

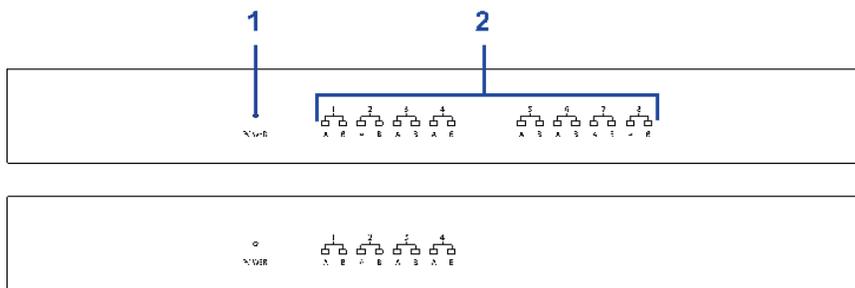
MasterConsole Digital DUAL

Thank you for purchasing the MasterConsole Digital Dual KVM switch.

This Quick Setup Guide explains how to quickly install and use the product. For further details on using this product, access its Online Help or User Guide on the Raritan Support page.

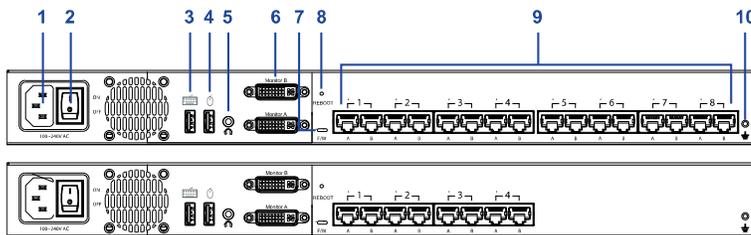


Front View



| | | |
|-----|---------------------|--|
| ▶ 1 | Power LED | White LED lights on after powering on the MCD-DUAL. |
| ▶ 2 | Channel LEDs | "inactive" channels with LEDs light off. "active" channels with White LEDs light on. "being accessed" channels with Green LEDs light on. |

Rear View



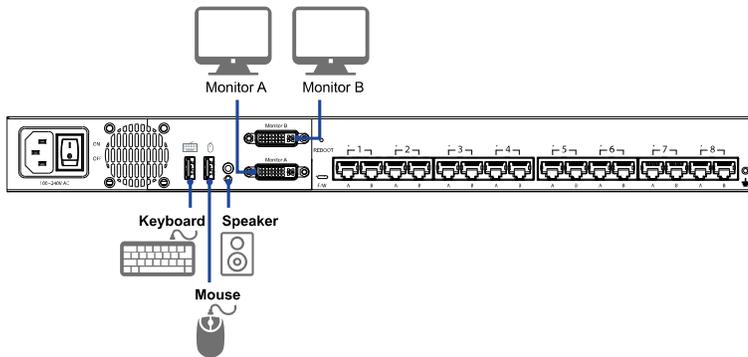
| | | |
|------|---|--|
| ▶ 1 | Power Socket | Connect the power cord. |
| ▶ 2 | Power Switch | Toggle the power on or off. |
| ▶ 3 | USB Port (keyboard) | Connect a USB keyboard. |
| ▶ 4 | USB Port (mouse) | Connect a USB mouse. |
| ▶ 5 | Audio Output Port | Connect audio input devices, such as speakers or headphone. |
| ▶ 6 | 2 x DVI-I Connector (Monitor A/ Monitor B) | Connect monitors. OSD will show on Monitor A only. (If your monitor does not have a DVI connector, a video converter or adapter is required.) |
| ▶ 7 | Firmware Upgrade Connector | Connect a computer for upgrading the MCD-DUAL's firmware. |
| ▶ 8 | Reboot Button | Reboot this KVM switch. |
| ▶ 9 | Channel Ports | Connect to computers, each channel with 2x RJ45 ports. |
| ▶ 10 | Chassis Ground | An easy-to-connect chassis ground to prevent any electrical shock. |

Installation

Note: Please turn off all MCD-DUAL and computers before system installation.

Console Connection

Connect a USB keyboard/mouse, speaker and monitors to the connectors on the MCD-DUAL. (If using a VGA monitor, a DVI-I to VGA adapter is required.)



Choose appropriate MDCIMs or MDUTP cables according to your computer's video port and audio requirements.

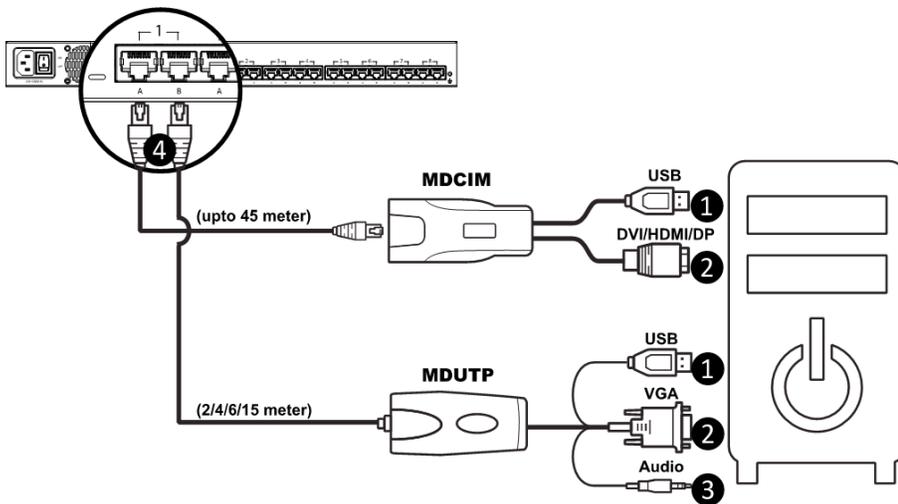
| MCD CIM type | Video type | Audio transmission |
|--------------|--------------|-----------------------|
| MDUTP cables | VGA | Support analog audio |
| MDCIM-HDMI | HDMI | Support digital audio |
| MDCIM-DVI | DVI | NO support |
| MDCIM-DP | Display Port | NO support |

Note: If the MDCIM or MDUTP cable you purchase is not compatible with the video port on your computer, the alternative solution is to use a video converter or adapter to connect MDCIM or MDUTP.

Computer Connection

► One-tier Connection

- Plug the MDCIM or MDUTP cable's USB connectors into one of the computer's USB ports.
- Plug the MDCIM or MDUTP cable's video connectors into the computer's video ports.
- Optionally, plug the MDUTP cable's audio connector into the computer's audio output port.
- Connect the MDCIM to MCD-DUAL by using a standard network patch cable (Cat5e/6 UTP). The MDUTP is combined with a standard network patch cable; you can use it to connect with MCD-DUAL directly.
- Repeat the above steps to connect more computers.
- **Note:** Please make sure the MDCIM or MDUTP must connect to the same channel of MCD-DUAL.



► Two-tier Connection:

► Step A

1. Plug the MDCIM-DVI cable's USB connectors into the 2nd-tier MCD-DUAL's USB Keyboard port.
2. Plug the MDCIM-DVI cable's DVI connectors into the 2nd-tier MCD-DUAL's Monitor 1 port.
3. Connect the MDCIM-DVI to "Channel 1: RJ45 Port A" of the 1st-tier MCD-DUAL by using a standard network patch cable (Cat5e/6 UTP).

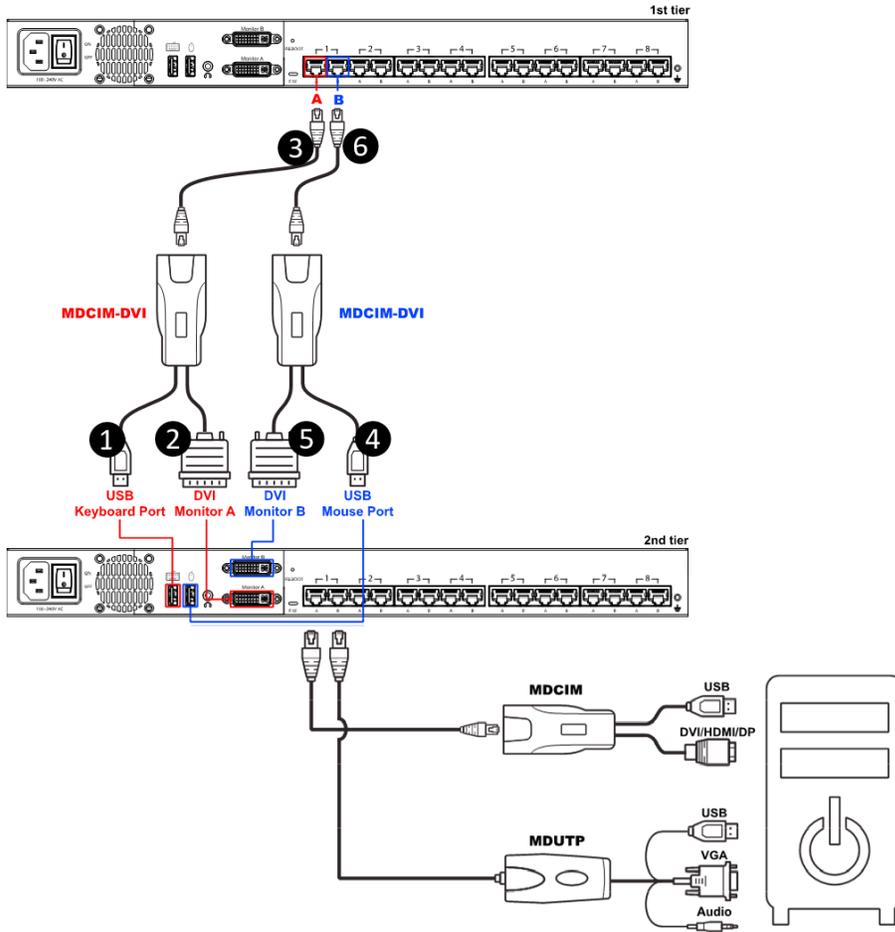
► Step B

1. Plug the MDCIM-DVI cable's USB connectors into the 2nd-tier MCD-DUAL's USB Mouse port.
2. Plug the MDCIM-DVI cable's DVI connectors into the 2nd-tier MCD-DUAL's Monitor 2 port.
3. Connect the MDCIM-DVI to "Channel 1: RJ45 Port B" of the 1st-tier MCD-DUAL by using a standard network patch cable (Cat5e/6 UTP).

► Step C

1. Repeat the above steps to connect more 2nd-tier MCD-DUAL

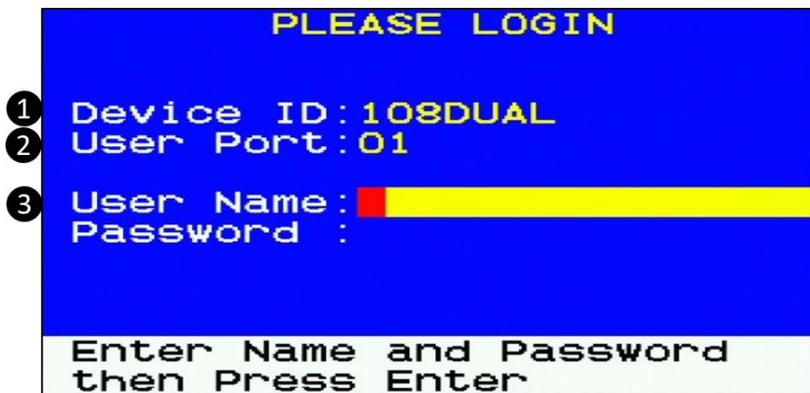
2. Repeat the steps of "One-tier Connection" to connect more computers.



On-Screen Display Interface

Login Screen

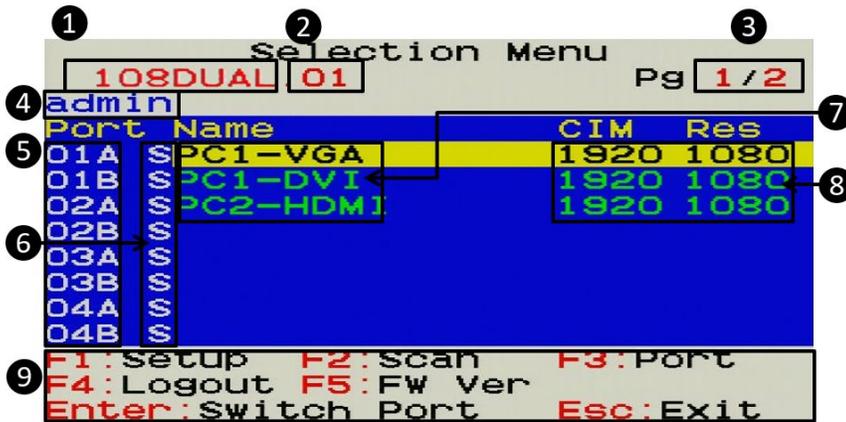
After turning on the device, the login screen displays. For initial login, use the built-in administrator account and password. (admin/raritan)



| | | |
|-----|--|---|
| ▶ 1 | Device ID | The model name of your MCD-DUAL. |
| ▶ 2 | User Port | The ID number of your console |
| ▶ 3 | User Name (16 Characters Long) Password (8 Characters Long) | The fields for entering user credentials. The user name and password can consist of any of combination letters and numbers. |

Selection Menu

After the successful login, the Selection Menu displays.



| | | |
|-----|---|---|
| ▶ 1 | Model Name | Your MCD-DUAL's model name |
| ▶ 2 | Selected Channel | The number of the channel that is being accessed |
| ▶ 3 | Page Information | The current page number and total pages |
| ▶ 4 | Login ID | The currently used login ID |
| ▶ 5 | Channel Numbers | Channel numbers of current page |
| ▶ 6 | Mouse Switch Function (*) Status | When the function is enabled, the letter "S" will appear. You can press the S key on the keyboard to switch this function. |
| ▶ 7 | Channel Names | Available channel names of current page. The channel connected with a 2nd-tier MCD-DUAL will be marked with the symbol "+". |
| ▶ 8 | CIM Resolution | The current resolution setting of MDCIM or MDUTP |
| ▶ 9 | Operation Keys | Frequently-used keys for operating the current OSD |

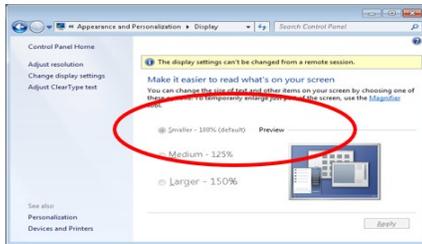
▶ (*) About Mouse Switch Function:

The Function is for channel selection by moving the mouse cursor to the left or right side of display borders, and then the MCD-DUAL will switch to prior or next channel.

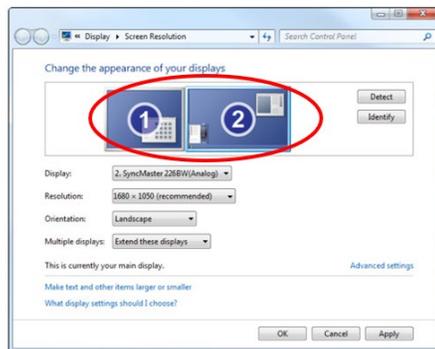
- This default setting is disabled and only available for computers connecting to 1st-tier MCD-DUAL.
- Once the computer is powered back on from Hibernate Mode, you have to calibrate the mouse cursor by pressing Hotkey > Hotkey > H > Enter.

- Before enabling this function, you must do the following three settings on your computer.

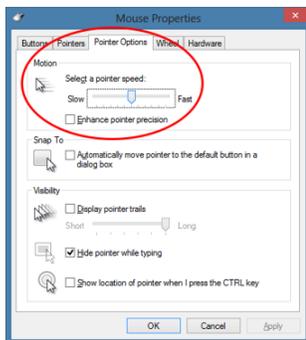
1. In the Display Settings: Change Display Setting to "Smaller - 100%"



2. In Display Settings, choose "Adjust Resolution". Drag the monitor icon to the left and make sure the corresponding video output is connected to the "RJ45 Port A". Finally align these two monitor icons to the top.



3. In Mouse Settings, Adjust Pointer Speed in the middle value to and turn off Enhance Pointer Precision.



► 2nd-tier Selection Menu

After selecting any channel with a 2nd-tier MCD-DUAL connected, the Selection Menu of that switch appears.



| | | |
|-----|----------------------------------|--|
| ▶ 1 | Model Name | Your 1st-tier MCD-DUAL's model name |
| ▶ 2 | 1st-tier Channel | The channel number of the 1st-tier MCD-DUAL where the 2nd-tier MCD-DUAL is connected |
| ▶ 3 | Selected 2nd-tier Channel | The channel number of the 2nd-tier MCD-DUAL that is being accessed |
| ▶ 4 | 2nd-tier Channel Names | 2nd-tier channel names |

Setup

On the Selection Menu, press F1. The SETUP Menu displays.

```

SETUP
PSSL: High
Mouse Switch: ON
Scan Mode: All
Scan Time: 005Seconds
ID Display: 010Seconds
Position: Menu
ID
Hotkey: Scroll Lock
BUZZER: ON
Audio: OFF
↑↓: Select      F5: User Config
↔: Change Settings
Esc: Save and Return
    
```

* PSSL: Port Switching Sensitivity Level

User Configuration

On the SETUP Menu, press F5. The User Configuration Menu displays.

```

User Configuration
N0 Username
001 admin
002 User001
003 user002
004 user003
005 user004
006 user005
007 user006
008 user007
PageUp: Prev Page   ↑↓: move
PageDn: Next Page   F1: Security
Enter: Edit         Esc: Exit
    
```

- **Note:** Operation Keys "F1" is not available to setup admin's Port Access right.

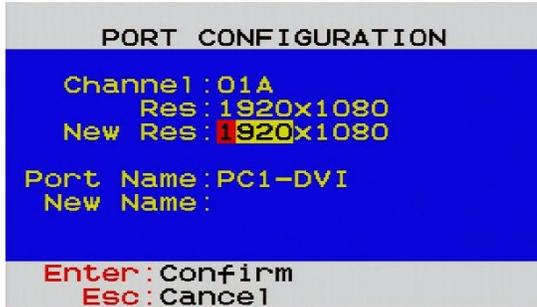
On the User Configuration Menu, press F1. The User Port Access Setup Menu displays.

```

Port Access Setup
108DUAL. Pg 1 / 1
user001
Access Port
[V] 001
[V] 002
[V] 003
[V] 004
[V] 005
[V] 006
[V] 007
[V] 008
↔: Access Change   ↑↓: move
ENTER: Tier2      Esc: Exit
    
```

Port Configuration

On the Selection Menu, press F3. The Port Configuration Menu displays.

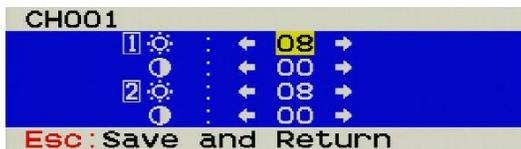


Note: Before enabling Mouse Switch Function, you must set the port's resolution the same as the corresponding computer video output.

Video Adjustment

You can adjust the brightness and contrast of the channel that is being accessed.

1. Select the desired channel to have its video shown on the screen.
2. Press the hot key twice, then the letter "c" and finally press Enter. With the default hot key "Scroll Lock", you should press:
 3. Scroll Lock > Scroll Lock > C > Enter
4. The following video properties appear onscreen.
 - Press the UP and DOWN arrows to select the brightness or contrast. Press the LEFT and RIGHT arrows to adjust the value of brightness or contrast.



Viewing Firmware Version

Press F5 on the Selection Menu page. The firmware information displays.

Resetting to Factory Defaults

1. Press F4 to log out and show the Login screen.
2. Press Ctrl + Shift + F10. The following message appears.



3. Press Enter to proceed with the factory reset. The following message appears. Wait until the Login screen re-appears, indicating the reset is completed.

Hotkey Summary Table

Hotkeys are executed using only the keyboard.

The default hotkey is [Scroll Lock] and can be changed in OSD menu.

Keying Hotkey command must be completed with 6 seconds, or it will be aborted if exceeding.

► Hotkey Summary Table

| # | Hotkey Command | Function | Description |
|---|---|--|--|
| 1 | Hotkey > Hotkey > Hotkey | Enter OSD | Press the hotkey three times to trigger the OSD. With the default hotkey "Scroll Lock", you should press: Scroll Lock > Scroll Lock > Scroll Lock |
| 2 | Hotkey > Hotkey > N + Enter | Access Channel N | Press 'Hotkey' twice, then the channel number, and press Enter. For example, to access channel 3, press the following keys: Scroll Lock > Scroll Lock > 3 > Enter |
| 3 | Hotkey > Hotkey > C > Enter See Video Adjustment | Adjust a Channel Video of First-tier MCD-DUAL | Press the hotkey twice, then the letter "C" and finally press Enter. With the default hotkey "Scroll Lock", you should press: Scroll Lock > Scroll Lock > C > Enter |
| 4 | Hotkey > Hotkey > D > Enter See Video Adjustment | Adjust a Channel Video of Second-tier MCD-DUAL | Press the hotkey twice, then the letter "D" and finally press Enter. With the default hotkey "Scroll Lock", you should press: Scroll Lock > Scroll Lock > D > Enter |
| 5 | Hotkey > Hotkey > H > Enter See Borderless Mouse Switching | Mouse Cursor Calibration | Make sure Borderless Mouse Switching is on. Press the hotkey twice, then the letter "H" and finally press Enter. With the default hotkey "Scroll Lock", you should press: Scroll Lock > Scroll Lock > H > Enter |
| 6 | Ctrl > Ctrl | Access the next or prior "active" channel | Make sure there is no OSD shown onscreen. To select the next "active" channel, press the RIGHT 'Ctrl' key twice. Ctrl > Ctrl To select the prior "active" channel, press the LEFT 'Ctrl' key twice. Ctrl > Ctrl |
| 7 | Ctrl + Shift + F10 + Enter See Resetting to Factory Defaults | Resetting to Factory Defaults | Press F4 to log out and show the Login screen. Press Ctrl + Shift + F10 then press Enter to proceed with the factory reset. |
| 8 | Ctrl + F1 See Login Screen | Modify Keyboard Language Layout | Press F4 to log out and show the Login screen. Press Ctrl + F1 to modify the keyboard language layout. (EN33,FR08,GR09) Press the language number, then the "ESC" to finish the setting. For example, to choose English Keyboard, press the following keys: 33 > ESC |