

Application Note

Data Logging

(VS-500 / VS-520)

Version 1.1

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1 Introduction

The Data logging function for Digital View media players ViewStream™ 500 (VS-500, ViewStream™ 520 (VS-520) and board level RM-DN5 records media player activity with details such as:

- Identification of specific media player
- Playback of content with details of time and date
- Data-log file history

This creates a file that can be analyzed to reveal information such as the number of times a track has been played and also any interactive activity.

2 Data Logging

The following process shows how to:

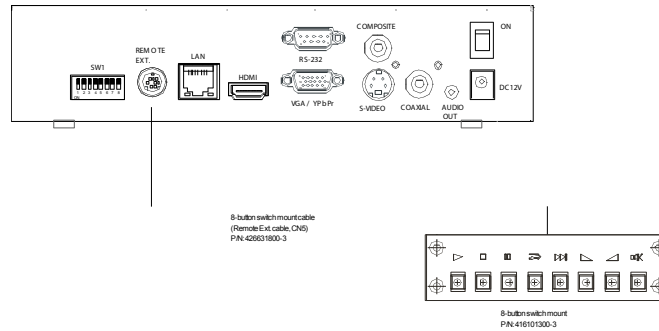
- Enable data-logging on the media player

See Section 3 for details regarding retrieval of the data-logging data file from the media player.

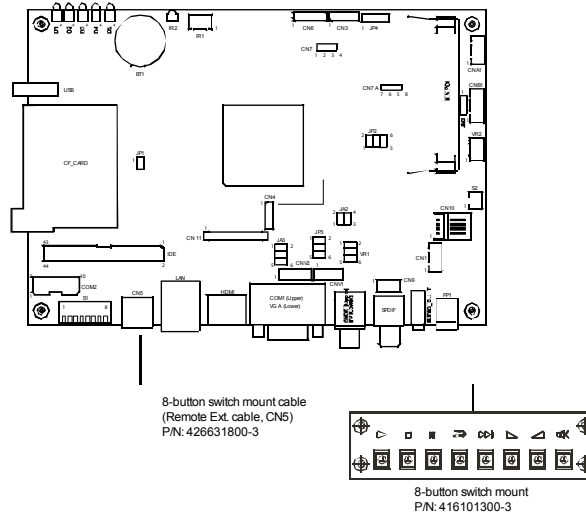
2.1 Preparation

Data Logging – On/Off can be set in the media player’s on-screen (OSD) Configuration mode menu. To do this an 8-button switch-mount* needs to be connected to the VS-500/VS-520 or RM-DN5 as shown in the following examples:

Example 1 – Connect an 8-button switch-mount to Remote Ext. connector on VS-500/VS-520 or RM-DN5.



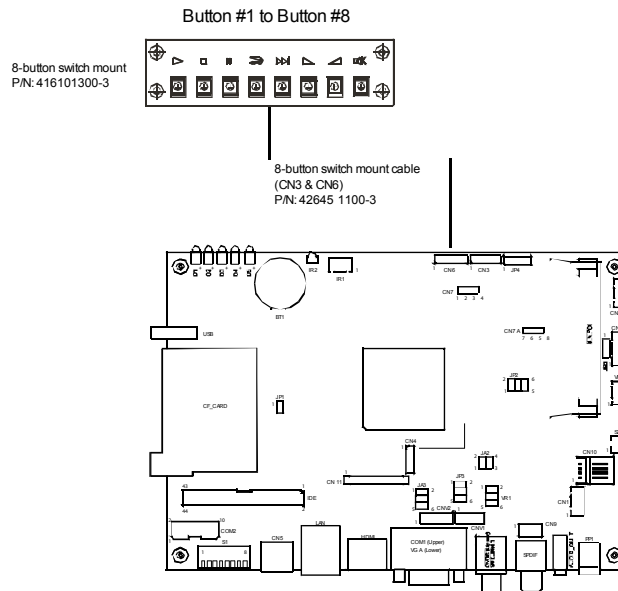
VS-500 / VS-520



RM-DN5

***Note:** Contact your local Digital View distributor or regional office if you do not have the 8-button switch mount kit.

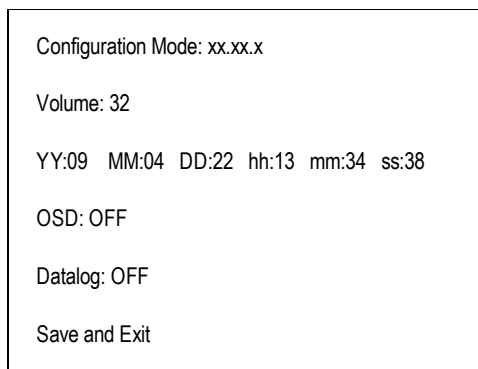
Example 2 – Connect an 8-button switch-mount to the CN6 on-board connector on the RM-DN5.



2.2 Data Logging – On/Off

Data Logging can be switched to “ON” or “OFF” in the on-screen (OSD) Configuration mode menu. (The default setting is OFF.)

- Hold button 8 (for 30 seconds) and power On to enter the OSD Configuration mode menu.



- Use button 8 to move to “**Data log**”. (The default is **OFF**)
- Press button 7 or button 6 to set “ON” or “OFF”.
- Use button 8 to move to **SAVE AND EXIT** and then press button 7 to confirm

3 Data Retrieval

The following process shows how to:

- Retrieve the data logging file and data-log history

This is done using the USB update function on the media player as outlined below. Full details of the Digital View media player USB update function can be found in the Application notes download section on the Digital View website.

3.1 Preparation

Enable Data Logging:

- Set “**Data log**” to ON in the Configuration mode menu as shown in Section 2 above.

```
Configuration Mode: xx.xx.x
Volume: 32
YY:09 MM:04 DD:22 hh:13 mm:34 ss:38
OSD: OFF
Datalog: OFF
Save and Exit
```

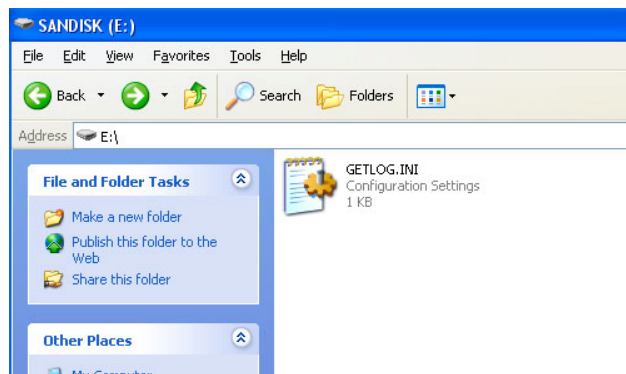
Media Player Compact-Flash (CF) card:

- Ensure a CF card has been installed in the VS-500/VS-520 or RM-DN5 media player.
- Make sure a “MEDIA” folder is present on the CF card

USB flash drive:

- Ensure the USB flash drive has been formatted with FAT32.
- Create a **blank** text file named “GETLOG.INI” on the root directory of the USB flash drive. (The file should just contains some ‘space’ and file size must not be 0KB) or you can download the “GETLOG.INI” from:

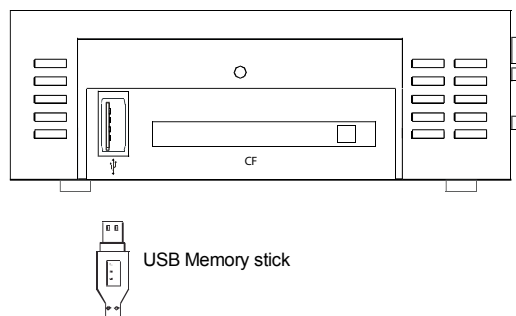
<http://www.digitalview.com/support/support-documents>



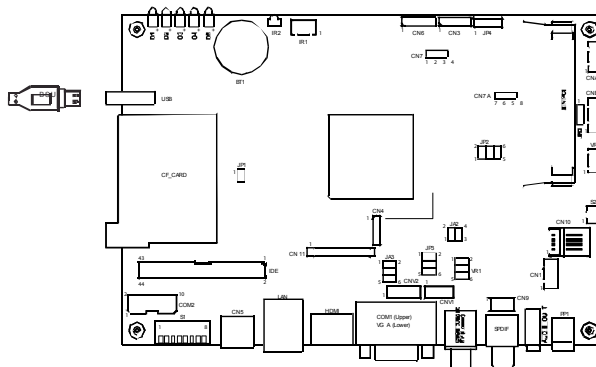
3.2 USB Connection

Connecting USB flash drive directly to the USB port on VS-500/VS-520 or RM-DN5 media player.

VS-500/VS-520 connection :



RM-DN5 connection :



3.3 USB update

1. Make sure the VS-500/VS-520 or RM-DN5 is powered off before inserting the USB flash drive.
2. Power on the VS-500/VS-520 or RM-DN5 when the USB flash drive is inserted.
3. When the GETLOG.ini file is detected on the USB flash drive, the Log file will be copied from the CF card and updated to the USB flash drive automatically. A sequence of screens will be shown as below:

USB is mounted



Get Log Finished

4. Once the file copy is completed, power off the unit and disconnect the USB flash drive.

Note: All media files must be stored and running inside the "MEDIA" folder on the Compact Flash card. The GETLOG.ini must be stored outside "MEDIA" folder.

Two files will be copied across:

- Getlog.ini: A control file that contains only "space" to control data-log file download.
- Update.log: A text file recording the data-log file history

See section 4 for file details.

4 Log file

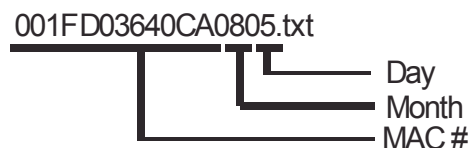
The log files are text files showing:

- Getlog.ini – A control file that control data-log file download.
- Data-log file (.txt)– The file records date and time of MPEG/JPEG files played. This data provides a useful track record that can be analyzed to show file plays and also reveal all interaction such as button presses.
- Update.log – A history of the data-log files.

The following explains the files and data collected.

4.1 Data-log file (.txt)

This is the data logging data file. The filename of each log file is composed of MAC (Media Access Control) address (12 characters long) and the log creation date (MMDD).



The data file is written in ASCII format in which you can read (or import) it as a text file. Shown below is an example of the data in a log file.

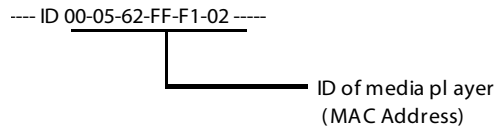
```

---- ID 00-05-62-FF-F1-02 ----
--- ID NO: 000562FFF102 --- [POWER_UP] --- 20080805, 02:10:20
--- ID NO: 000562FFF102 --- [SIMPLE_MODE] --- 20080805, 02:10:25
BAL, 02:13:52
BP, 02:14:05
LEGO, 02:14:07
WALL, 02:14:23
--- ID NO: 000562FFF102 --- [POWER_UP] --- 20080805, 02:14:30
--- ID NO: 000562FFF102 --- [SIMPLE_MODE] --- 20080805, 02:14:35
BAL, 02:14:52
BP, 02:15:05
LEGO, 02:15:23
WALL, 02:15:57
--- ID NO: 000562FFF102 --- [SLEEP.PLL] --- 20080805, 02:16:30
BAL, 03:14:52
BP, 03:15:05
LEGO, 03:15:23
WALL, 03:15:57

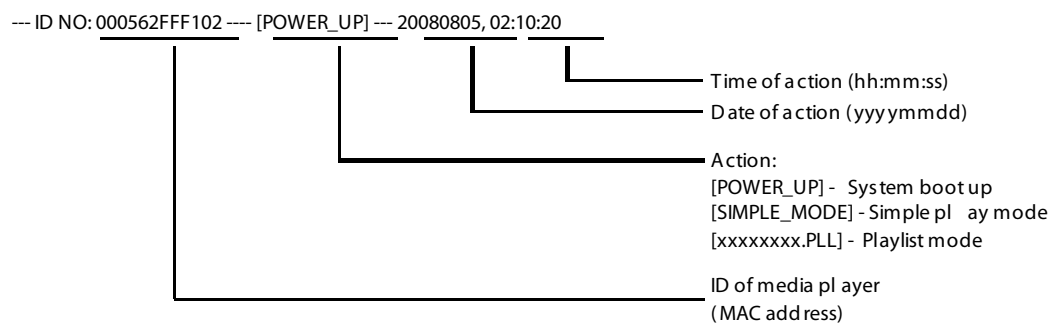
```

Explanation:

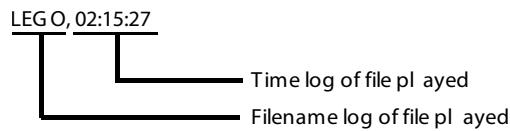
The 1st line shows the ID of the media player.



The 'Action' line shows the power up data or the mode of action.



The 'File log' line shows a file that was played and the time started (hh:mm:ss).



This data can be imported into a database or other program for analysis showing information such as:

- The number of times particular file was played. This can be further analyzed for client reporting or to reveal interactive choices.
- Monitoring and compliance information

4.2 Update.log

Update.log is another text file will be created on USB flash drive once the content upload process is done successfully. This file records the history of content updated as shown in the following example:

```
[2008-12-17 16:12:15]COPY:DIFF_05.JPG  
[2008-12-17 16:12:15]COPY:DIFF_06.JPG  
[2008-12-17 16:12:15]COPY:DIFF_07.JPG  
[2008-12-17 16:12:15]COPY:DIFF_08.JPG  
[2008-12-17 16:12:16]COPY:DIFF_09.JPG  
[2008-12-17 16:23:10]COPY:USB_03.PLL  
[2008-12-17 16:34:41]DELETE:1024768.jpg  
[2008-12-17 16:34:41]DELETE:12801200.jpg  
[2008-12-17 16:34:41]DELETE:640480.jpg  
[2008-12-17 16:34:47]DELETE:pl02.pll  
[2008-12-17 16:34:47]DELETE:pl03.pll  
[2008-12-17 16:34:47]DELETE:schedule.ini  
[2008-12-17 16:34:48]COPY:1024768.JPG  
[2008-12-17 16:34:49]COPY:12801200.JPG  
[2008-12-17 16:34:49]COPY:1280720.JPG  
[2008-12-17 16:34:49]COPY:1280768.JPG  
[2008-04-22 10:01:24]UPGRADE:ram2rom.dn5  
[2008-04-23 00:42:48]REPLACE:PL02.PLL  
[2008-04-23 00:42:48]REPLACE:PL03.PLL  
[2008-04-23 00:42:48]REPLACE:19201080.JPG
```

This file can be imported into a database for further analysis and reporting. For example it could be used to prepare a compliance report.

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