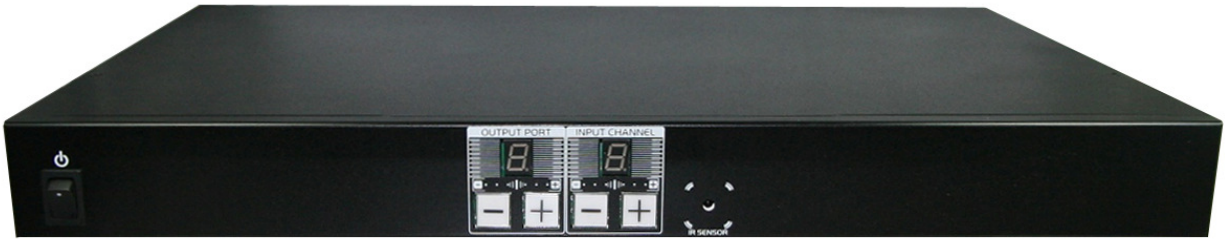
CONNECTION PERFECTION

8x8 DVI Matrix

Manual ***English***



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www.lindy.com

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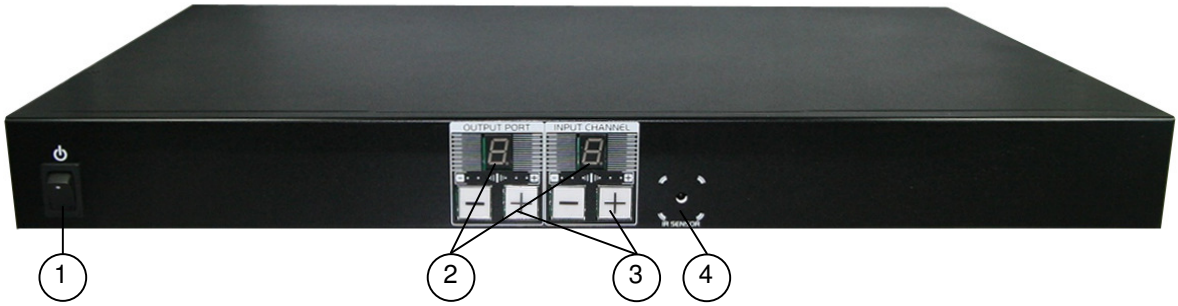
Manual

Thank you for purchasing the LINDY 8x8 DVI-D Single Link Matrix with remote control. This high performance matrix offers maximum convenience in DVI distribution when you have multiple DVI sources and displays to connect together. Each of the eight DVI inputs can be directed to any of the eight DVI outputs, so your displays can show up to eight different sources at the same time.

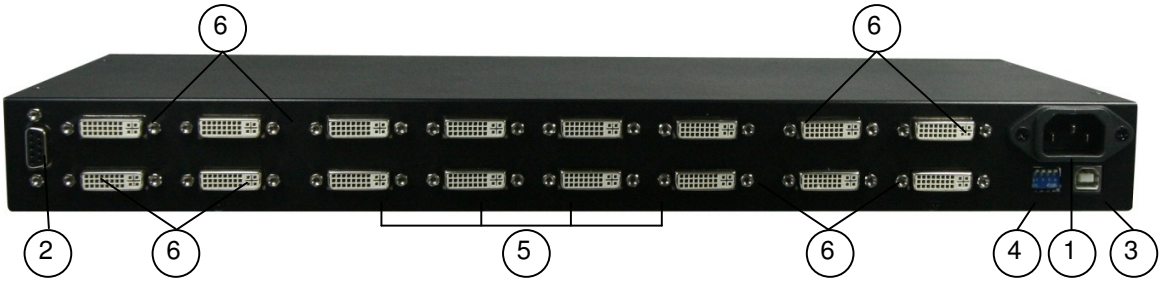
- DVI 1.0 Compatible (Single Link)
- Supports resolutions up to 1920 x 1200 (WUXGA) & 1080p
- Support for the EDID function
- Switch channels using RS-232, USB or IR remote control
- Single-link 165MHz (4.95Gbps)

Front Panel



1. Power switch
2. Seven segment LED indicator
3. Input/Output indicators: Press the + or – switch on the input/output buttons to select the source and display desired
4. IR receiver

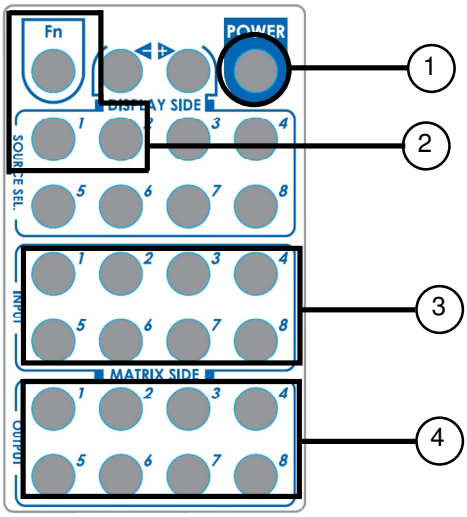
Rear Panel



1. AC power input: 100-240V
2. RS-232 Communication port
3. USB control port
4. Main dip switches
5. DVI output ports
6. DVI input ports

Remote Control

1. Power: Turn the unit on/off
2. Source select: Only buttons 1 & 2 are used in this area. These are used in conjunction with the “Fn” button
3. Input: Press 1-8 to select the desired input
4. Output: Press 1-8 to select the desired output



To use the remote control to switch channels, first select the input you require and then select the output/outputs you would like it to display on. Repeat this for multiple pictures on multiple screens. The channel switching takes approximately 2 seconds.
Fn + Source Sel 1 = Escape system lock
Fn + Source Sel 2 = System lock. The remote control becomes inactive except for the above command.

Dip switches

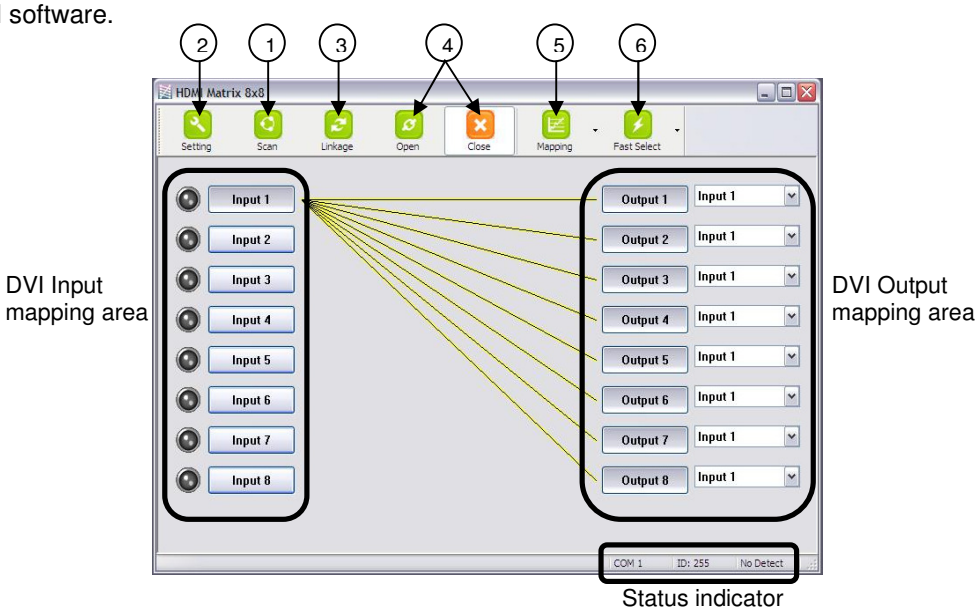
Dip Switch Position		Pin #1	Pin#2	Pin#3	Pin#4
Operation mode via RS-232 Port[1]		OFF (↑)	OFF (↑)	OFF (↑)	OFF (↑)
Operation mode via USB Port[2]		OFF (↑)	OFF (↑)	OFF (↑)	On (↓)
Firmware update mode[3]	Block A Main	On (↓)	OFF (↑)	OFF (↑)	OFF (↑)
	Block B Remote	On (↓)	On (↓)	On (↓)	OFF (↑)

1. Factory default setting, all pins set to “off”. This is the default mode for RS-232 control.
2. For USB control, set Pins 1, 2 & 3 to “off” and Pin 4 to “on”.
3. Firmware update mode can only be used via RS-232 with the PC set to COM1.
   a. Power off your LINDY 8x8 DVI Matrix and connect your serial cable to the RS-232 port and serial port of your PC.
   b. Execute the firmware update program on your PC via the COM 1 port.
   c. Set Pin 1of Black A Main to the “on” position for firmware update mode.
   d. Set Pins 2 & 3 to the respective positions to assign which block is to be updated.
   e. Power on your Matrix and the firmware update program should begin the update sequence automatically. (If the program does not start, check the cable connections).
   f. Once the firmware update sequence has completed, the screen will display “OK”, at this point turn off the Matrix.
   g. When all updates are complete, set the dip switches to normal operation mode.
   h. Power on the LINDY 8x8 DVI Matrix.

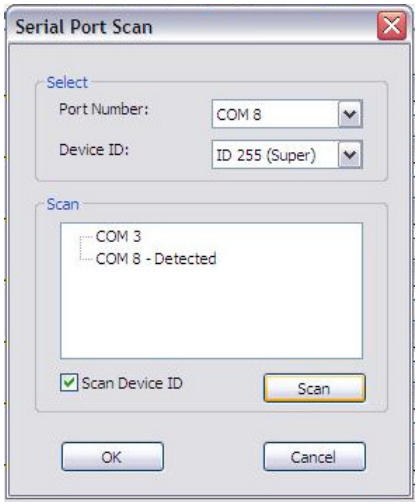
Software installation & control

Note: before inserting either the USB or serial cable, make sure that the main dip switches are set to the correct position. Incorrect dip switch settings will result in the DVI Matrix not being picked up on the PC com port.

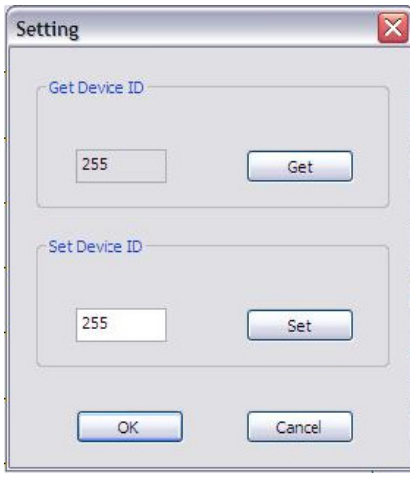
1. Plug either a USB A male to female cable or serial cable in to the back of the Matrix and your computer.
2. For USB the computer will show that new hardware has been found. Click next to continue and click finish at the end.
3. When the hardware has fully installed, insert the CD provided.
4. Open the folder “01 control program\control program 8x8 DVI matrix\8x8 DVI matrix setup” This will install the Matrix control software.



5. Scan: Press the “scan” button, select “scan”, then select the detected port and click OK.



6. Setting: Press the “setting” button then press the “get” button to read back the device ID. Press the “set” button to write the device ID.



7. Linkage: Press the “linkage” button to read back all the status ID’s.

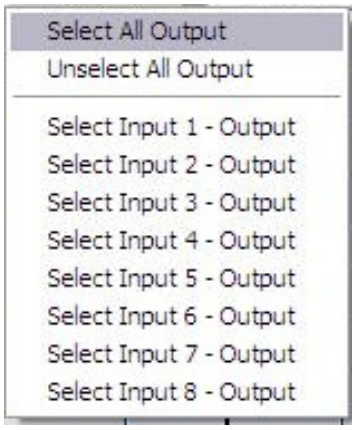
8. Open/Close: Press either the “open” or “close” button to open or close the COM port.

9. Mapping:

   Select All Output: Click on “Select All Output” then select the source on the main menu. This quickly sets all the outputs to the same source.

   Unselect All Output: This releases all the outputs

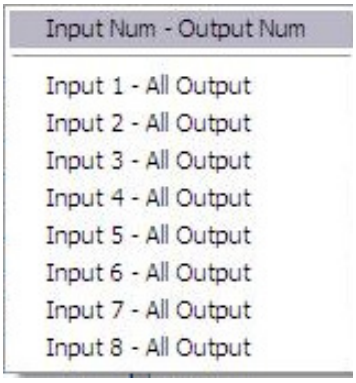
   Select Input 1~8 Output: Select the input source, then select the output port icon.
   Example: click on “Select Input 1 – Output”, then select output port 1 & 2. The video and audio will be sent to port 1 & 2.



10. Fast Select:

Input Num – Output Num: This will set all input Ports to its corresponding output port ie. 1 to 2, 2 to 2

Input 1-8 – All Output: Quickly send the same source to all outputs



Command Set

RS-232 Transmission format:

- Baud rate: 9600 bps
- Data length: 8 bits
- Parity check: None
- Stop bit: 1 bit

Full details of the RS-232 protocols can be found on the CD provided

COMMAND	ACTION	COMMAND	ACTION	COMMAND	ACTION
ST	System Status	C5	Output C select Input 5	F3	Output F select Input 3
VR	Firmware Version	C6	Output C select Input 6	F4	Output F select Input 4
A1	Output A select Input 1	C7	Output C select Input 7	F5	Output F select Input 5
A2	Output A select Input 2	C8	Output C select Input 8	F6	Output F select Input 6
A3	Output A select Input 3	D1	Output D select Input 1	F7	Output F select Input 7
A4	Output A select Input 4	D2	Output D select Input 2	F8	Output F select Input 8
A5	Output A select Input 5	D3	Output D select Input 3	G1	Output G select Input 1
A6	Output A select Input 6	D4	Output D select Input 4	G2	Output G select Input 2
A7	Output A select Input 7	D5	Output D select Input 5	G3	Output G select Input 3
A8	Output A select Input 8	D6	Output D select Input 6	G4	Output G select Input 4
B1	Output B select Input 1	D7	Output D select Input 7	G5	Output G select Input 5
B2	Output B select Input 2	D8	Output D select Input 8	G6	Output G select Input 6
B3	Output B select Input 3	E1	Output E select Input 1	G7	Output G select Input 7
B4	Output B select Input 4	E2	Output E select Input 2	G8	Output G select Input 8
B5	Output B select Input 5	E3	Output E select Input 3	H1	Output H select Input 1
B6	Output B select Input 6	E4	Output E select Input 4	H2	Output H select Input 2
B7	Output B select Input 7	E5	Output E select Input 5	H3	Output H select Input 3
B8	Output B select Input 8	E6	Output E select Input 6	H4	Output H select Input 4
C1	Output C select Input 1	E7	Output E select Input 7	H5	Output H select Input 5
C2	Output C select Input 2	E8	Output E select Input 8	H6	Output H select Input 6
C3	Output C select Input 3	F1	Output F select Input 1	H7	Output H select Input 7
C4	Output C select Input 4	F2	Output F select Input 2	H8	Output H select Input 8

CE/FCC & Recycling Information

CE Certification

This equipment complies with the requirements relating to electromagnetic compatibility, EN55022/EN55024 class B for IEC/EN61000-4-2/3 the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced technician for help

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.
Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany

Die Europäische Union hat mit der WEEE Direktive umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet vom 24.März 2006 an das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.
Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.
Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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