Application Note

Button Connection on ViewStream™ Player
(for M3-100/VS-100/M3-300/VS-300/M3-320/VS-320/VS-500/VS-520/RM-DN5)

Version 2.1

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1 Introduction

This application note explains the use of buttons with the ViewStream™ media player and the M3-100, M3-300, M3-320 and RM-DN5 OEM media player boards. It also includes the button connection and playlist configuration using DV Studio.

1.1 What you need?

Before setup, please make sure have the following parts:

For ViewStream™ 100, 300, 320, 500 & 520 (VS-100, VS-300, VS-320 VS-500 & VS-520)

- VS-100, VS-300, VS-320, VS-500 or VS-520
- Remote extension cable (P/N 426631800-3)
- Switch mount board (P/N 416101300-3)

For OEM player board M3-100, M3-300, M3-320 and RM-DN5

- M3-100, M3-300, M3-320 or RM-DN5
- 9-ways button cable (P/N 426450100-3, 140mm or P/N 426450110-3, 300mm)
- Switch mount board (P/N 416101300-3)

For both you will need a copy of DV Studio which can be downloaded from:

http://www.digitalview.com/products/software
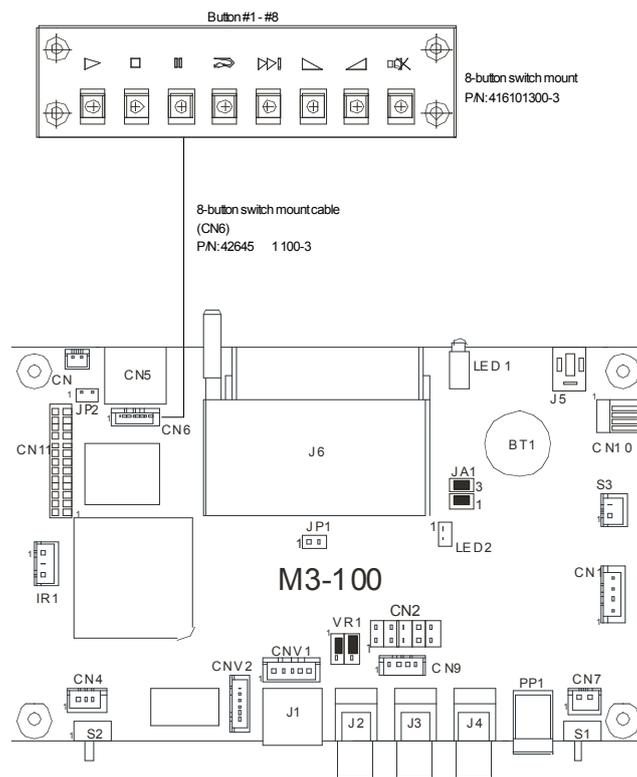
2 Button Connection

2.1 Connection with M3-100 & VS-100

2.1.1 Connect 8-button with M3-100

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

2.1.2 Connect 8-button with VS-100

Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the Remote Ext. socket (CN5) via the standard cable (P/N:426631800-3)

8-button switch mount cable
(Remote Ext. cable, CN5)
P/N:426631800-3

Button #1 - #8

8-button switch mount
P/N:416101300-3

Important note: There is no additional button connector for #9 - #16 available on M3-100 and VS-100.
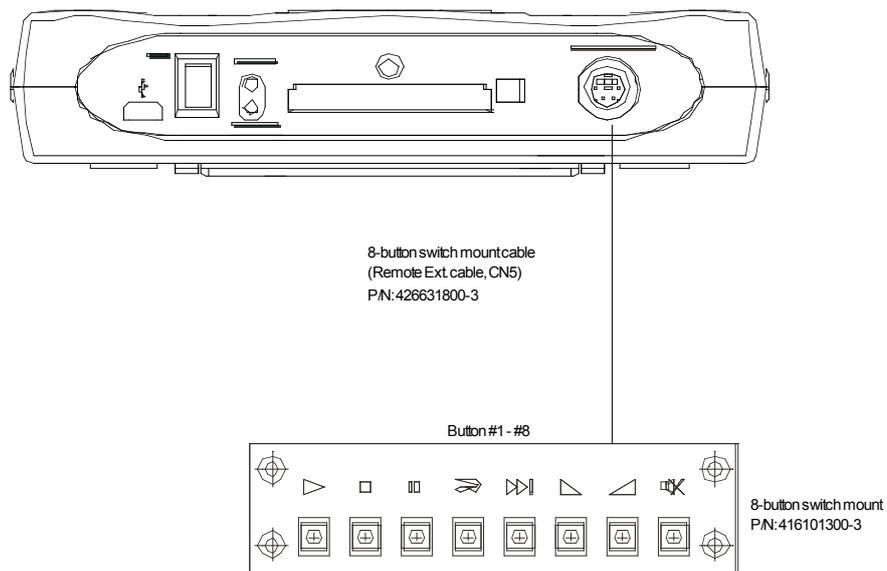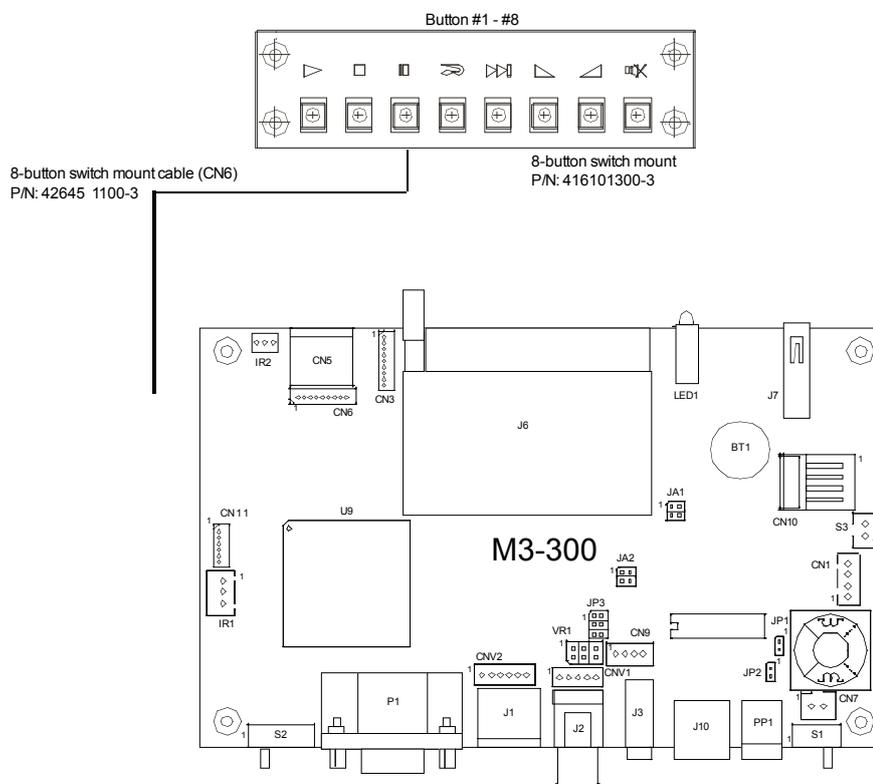
2.2 Connection with M3-300 & VS-300

2.2.1 Connect 8-button with M3-300

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

2.2.2 Connect 16-button with M3-300

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

- Use the switchmount (P/N:416101300-3) for 9-16 buttons when connected to the button connector CN3 via the standard switchmount cable (P/N:426450100-3)

2.2.3 Connect 8-button with VS-300

Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the Remote Ext. socket (CN5) via the standard cable (P/N:426631800-3)

8-button switch mount cable
(Remote Ext. cable, CN5)
P/N: 426631800-3

Button #1 - #8

8-button switch mount
P/N: 416101300-3

Important note: There is no additional button connector for #9 - #16 available on VS-300. However, it is possible to access button #9 - #16 on VS-300 but a custom-made housing design is required. Please contact your local Digital View distributors for more details.

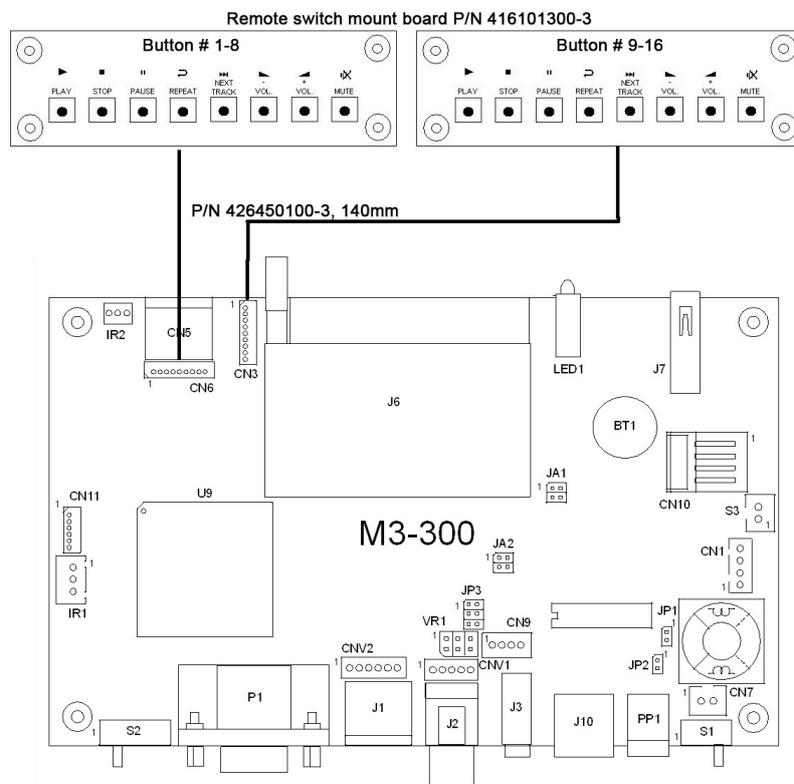## 2.3 Connection with M3-320 & VS-320

2.3.1 Connect 8-button with M3-320

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)
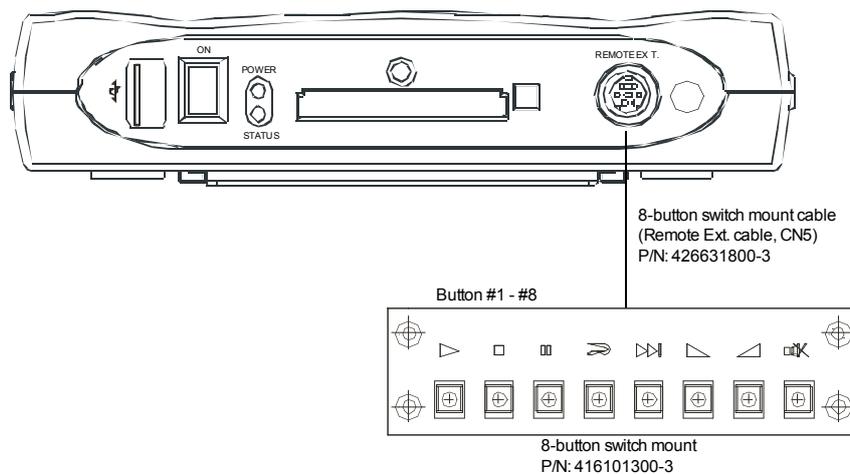
Button #1 - #8

8-button switch mount cable (CN6)
P/N: 42645 1100-3

8-button switch mount
P/N: 416101300-3

2.3.2 Connect 16-button with M3-320

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

- Use the switchmount (P/N:416101300-3) for 9-16 buttons when connected to the button connector CN3 via the standard switchmount cable (P/N:426450100-3)

2.3.3 Connect 8-button with VS-320

Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the Remote Ext. socket (CN5) via the standard cable (P/N:426631800-3)

8-button switch mount cable
(Remote Ext. cable, CN5)
P/N: 426631800-3

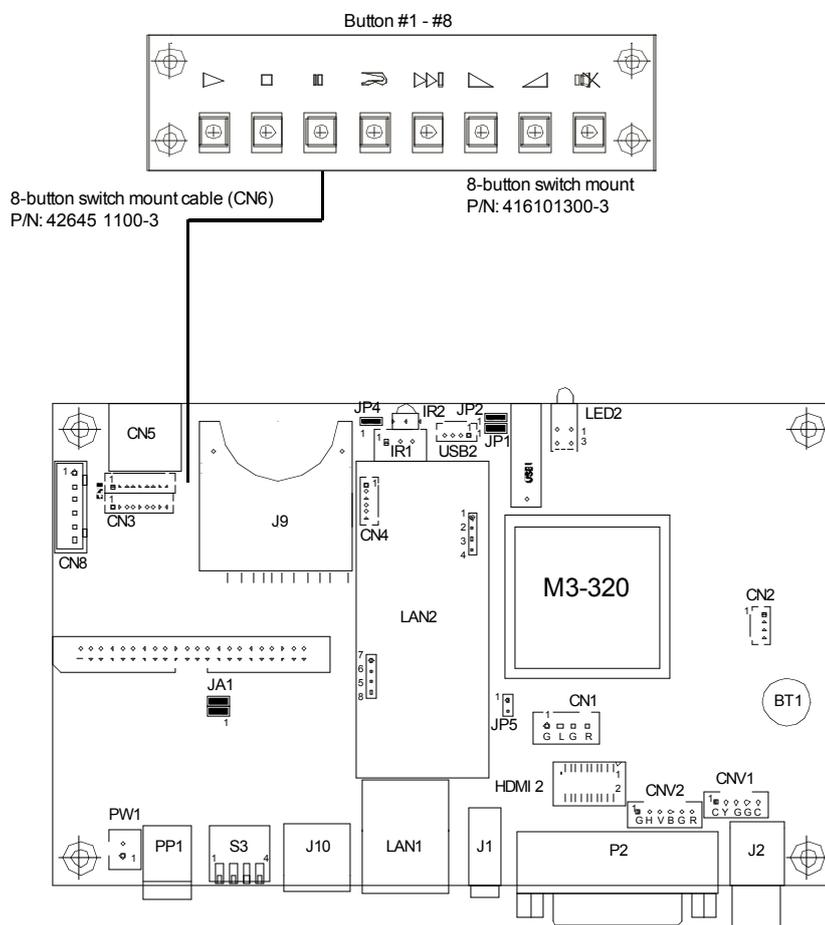Button #1 - #8

8-button switch mount
P/N: 416101300-3

Important note: There is no additional button connector for #9 - #16 available on VS-320. However, it is possible to access button #9 - #16 on VS-320 but a custom-made housing design is required. Please contact your local Digital View distributors for more details.

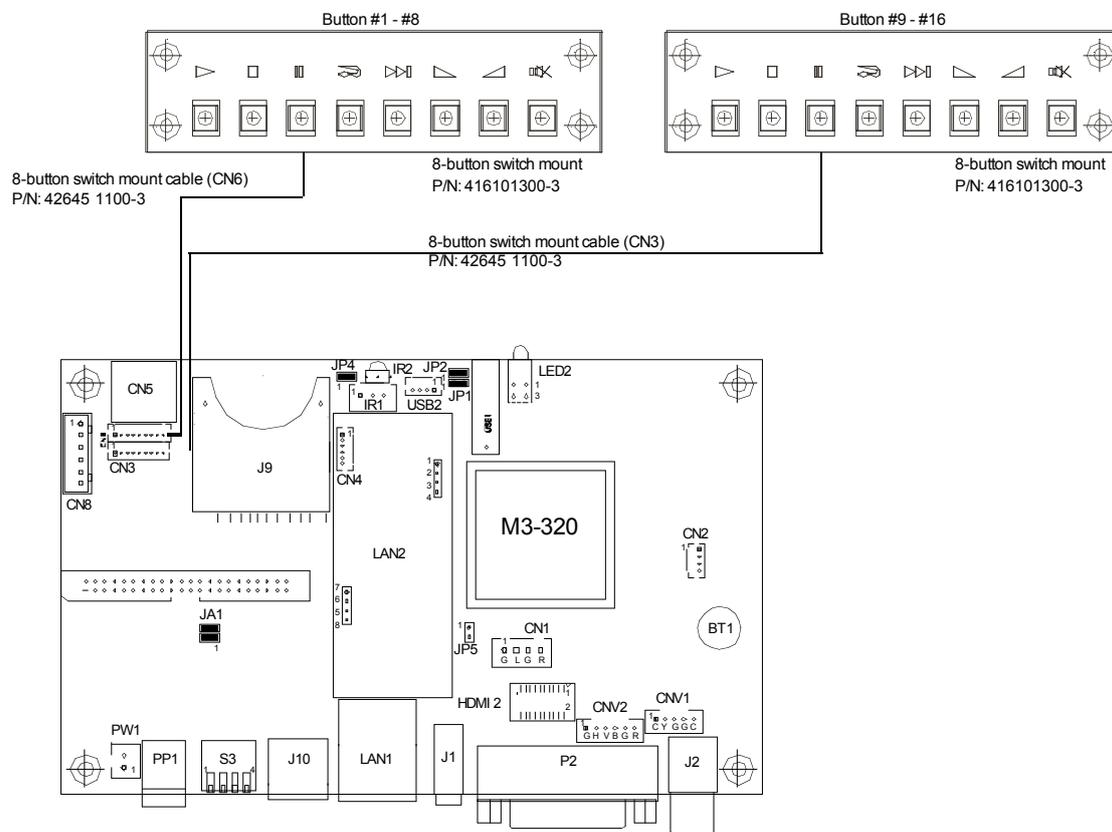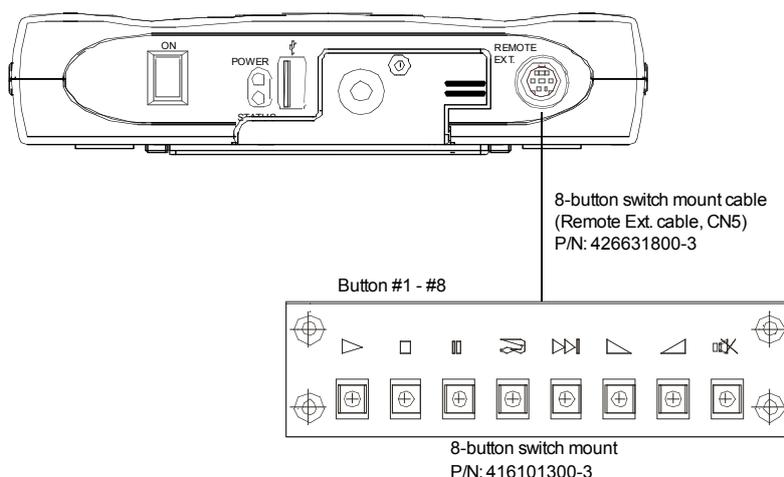## 2.4 Connection with RM-DN5, VS-500 & VS-520

2.4.1 Connect 8-button with RM-DN5

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

Button #1 to Button #8

8-button switch mount
P/N: 416101300-3

8-button switch mount cable
(CN3 & CN6)
P/N: 42645 1100-3

2.4.2 Connect 16-button with RM-DN5

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the button connector CN6 via the standard switchmount cable (P/N:426450100-3)

- Use the switchmount (P/N:416101300-3) for 9-16 buttons when connected to the button connector CN3 via the standard switchmount cable (P/N:426450100-3)

2.4.3 Connect 8-button with VS-500 & VS-520

- Use the switchmount (P/N:416101300-3) for 1-8 buttons when connected to the Remote Ext. socket (CN5) via the standard cable (P/N:426631800-3)

8-button switch mount cable
(Remote Ext cable, CN5)
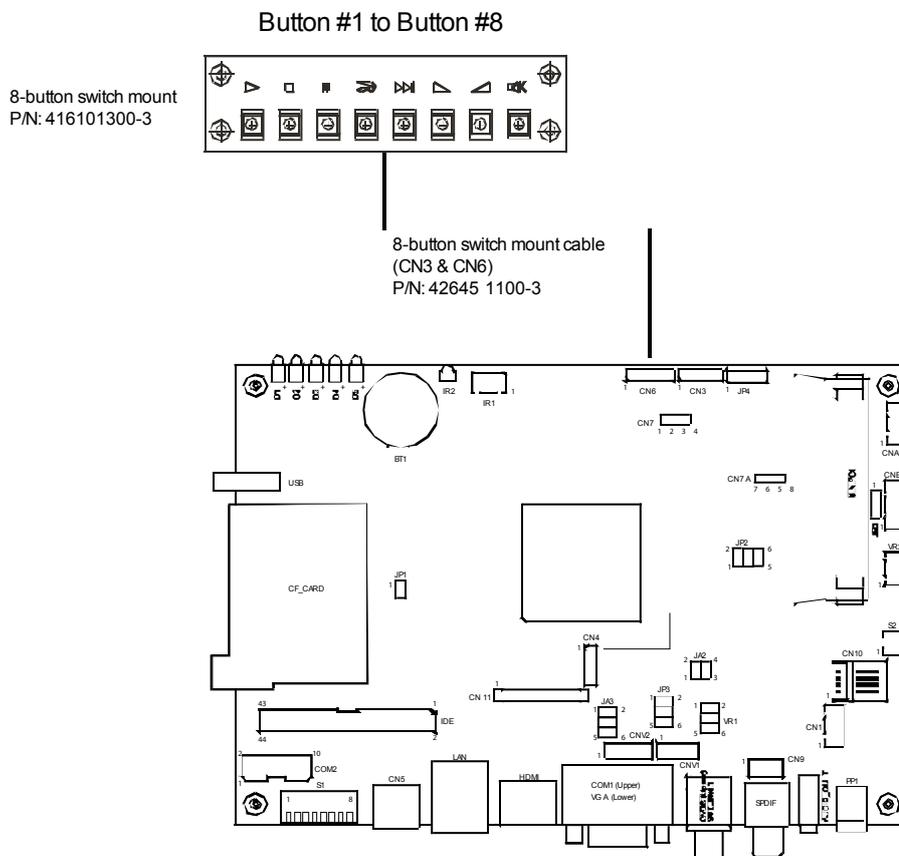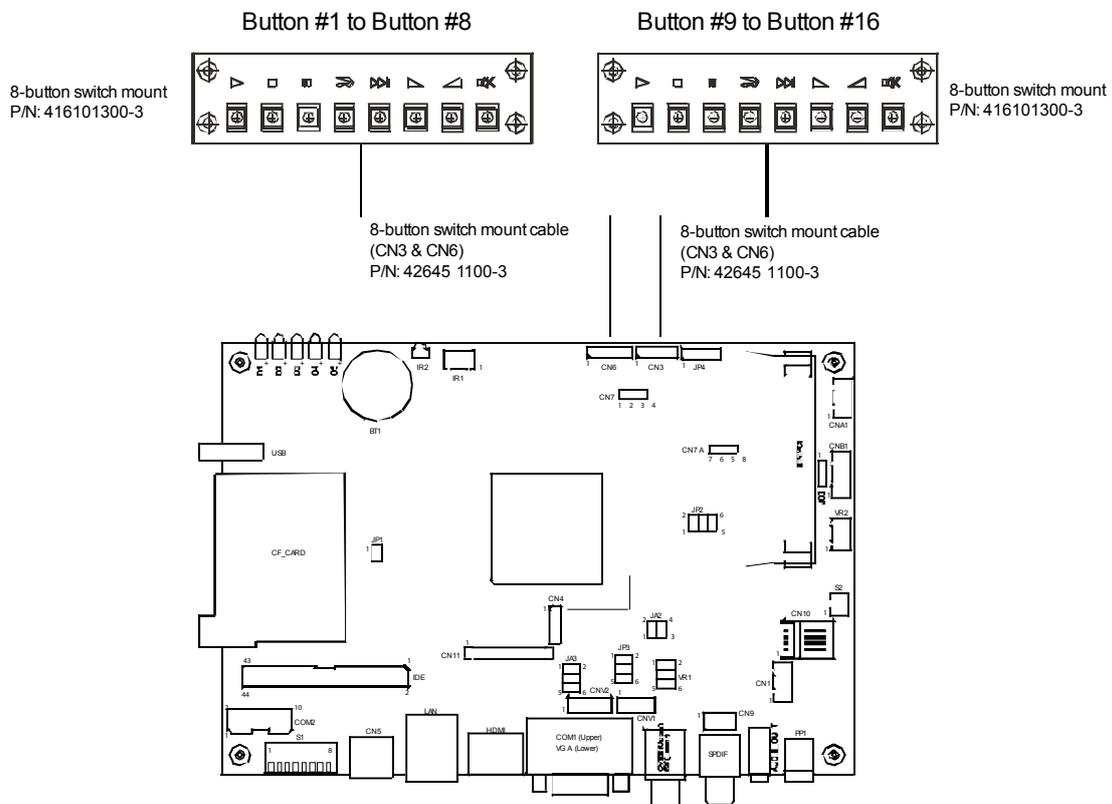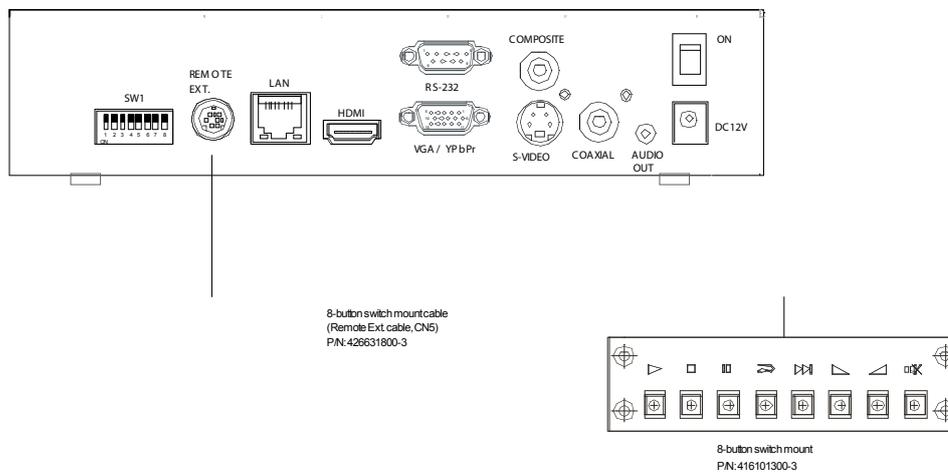P/N:426631800-3

8-button switch mount
P/N:416101300-3

Important note: There is no additional button connector for #9 - #16 available on VS-500. However, it is possible to access button #9 - #16 on VS-500 but a custom-made housing design is required. Please contact your local Digital View distributors for more details.

3 Playlist configuration

For whatever type of buttons are used including the ITO touch screen type, each button function can be programmed with **DV Studio** to perform a video player mode function or specific track select function**.**

The button control has two modes of operation - simple playback mode and playlist mode.

3.1 Simple playback mode

When using simple playback mode, the function of all buttons 1 to 8 has been preset.

The preset function for button (#1-#8) is:

Button	#1	#2	#3	#4	#5	#6	#7	#8
Function	Play	Stop	Pause	Repeat	Next	Vol -	Vol +	Mute

Note: There are no functions for buttons 9-16 in simple playback mode.

3.2 Playlist mode

In playlist mode both a playlist file (.pll) and project file (.prj) are required. These are created by DV Studio.

3.2.1 Playlist Creation

In the Button settings area, you are able to define the action events of each push button for each track.

- Highlight the track in playlist window.

- Click on the **Button** folder tab.

- Select button profile: None(no button), 8-button, 16-button or user defined).

- Highlight the Push button#.

- Choose one of action events from **Device function** option.

- The Device Function has three action events:

No function   No action when button is selected.

Play track   Jump to a specific track when button is selected.

Player mode   Nine playback functions: Play, Stop, Pause, Volume up, Volume down, Mute, Next track, Previous track and Repeat.

We have pre-defined two button profiles (8 buttons and 16 buttons) in DV Studio.

The following is the default settings in device function for these two profiles.

8 Buttons Profile

	No function	Play track	Player mode
Push button # 1	☐	☐	☑ Play
Push button # 2	☐	☐	☑ Stop
Push button # 3	☐	☐	☑ Pause
Push button # 4	☐	☐	☑ Repeat/Continue toggle
Push button # 5	☐	☐	☑ Next track
Push button # 6	☐	☐	☑ Volume Down
Push button # 7	☐	☐	☑ Volume Up
Push button # 8	☐	☐	☑ Mute

16 Buttons Profile

	No function	Play track	Player mode
Push button # 1	☐	☐	☑ Play
Push button # 2	☐	☐	☑ Stop
Push button # 3	☐	☐	☑ Pause
Push button # 4	☐	☐	☑ Repeat/Continue toggle
Push button # 5	☐	☐	☑ Next track
Push button # 6	☐	☐	☑ Volume Down
Push button # 7	☐	☐	☑ Volume Up
Push button # 8	☐	☐	☑ Mute
Push button # 9	☑	☐	☐
Push button # 10	☑	☐	☐
Push button # 11	☑	☐	☐
Push button # 12	☑	☐	☐
Push button # 13	☑	☐	☐
Push button # 14	☑	☐	☐
Push button # 15	☑	☐	☐
Push button # 16	☑	☐	☐

Step 5: After finishing all the required settings ensure you deploy the Playlist and/or save the playlist so it can be amended at a later date.

4 Pin Assignments

4.1 Button Circuit diagram

The following circuit diagram illustrates each button connection on CN3, CN5 and CN6.
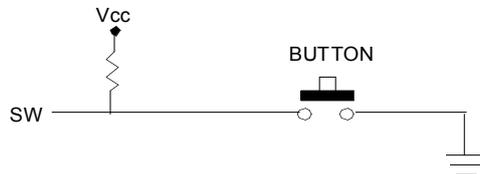
4.2 Switch and Button connector

CN5 – Remote Ext. connector (#1 - #8)
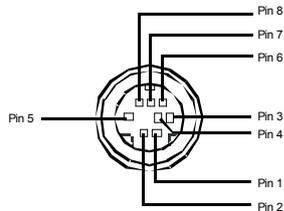
PIN	SYMBOL	DESCRIPTION
1	SW1	Button 1
2	SW2	Button 2
3	SW3	Button 3
4	SW4	Button 4
5	SW5	Button 5
6	SW6	Button 6
7	SW7	Button 7
8	SW8	Button 8
The shielding of connector is grounded.		

CN6 - Switches and buttons connector (#1 - #8)

PIN	SYMBOL	DESCRIPTION
1	SW1	Button 1
2	SW2	Button 2
3	SW3	Button 3
4	SW4	Button 4
5	SW5	Button 5
6	SW6	Button 6
7	SW7	Button 7
8	SW8	Button 8
9	GND	Ground

CN3 - Switches and buttons connector (#9 - #16)

PIN	SYMBOL	DESCRIPTION
1	SW9	Button 9
2	SW10	Button 10
3	SW11	Button 11
4	SW12	Button 12
5	SW13	Button 13
6	SW14	Button 14
7	SW15	Button 15
8	SW16	Button 16
9	GND	Ground

DIGITALVIEW®

CONTACT DETAILS

USA: Digital View Inc.
18440 Technology Drive
Building 130
Morgan Hill, CA 95037
Tel: (1) 408-782 7773   **Fax**: (1) 408-782 7883
Sales: ussales@digitalview.com

EUROPE: Digital View Ltd
6 Marylebone Passage
London
W1W 8EX
UK

      Tel: (44) (0)20 7631 2150   **Fax**: (44) (0)20 7631 2156
      Sales: uksales@digitalview.com

ASIA: Digital View Ltd
16th floor Millennium City 3
370 Kwun Tong Road
Kwun Tong
Hong Kong

      Tel: (852) 2861 3615   **Fax**: (852) 2520 2987
      Sales: hksales@digitalview.com

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