# TECHNICAL NOTE



Date 12th Aug 19 ref 459 Raised by: TC Distributed to: as required

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## SD7 Quantum

### Setup of external video screen to show duplicate master screen

This note is intended for users wishing to use the overview output to show a duplicate of the master screen, in addition to the normal overview screen. This is typically used for demonstration purposes or remote monitoring of a mirrored engine.

It is assumed the operator performing this change is familiar with the setup and operation of the HORM system to setup overview screen as detailed in Technical Note 418.

Procedure

The access the HORM system quit to Windows from the mixer program. When working in Windows on SD7, always quit BOTH engines to Windows before further actions.

Touch "Quit to Windows" under the system button.

Click on the start button on the Windows task bar See the selection of programs available

### Click on SD7Q HORM



This will open the HORM operating window, showing that HORM protection is active (ON)



Click "OFF" the engine will immediately shut down and restart.

This about 1/2 minute to complete

The engine will return to Windows and HORM window showing "OFF" is active

Protection is now disabled and adjustments in the operating system can be made.

Connect the monitor to be used for the duplicated display to DVI 2 output on the engine at this point.

Note that like the overview screen, only monitors that have been "paired" with this output will function in the future.

Quit the mixer to Windows again. Click on "Computer" to open explorer

Click on SD7QOS (C:)

Find the folder C:\Program Files (x86)\Matrox Graphics\PowerDesk

In the \PowerDesk folder, open Matrox.PDesk.UI.exe



#### On the Matrox UI Window click on Multi-Display Setup

See the below view. In the bottom left corner click on the "Join graphics cards" tick box

On the right hand side of the screen, go to "Basic configuration" and select "Use clone mode..."

Main display: Deblay		
Output settings for:	Display 1	
Monitor model: Recommended resol Connector type:	lution:	
Botation:	None	0
Resolution:	1024 x 768	0
Color palette:	32-bit color	0
Refresh rate:	60 Hz (DDC)	0
Apply settings t	o all outputs	
Use gtretched	purations mode nt.mode	~
Basic config Use stretched Use dong good Use independent	purations mode e nt.mode	~
Basic config Use gtretched Use gong mode Use independent Favorites	gurations mode e nt.mode	~
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	1 Clone (6)	-
	1 Clone (7)	
	1 Clone (8)	
- WC		
automatic	ally configure your multi-display desktop, choo	se the

Click the folded corner of the display setup to change displays.

Windows display	FA Feature dealer
1 Output	1+ Matrox output in done mode
iLep	end (Click to collapse) a
E	34+
sed outputs	/ setup, right-dick your displays and outputs or
graphics cards	

Click and drag on B3, B2, B1, A4, A3, A2 to form separate icons which can be scattered around the screen

This leaves B4+ and A1+ layered under 1 icon (as the cloned screens):

If you accidentally separate these two, click and drag one back over the other to reform 1 icon

Now drag the scattered icons back into the pattern below

Note how the A1+ and B4+ icons are merged as one leaving 7 icons visible.

	ALege	nd (Click to co	llapse) i	
		7 B3		
	<sup>5</sup> B1	<sup>4</sup> A4	6 B2	
	<sup>2</sup> A2	A1+	<sup>3</sup> A3	
used outputs —				

Click "Apply" then click yes to restart the PC and apply the changes:

nav setu

Action output in done mode      Matter reader      Matter autout in done mode      Matter model:      Matter model:      Matter model:      Matter autout in done mode      Matter model:      Matter autout in done mode      Matter model:      Matter      Matter model:      Mater      Matter model:      Mater      Matter model:      Matter m	Main duplay: Diplay 1	FA Peables distar
Altered and decard the changes.	- Output settings for: Display 7	
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Improved tCacked       The setup you want to apply generated the following warnings. Do you want to continue?       260         Image: Bag       Image: Bag       Image: Bag       Image: Bag         Image: Bag       Image: Bag       Image: Bag       Image: Bag       Image: Bag         Image: Bag<		Hatrox PowerDesk
B3 <sup>4</sup> A4 <sup>1</sup> A14 <sup>9</sup> Yes Continue and apply the changes anyway <sup>9</sup> Control and discard the changes.	o apply generated the 260 Do you want to continue? 260	The setup you want to following warnings. D
Yes     Continue and apply the changes anyw	o take effect, your computer started.	B3 DEFor changes to be res
Cancel and discard the changes.	Cirra agen	O Yes Continue and apply the char
	nges.	Cancel and discard the chan
display setup, right-click your displays and outputs or		display setup, right-dick your displays and outputs or
O Boply	O Apply	

Repeat this procedure on the other engine if required.

On completion of the Matrox UI changes turn HORM back ON. The console will restart and boot to application.



**NOTE:** HORM sometimes fails to create a hibernate file. To make sure that your system is correctly protected, check that the size of your C drive usage has doubled.

#### General Notes

It will be seen this setup can be used to duplicate any of the mixer internal and overview screens to DVI 2 output.

Note the DVI 1 (B3) output is used within the mixer software exclusively for overview and should not be used for any other purpose, even if overview is not required.

The DVI "test" output is not accessible from the mixer operating system.