

User Guide

PopStyle 10.1” Network OpenFrame

POP-10N (M5-200SN) | Version 1.0

Revision History

Amendment Date	Version
June, 2013	V1.0

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1 Introduction

The DV Signage 10.1" PopStyle is a self-contained LCD display and network digital media player for continuous playback of video stored on a SD card. The unit comprises a widescreen 10.1" color TFT LCD, a RJ-45 LAN port and optional touch screen. A range of other accessories and factory installed customization options are also available, these are not to 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 <http://www.dvsignage.com/contact>

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:

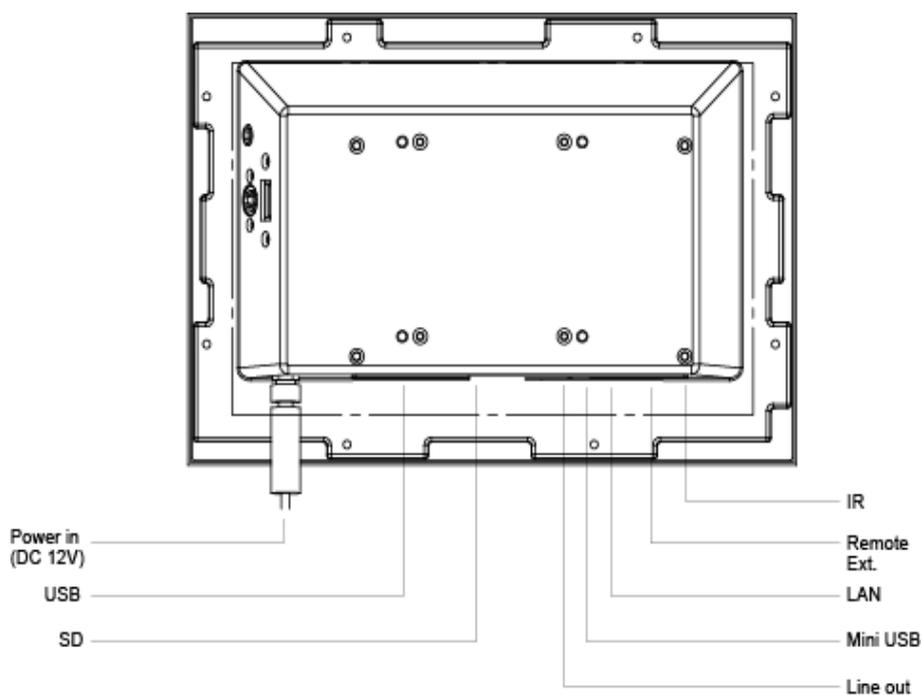
- Ensure that all necessary and appropriate safety measures are taken.
- Obtain suitable regulatory approvals as may be required.
- Check power settings to all component parts before connection.**

DISCLAIMER

There is no implied or expressed warranty regarding this material.

2 System

10.1" PopStyle (POP-10N-OF)



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 PopStyles 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:

- PopStyle unit
- AC power supply
- SD card – see following note

3.2 SD card

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

- The format of the digital media stored on the SD card needs to meet certain standards as per the specifications for this device as summarized in section 5
- Media files can be stored on the SD card in two ways:
 - Playlist mode: Using DV Signage'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 SD card.
- 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 SD card, however to reduce the risk of errors it is advised to have the power off when removing or installing a SD card.
- Connect the provided external AC power supply unit.
- Power on the unit, the power LED should come on.

See the following section for Power On options.

3.4 Autoplay at power startup

The DV Signage PopStyle supports AutoPlay 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 SD card) or in alpha-numeric order (if the media files were simply copied to the SD card).

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 SD 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 SD 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 SD without using DV Studio:

- In simple play mode, the user just copies all video files or JPEG files (.jpg) onto the SD card. The PopStyle 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.ts, where “5” means the track will be displayed for 5 seconds.)
Note: Do not use the same filename on both Video and JPEG.

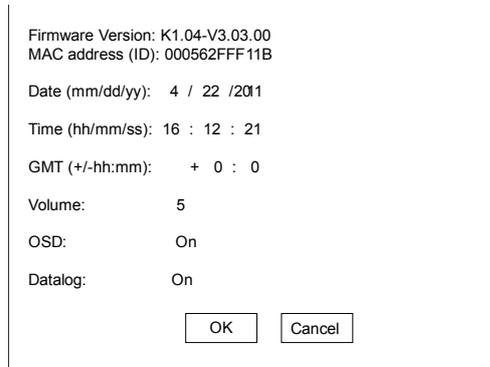
Note: Make sure all capital letters in a filename defined in playlist are consistent with the filename on SD card. All filenames should be in 16+3 format and avoid using any characters like “~”, “_”, “-“, etc. All content files must be stored within a folder name MEDIA. (i.e. /Media/)

3.6 OSD Configuration mode

(This OSD Configuration mode is available subject to different firmware version.)

In OSD configuration mode, you may need external buttons to operate.

- Use with external button.
- To enter OSD configuration mode, holding button 8 and power on the PopStyle unit. The OSD menu screen will be shown as follow:



- Press button 8 to select option.
- Press button 7 or button 6 for change value.
- Press button 7 or button 6 to confirm "OK" or "Cancel".

3.7 Network setup

Each PopStyle is shipped with DHCP settings (IP=0.0.0.0). In some network environment, fixed IP could be used and you may need to change the PopStyle with the fixed IP settings. All IP settings are set in a configuration file called “netcfg.ini”. To change the IP settings on PopStyle, copy the netcfg.ini file with your setting on to MEDIA folder on SD card and restart the PopStyle then you will see a boot up message with your IP information changed.

The following is an example of fixed IP settings in netcfg.ini file.

```

:
IP_OVERWRITE=1
IP=192.168.1.60
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
DNS1=205.252.177.77
DNS2=208.167.231.55
TIME_ZONE=8
DVSYNC_SHOW_DOWNLOAD_FILENAME=1
:

```

Important note: If you intent to change the new IP address (whatever DHCP (0.0.0.0) or Static IP), make sure to add “**IP_OVERWRITE=1**” in netcfg.ini. Otherwise, your new value of IP address will not overwrite the old value.

In addition to IP information, the NETCFG.INI file contains some system settings for POP-15N media player. Below is a table to show the settings in the NETCFG.INI

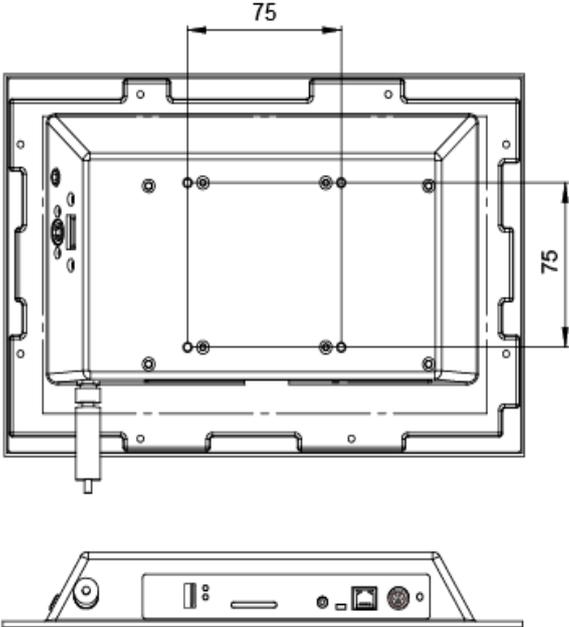
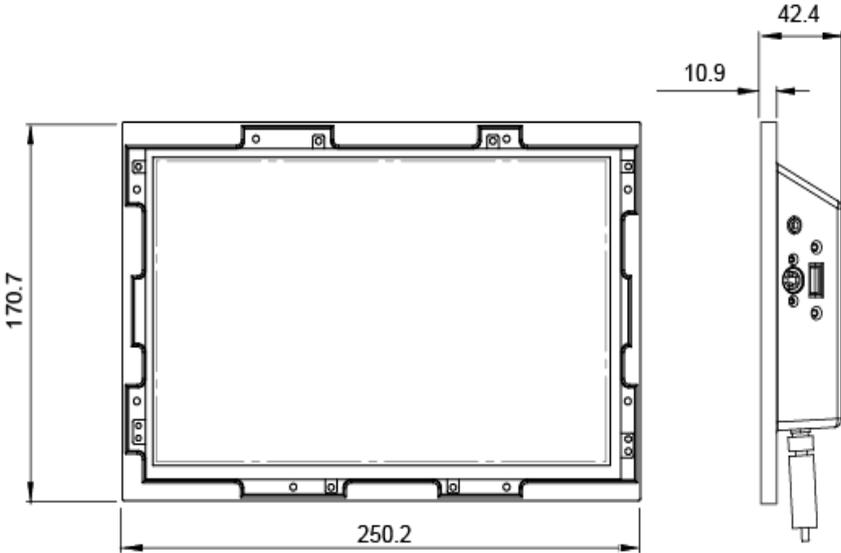
ITEM	DESCRIPTION
IO_OUTPUT_MESSAGE_THROUGH_232_ENABLE	Enable message output on RS-232 port 0 = Disable message output 1 = Enable message output [Default]
IP_OVERWRITE	Change IP settings on player 0 = Keep the old IP settings on player [Default] 1 = Overwrite with new IP settings on player
IP	IP address 0.0.0.0 = DHCP mode [Default: 0.0.0.0]
NETMASK	Subnet mask (Ignore if set to DHCP) [Default: 0.0.0.0]
GATEWAY	Gateway value (Ignore if set to DHCP) [Default: 0.0.0.0]
DNS1	DNS table [Default: 0.0.0.0]
DNS2	
TIME_ZONE	GMT time zone setting

	Format: +/- hh [Default: 0]																						
DVSYNC_SHOW_DOWNLOAD_FILENAME	Display filename on screen while downloading 0 = Do not show filename while content updating 1 = Show filename while content updating [Default]																						
USB_UPDATE_ENABLE	Enable USB update 0 – Disable 1 – Enable USB update [Default]																						
TIME_SERVER	Set time server address pool.ntp.org [Default]																						
DATALOG_DURATION_IN_DAY	Max. day(s) to keep data log [Default: 31]																						
CLEANUP_INTERVAL_IN_MINUTE	Interval to clean up data log [Default: 1440]																						
DAILY_END_TIME_ENABLE	Stop playing End of Day 0 = disable 1 = enable [Default]																						
USB_POLLING_TIME_FOR_MOUNT_IN_SECON	The polling time to check USB device [Default: 30]																						
TELNET_ENABLE	Open Telnet port 0 = disable [Default] 1 = enable																						
IO_SERIAL_PORT_BARCODE_BAUDRATE	Baud rate on RS-232 communication (2400/9600) [Default: 9600]																						
VOLUME	Master volume set, Range (0-32) [Default: 16]																						
X_SCREEN_MODE	This is a READ ONLY value in netcfg.ini. The mode value is reported by player. <table border="1"> <tr> <td>1 (1280x720p60 –VGA)</td> <td>12 (1920x1080i60–VGA)</td> </tr> <tr> <td>2 (1280x768p60 –VGA)</td> <td>113 (NTSC–S-Video)</td> </tr> <tr> <td>3 (1280x1024p60 –VGA)</td> <td>114 (PAL–S-Video)</td> </tr> <tr> <td>4 (1920x1080p60 –VGA)</td> <td>201 (1280x720p60–YUV)</td> </tr> <tr> <td>5 (1024x768p60 –VGA)</td> <td>212(1920x1080i60–YUV)</td> </tr> <tr> <td>6 (800x600p60 –VGA)</td> <td>213 (NTSC – YUV)</td> </tr> <tr> <td>7 (640x480p60 –VGA)</td> <td>214 (PAL – YUV)</td> </tr> <tr> <td>8 (1920x1200p60 –VGA)</td> <td>401(1280x720p60–HDMI)</td> </tr> <tr> <td>9 (1600x900p60 –VGA)</td> <td>404(1920x1080p60–HDMI)</td> </tr> <tr> <td>10 (1600x900p60 –VGA)</td> <td>405(1024x768p60 – HDMI)</td> </tr> <tr> <td>11(1600x1200p60 –VGA)</td> <td>411(1600x1200p60–HDMI)</td> </tr> </table>	1 (1280x720p60 –VGA)	12 (1920x1080i60–VGA)	2 (1280x768p60 –VGA)	113 (NTSC–S-Video)	3 (1280x1024p60 –VGA)	114 (PAL–S-Video)	4 (1920x1080p60 –VGA)	201 (1280x720p60–YUV)	5 (1024x768p60 –VGA)	212(1920x1080i60–YUV)	6 (800x600p60 –VGA)	213 (NTSC – YUV)	7 (640x480p60 –VGA)	214 (PAL – YUV)	8 (1920x1200p60 –VGA)	401(1280x720p60–HDMI)	9 (1600x900p60 –VGA)	404(1920x1080p60–HDMI)	10 (1600x900p60 –VGA)	405(1024x768p60 – HDMI)	11(1600x1200p60 –VGA)	411(1600x1200p60–HDMI)
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NETWORK_NO	Network type 0 – RJ-45 cable [Default] 1 – Wi-Fi																						

WIRELESS_SSID	SSID key <i>[Required custom firmware]</i>
WIRELESS_AUTHMODE	Security modes <u>WEP mode</u> WIRELESS_AUTHMODE=SHARED WIRELESS_ENCRYPTYPE=WEP
WIRELESS_ENCRYPTYPE	<u>WPA mode</u> WIRELESS_AUTHMODE=WPAPSK WIRELESS_ENCRYPTYPE=TKIP <u>WPA2 mode</u> WIRELESS_AUTHMODE=WPA2PSK WIRELESS_ENCRYPTYPE=TKIP <i>[Required custom firmware]</i>
WIRELESS_KEY	Password key <i>[Required custom firmware]</i>
TRACKTOTRACK_ENABLE	Function of Track to Track Gap removal 0 – Disable 1 – Enable [Default]
DAILY_REBOOT_ENABLE	Auto reboot by daily 0 – Disable 1 – Enable [Default]
DAILY_REBOOT_TIME	Auto reboot schedule [Default: 030000] Mid-night 03:00:00
DATALOG_ENABLE	Datalog enable 0 – Disable 1 – Enable [Default]
FTP_UPDATE_ENABLE	Enable DV Connect mode 0 = Content pull mode [Default] 1 = Content push mode
DISPLAY_MARK_ENABLE	Display Mark Control 0 – Disable [Default] 1 – Enable
232LIVE_CMD_ENABLE	RS-232 Command Control 0 – Disable [Default] 1 – Enable
DIP_SW_OVERRIDE	Override DIP Switch (SW-7) settings 0 – Use DIP switch setting (SW-7) [Default] 1 - Use “FTP_UPDATE_ENABLE” setting

4 Dimensions

Dimension



Unit in mm

PopStyle 10.1" OpenFrame (POP-10N-OF)

5 Specification

Playback video format	1. MPEG-2 , MPEG-4 (DivX, H.264) 2. JPEG (.jpg) up to 1920x1080 pixels
Video storage	SD cards
LCD display	Color TFT
Screen size	10.1" (Diagonal)
Screen active area	216.9(H) x 135.6(V) mm
Panel resolution	1280(H) x 3(RGB) x 800(V)
Brightness	350 cd/m ²
Contrast ratio	1500 : 1
Viewing angle	178/178 (Vertical/Horizontal)
Audio output	3.5mm Stereo phone jack (line out)
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 IR remote control – Playback control / Screen OSD Remote Ext. – External button connection (#1 - #8) RJ-45 LAN - Content update
Power input	DC 12V
Dimensions	253.6(W) x 41.4(D) x 174.2(H) mm
Weight	725g
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 DV Signage :
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Video Flyer / PopStyle

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