tear.

Except for the above express warranties, the manufacturer disclaims all warranties on products furnished hereunder, including all implied warranties of merchantability and fitness for a particular application or purpose. The stated express warranties are in lieu of all obligations or liabilities on the part of the manufacturer for damages, including but not limited to special, indirect consequential damages arising out of or in connection with the use of or performance of the products.

CAUTION

Whilst care has been taken to provide as much detail as possible for use of this product it cannot be relied upon as an exhaustive source of information. This product is for use by suitably qualified persons who understand the nature of the work they are doing and are able to take suitable precautions and design and produce a product that is safe and meets regulatory requirements.

SAFETY INSTRUCTION

Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool.

LIMITATION OF LIABILITY

The manufacturer's liability for damages to customer or others resulting from the use of any product supplied hereunder shall in no event exceed the purchase price of said product.

TRADEMARKS

The following are trademarks of Digital View Ltd:
Digital View
DV Signage
Video Flyer

FCC statements

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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: 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.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

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