



# ViewStream 100 User Guide

V2.1

*This brief guide explains how to use and setup your ViewStream 100. It is intended for Digital View/ RemoteMedia staff who will be setting up ViewStream 100 for demos or for customers, and for resellers of RemoteMedia equipment.*

## 1 Introduction

The ViewStream 100 is a commercial digital video and audio player designed to use with TV and Video Monitors for playing MPEG-1/MPEG-2 video and audio files.

- MPEG-1/MPEG-2/MPEG-4\* video
- MPEG still picture output
- JPEG picture
- MP3 audio file
- Video signals of PAL & NTSC standard
- Composite or S-Video output
- VGA output
- Stereo audio output
- RS-232 port (option)

\*DivX MPEG-4 format

### HOW TO PROCEED

Ensure you have all parts & that they are correct, refer to:

- Quick start instruction
- General notes
- System setup

### IMPORTANT USAGE NOTE

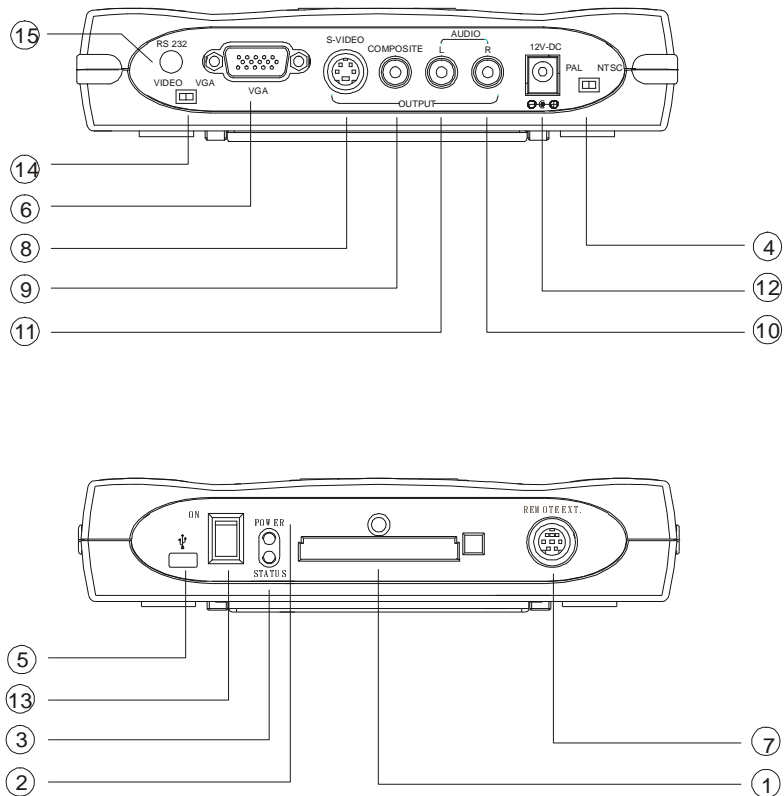
This equipment is for use by developers and integrators; the manufacturer accepts no liability for damage or injury caused by the use of this product. It is the responsibility of the developer, integrators or other users of this product to:

- 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 Features



Item	Description	Type / Use
1	CompactFlash Card socket with ejector (accepts CF Card types 1 & 2)	25x2 pin Hirose CF-II Socket
2	Power status LED	On (green) / Off (clear)
3	Status LED	Enabled (green) / disabled (clear)
4	PAL / NTSC select switch	6mm stem switch
5	USB connector	Mini type
6	VGA connector	DB-15 pin 2.54mm female connector
7	Remote Ext.	8-pin mini DIN socket
8	S-Video output	5-pin mini DIN socket
9	Composite video output	RCA jack (yellow)
10	Audio output – stereo right	RCA jacks – Right (red)
11	Audio output – stereo left	RCA jacks – Left (white)
12	12V DC Power input jack	DC power jack. Center pin positive, 2.5mm diam.
13	Power on/off switch	Rocker switch
14	Video / VGA select switch	6mm stem switch
15	Serial connector (RS-232)*	3.5mm jack (3 pins)

\* RS-232 version only available in version 5868900-41

# 3 Quick Start Instruction

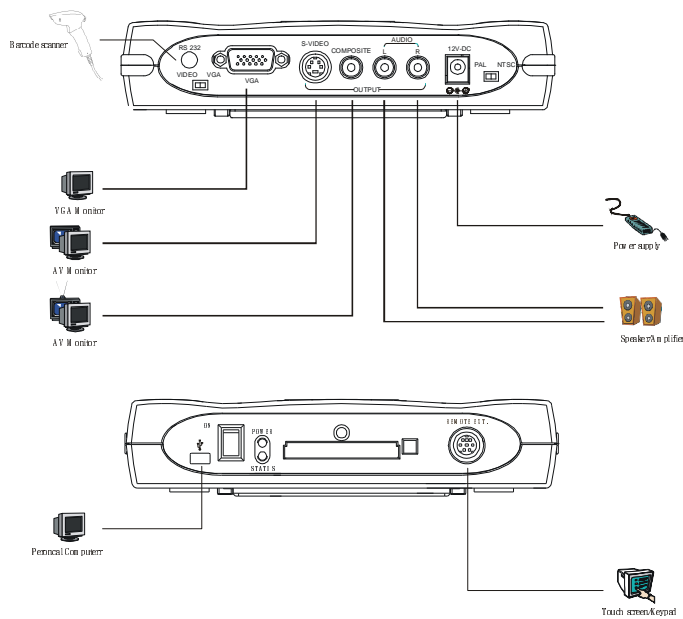
**CAUTION:** Never connect or disconnect parts of the system when the system is powered up as this may cause serious damage.

**CONNECTION** – Connection and usage are straightforward. However, care needs to be taken with the following:

- Ensuring parts have been correctly connected – both power & signal considerations.
- Checking that all switches are set correctly.
- The input signal is compatible.
- Legal & safety requirements have been met.
- If you are using supplied cables & accessories, ensure they are correct for the model of video monitor.

**Now connect the system as follows:**

- Connect Video Monitor signal connections.
- Switch settings. (e.g. PAL/NTSC switch setting)
- Connect the Video and Audio cables from the ViewStream 100 to the Video Monitor.
- Connect the power supply to the Video Monitor.
- Connect the power supply (DC 12V @ 1.2A minimum. - ensure correct + & - orientation) to the ViewStream 100.
- Power on the video monitor display.
- Power on the ViewStream 100 unit.



# 4 General Notes

The ViewStream 100 is designed for use with Video Monitors and other analogue signal input displays. Here are some notes for correct use:

- **Preparation** - Before you proceed, please familiarize yourself with the various connectors, jacks, switches and function buttons of the ViewStream 100 unit (see the 'System Features' diagrams).
- **The unit** - Handle the unit with care; any knocking may cause components to come loose and disconnect. Operate in a cool and dry place.
- **Power Input:** 12V DC1.2A (minimum) is required; this should be a regulated supply.
- **Digital Video:** use MPEG-1/MPEG-2 video encoded at Video-CD. (See "Content Creation Guide" for proper encoding rate.)

*\* For MPEG-2 video, the encoding rate is limited to 5Mb/s*

- **Audio & Video output:** Video - displays PAL & NTSC signals with either Composite, S-video or Component signal. The PAL/NTSC switch should be set correctly. Audio - Stereo output. Volume is controlled by the switch mount buttons.
- **Remote Ext.:** A external port for remote button control (p/n: 4161013-00 (buttons)) User can use this port as a touch screen interface. Maximum up to 8 touches can be accessed.
- **Remote Ext. cable:** The cables (p/n: 4266318-00) to any remote button control should be of suitable quality and length so that impedance does not affect performance. Generally lengths up to 1 metre (3 feet) should be acceptable.
- **Power LED:** The power LED indicator shows power is being supplied to the player – LED light activated by the power on/off switch.
- **Status LED:** The LED indicates the status of CompactFlash card.
- **RS-232 Serial port (option):** Only support barcode scanner. The baud rate must be set to (2400, n,8,1) and record suffix is set to CR (0DH). Requires RS-232 extend cable (p/n: 4268913-00)
- **USB – USB Client.** Connect to PC or Notebook for content update without removing CF card. In order to be able to use the USB capabilities, the computer must be an IBM PC compatible computer with USB 2.0 support and running Microsoft Windows XP/2000.
- **VGA out –** Supports 640x480 VGA resolution.
- **Service & Warranty:** Warranty is invalidated if the unit is dismantled in any way. The unit is not user serviceable or repairable.

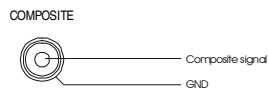
**CAUTION:** do not attempt to remove any part of the casing or internal parts.

# 5 Connectors and Buttons

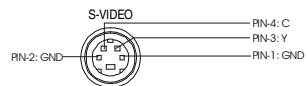
## 1. Jacks / Connectors:

- **Storage Device** (CompactFlash Card - insert into front CompactFlash Card socket)
- **USB (Mini USB connector)**
- **Video Outputs**

Composite – connect Composite video signal cable

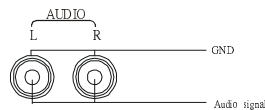


S-Video – connect S-Video signal cable

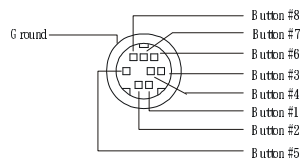


- **Audio Output (Stereo)**

R – right audio channel  
L – left audio channel

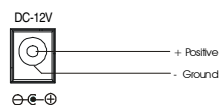


- **Input control**

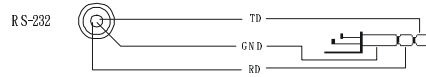


Remote Ext. - for remote button control.

- **Power input – DC 12V, 500mA (min)**



- **RS-232 Serial port**



## 2. Switches

- Power on/off switch
- PAL / NTSC output select



- VIDEO / VGA output select



## 3. LED's

- Power LED (green –'on')
- Status LED ("Flashing" green – Reading/Writing)

# 6 System Setup

## A) SELECT SWITCHES

Before powering on the ViewStream 100:

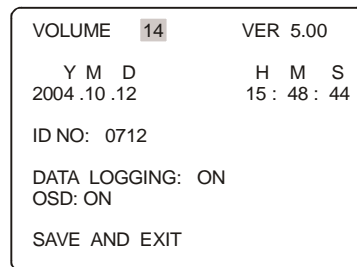
- Make sure the corresponding signal cables have been connected from the Composite or S-Video output jacks.
- Set the 'PAL/NTSC' switch to the chosen output format.

## B) POWER UP

*Config mode*

In config mode, you may need either external buttons or 8-segmented touch screen to operate.

- Holding button 8 and power on. The OSD menu screen will be shown as follow:



- Press button 8 to select or press button 7/6 for up/dn.
- Press button 7 or 6 for save and exit.

*Auto-Play start up mode\**

- Plug in the external power supply
- Insert CompactFlash Card containing DV Studio Advanced exported “.pll / .prj” and other digital files. (e.g. .mpg, .mp3, .jpg) All filename should be in 8+3 format (i.e. xxxxxxxx.xxx) and avoid using any illegal characters like “~”, “\_”, “-”, etc
- Switch the power 'on/off' switch to 'on'.
- The first track of the collection of MPEG files will be auto-played.

### *Sleep mode\**

- Plug in the external power supply
- Insert CompactFlash Card containing DV Studio Advanced exported “.pll / .prj” and other digital files. (e.g. .mpg, .mp3, .jpg) All filename should be in 8+3 format (i.e. xxxxxxxx.xxx) and avoid using any illegal characters like “~”, “\_”, “-“, etc
- Switch the power 'on/off' switch to 'on'.
- Press the 'play' button'.
- The first track of the collection of MPEG files will be played.

Note: special specific track playback activated by assigned button can also be performed in sleep mode - contact local sales office.

\*The Autoplay and Sleep playback mode are selected when writing the MPEG files on to the CompactFlash Card by using DV Studio Advanced software.

### **C) AUTO-LOOP PLAYBACK**

After Track 1 is set to play, it will play to the end, then Track 2 will start playing from beginning to end, then Track 3 etc. When the ViewStream 100 plays to the end of the last track, it will automatically jump back to the beginning of Track 1, repeating tracks 1,2 then 3 etc. The ViewStream 100 will play in auto-loop play mode, so long as none of the function buttons are pressed. (NOTE: Loop playback is the standard playback setting of the ViewStream 100 but the track playback sequence can be changed as required: contact local sales office.)

# 7 Operating Instructions

## OPERATING MODES

There are two operating modes in MV-Flash M3 – “playlist mode” and “simple play mode” .

### 1. *Playlist mode*

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.

The project and playlist file are created using **DV Studio Advanced** software. Using this software, you can set simple sequences or complex sequences including “jump track” or “next track” actions. DV Studio can also program buttons with different function like “play”, “stop”, “pause”, “mute”, “previous”, “next” and “volume”.

### 2. *Simple play mode*

In simple play mode, the user just copies all video files (.mpg) or JPEG files (.jpg) onto the Compact Flash card. The MV-Flash M3 will play these files in alphabetical sequence.

For MPEG still pictures or JPEG files, the play time can be set 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 filename defined in playlist are consistence with the filename on CompactFlash card. All filename should be in 8+3 format (i.e. xxxxxxxx.xxx) and avoid using any illegal characters like “~”, “\_”, “-“, etc

## OPERATING FUNCTIONS

The following key buttons are default in “Simple Play mode” . (This operation requires button switchmount or 8-segments touch screen connection.)

### PLAY (Button 1)

- Resumes playback of videos from track 1 after STOP has been pressed.
- Resumes playback of the track from the point that it has been set to PAUSE.
- Playback is reset back to the beginning of the specific track which is being played at the time the PLAY button is pressed.

### STOP (Button 2)

- When STOP is pressed the video stops playing and a blank screen is displayed.

### PAUSE (Button 3)

- When PAUSE is pressed the video image instantly freezes.
- Press Pause again or PLAY to resume normal playback from the position where it was paused.

#### REPEAT (Button 4)

- When REPEAT is pressed the current track loop back on itself continuously.
- To disable the repeat mode press REPEAT, PLAY, PREVIOUS TRACK or NEXT TRACK . When the track plays to the end it will playback the next track (and etc.) as normal.

#### NEXT TRACK (Button 5)

- The NEXT TRACK function can be activated only when a track is already playing. When NEXT TRACK is pressed the current video stops playing and jumps directly to the start of the next track.

#### VOLUME DECREASE (Button 6)

- Decreases audio output volume setting.

#### VOLUME INCREASE (Button 7)

- Increases audio output volume setting.

#### MUTE (Button 8)

- When MUTE is pressed, all the tracks will have no sound.
- Press MUTE again to resume the normal sound in all tracks.

Note : All above buttons can be re-defined by DV Studio Advanced software if operating in playlist mode.

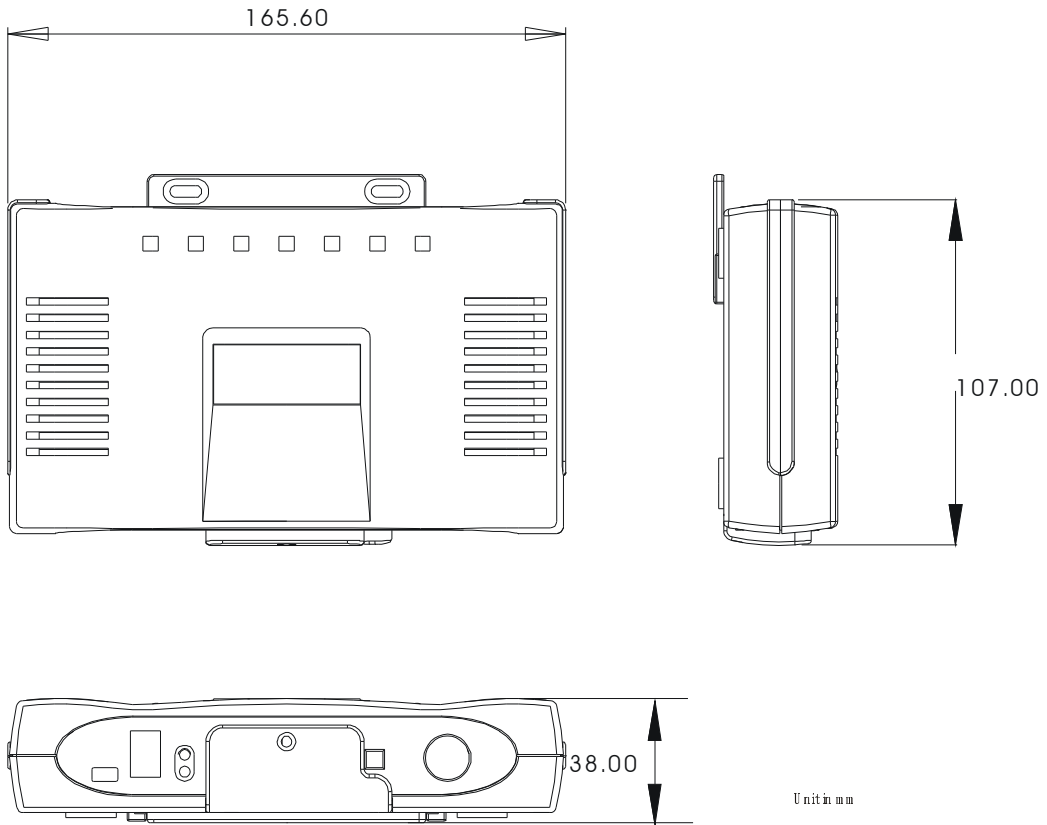
## USB PORT

The MV-Flash M3/100 USB port provides the ability to connect a computer directly to the controller and to read and write data to and from the Compact Flash card.

The MV-Flash 100 product must be turned OFF during these operations and a CF card must be installed.

- Connect USB cable of your ViewStream 100 unit to the available USB port of the computer.
- The computer will automatically detect MV-Flash 100 unit as a removable drive.
- Double click on **My Computer** and the menu will list a new Removable Drive letter representing the CF card.
- Files on the CF card may now read, written or erased in any sequence as to a normal drive. The green status LED will flash while files are updating.
- Make sure that data transfer between the ViewStream 100 and the computer is completed before removing the USB cable or CF card.

# 8 Dimensions



**Notes:**

- Dimensions are in mm.
- Drawing is not to scale.

# 9 Specifications

<b>Playable formats:</b>	MPEG-1 video (Video CD) MPEG-2 video (DVD)* MPEG-4 video (DivX format) MPEG still picture MP3 audio JPEG still picture VGA (640x480)
<b>Video Storage medium:</b>	CompactFlash Memory Cards : Type 1 & Type 2
<b>Output Display Systems:</b>	TV and Video Monitors VGA monitors
<b>Video Output:</b>	Signal type : Composite and S-Video Output format : PAL and NTSC
<b>Output Resolution:</b>	Low resolution : 352 x 288 pixels (PAL) : 352 x 240 pixels (NTSC) High resolution : 720 x 576 pixels (PAL) : 720 x 480 pixels (NTSC) Still picture : 704 x 576 pixels (PAL) : 704 x 480 pixels (NTSC) JPEG picture : 800 x 600 pixels
<b>Audio Outputs:</b>	Stereo output, connector – RCA jack, 3.2 V p-p max. 5K ohm
<b>Signal-to-Noise:</b>	96 dB
<b>Select Switches:</b>	Power ON/OFF switch PAL/NTSC playback format select Video / VGA select
<b>Indicators:</b>	Power LED, Status LED
<b>Start-up Modes:</b>	Autoplay (at power-on); Sleep mode (after power-on)
<b>Power Input:</b>	12V DC, 500mA typical
<b>Power Consumption:</b>	6 W
<b>Environment:</b>	0 °C to 50 °C , free air circulation
<b>Relative Humidity</b>	5-95% relative humidity, non-condensing
<b>Dimensions:</b>	165.6 x 38 x 107mm (W x H x D)
<b>Weight :</b>	net weight: 300g
<b>External ports:</b>	RS-232 port – for barcode application (Baud rate: 2400, n,8,1). Record suffix = CR (0D Hex) Remote Ext. – External buttons connection (8-buttons)
<b>Video Storage Accessories:</b>	CompactFlash Card – various memory capacities available 128, 256, 512MB, 1G, 2G, 4G

\* For MPEG-2 video, the encoding rate is limited to 5Mb/s

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## 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.

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## 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.

**DISCLAIMER: There is no implied or expressed warranty regarding this material.**

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## 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.

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- ThinSurfer
- RemoteMedia
- ViewStream 100

CompactFlash is a registered trademark of SanDisk Corporation.  
Other brands and products are trademarks of their respective holder/s.

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Specifications subject to change without notice

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