User Manual

Matrix Cat6 KVM
MC1116 / 2116
MC1132 / 2132

Matrix Cat6 KVM
MC0116 / 0216 / 0316
MC0132 / 0232 / 0332
Safety Instructions
Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don’t use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment’s power cord in such a way that others won’t trip or fall over it.
- If you are using a power cord that didn’t ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don’t intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover
- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)
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.

Any changes or modifications made to this equipment may void the user’s authority to operate this equipment. 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:
- Re-position 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.
Contents

< Part 1 > Matrix Cat6 IP KVM

<table>
<thead>
<tr>
<th>MC1116</th>
<th>MC2116</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC1132</td>
<td>MC2132</td>
</tr>
</tbody>
</table>

1.1 Package contents P.1
1.2 KVM port & Cat6 dongle connection P.2
1.3 IP, Remote & Local console connection P.3 - 4
1.4 IP console setting P.5
1.5 Important Preconfiguration for IP console P.6 - 7
1.6 KVM Cascade P.8
1.7 Specifications P.9

< Part 2 > Matrix Cat6 KVM

<table>
<thead>
<tr>
<th>MC0116</th>
<th>MC0216</th>
<th>MC0316</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC0132</td>
<td>MC0232</td>
<td>MC0332</td>
</tr>
</tbody>
</table>

2.1 Package contents P.11 - 12
2.2 KVM port & Cat6 dongle connection P.13
2.3 Remote & Local console connection P.14 - 15
2.4 KVM Cascade P.16
2.5 Specifications P.17

< Part 3 > Usage

3.1 KVM Button P.18
3.2 Password P.19
3.3 KVM OSD P.20
3.4 KVM Hotkey / Remote Console Hotkey P.21
3.5 Resolution Support Information P.22
Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

Installation for standalone KVM

![Diagram of KVM installation]

- Install each bracket using screws provided shown in Figure 1.
- Fix the KVM into the rack.

<table>
<thead>
<tr>
<th>Screw A: 2 pcs</th>
<th>Screw B: 8 pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3.2 x 4.5 mm</td>
<td>M4 x 10 mm</td>
</tr>
</tbody>
</table>
Part 1. Matrix Cat6 KVM

< 1.1 > Package Contents

- MC1116 or MC1132 or MC2116 or MC2132 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 1
- Power adapter w/ power cord (for receiver) x 1
- CE-6 6ft Combo KVM cable for receiver box x 1

Local Console Remote Console 1

MC116

Local Console Remote Console 1

MC1132

Local Console Remote Console 1

MC2116

Local Console Remote Console 1

MC2132
**IF-DUSBD DVI-USB dongle**
- To connect DVI-D connector to the computer’s video card
- To connect USB connector to the computer’s USB port

**IF-DUSB VGA-USB dongle**
- To connect DB-15 connector to the computer’s video card
- To connect USB connector to the computer’s USB port

**IF-DPS2 VGA-PS/2 dongle**
- To connect DB-15 connector to the computer’s video card
- To connect PS/2 keyboard connector to the computer’s keyboard port
- To connect PS/2 mouse connector to the computer’s mouse port
How to use a receiver to connect a remote console

The receiver provides a hotkey function for remote console. Please refer to P.19

The receiver provides a hotkey function for remote console. Please refer to P.19

Local computer (Optional setup)

NE-6 Combo KVM cable

VGA cable

Cat6 cable up to 150m

12V DC Power Adapter
After the cable connection, please take the following steps to configure the IP KVM:

1. Download IPKVMsetup.exe

2. Double click IPKVMsetup.exe to configure the IP KVM by device setup as below.

3. Click Refresh Device to search the connected IP KVM
4. Select the M.A.C. address, which you want to setup, then click Query Device
5. Enter Super user login. The default is super
6. Enter Super user password. The default is pass
7. Enter the new super user password
8. Re-enter the new password
9. Change the desired IP address / Subnet mask / Gateway, then click Setup Device to confirm the setting to IP KVM
10. The default address is as below:--
    ■ The single IP KVM model, such as MC1132 - http://192.168.1.22
    ■ The dual IP KVM model, such as MC2132 - http://192.168.1.22 (for 1st IP)
       http://192.168.1.23 (for 2nd IP)

11. Open Internet Explorer (I.E.), version 6.0 or above
12. Enter the IP KVM address into the address bar
    - For Dual IP - http://192.168.1.22 (for 1st IP)
       http://192.168.1.23 (for 2nd IP)
13. Enter username (default is super)
    Password (default is pass)
14. After successful login to IP KVM, the user will enter the main page of IP KVM

The setting is enough for intranet. If the users access KVM GUI via internet, please ask MIS for assistance and download IP KVM user manual
< 1.5 > Important Preconfiguration for IP console

You must complete the following tasks after the IP console setting is performed.

(1) TARGET SERVER SETUP  **Servers connected to KVM

Resolution
The IP KVM remote console recognizes several varieties of video display formats with resolutions up to 1600 x 1200 @60Hz. (Refer to the User Manual for a list of supported video formats). Minimize bandwidth by setting the target server’s video resolution to the minimum setting required for your remote monitoring application.

The following video modes are recommended:
(i) 800 x 600 @ 60Hz
(ii) 1024 x 768 @ 60Hz
(iii) 1280 x 1024 @ 60Hz

On a Windows target server system, select Control Panel > Display > Settings. Modify the screen resolution value as necessary.

Mouse
Use generic mouse drivers for optimum mouse control during remote sessions. Set the mouse pointer speed to a middle setting with no acceleration or snap-to effects.

On a Windows target server system, select Control Panel > Mouse > Pointer Options
Set the pointer speed to medium and disable Enhanced pointer precision

For Linux GUIs, set the mouse acceleration to exactly 1 and the threshold to exactly 1.

⚠️ If your keyboard keeps repeating keys when it is plugged into the KVM. Please follow either one below:

(a.) Enable key release timeout if you experience duplicated keystrokes during poor network performance.
- login to IP KVM remote console
- go to Interfaces KVM settings > Keyboard / Mouse
- click the Key Release Timeout
- adjust Timeout after if necessary

(b.) Reduce video bandwidth usage if you experience duplicated keystrokes during poor network
- login to IP KVM remote console
- go to Interfaces KVM Settings > User Console > Transmission Encoding,
- select Manually
- adjust Compression to [ 0-none ] and Color depth to [ 8-bit – 256 col ]
(2) REMOTE CLIENT COMPUTER SETUP

The remote client computer must have a web browser (such as Microsoft Internet Explorer, Mozilla Firefox, and Netscape Navigator) and a Java Virtual Machine (version 1.4 or higher) installed. Enable Java on the web browser.

JAVA Security Issue

Due to the changes from Java security, customer may facing the "JAVA Block" message while accessing the remote console over IP.

If it said so, here is the workaround solution:

Customer can use the "Exception Site list" feature to run the applications blocked by security setting. Adding the URL of the blocked application to the Exception Site list allows it to run with some warnings.

Steps to Add URLs to the Exception Site list:

- Go to the Java Control Panel (On Windows Click Start and then Configure Java)
- Click on the Security tab
- Click on the Edit Site List button
- Click Add in the Exception Site List window
- Click in the empty field under the Location field to enter the URL (URL should begin with http:// or https://)

Security Warning

Do you want to run this application?

Running this application may be a security risk.

Select the box below, then click Run to start the application.
< 1.5 > KVM Cascade

- Cascade up to 8 levels, 256 servers
- Cascading multiple KVM with CMC-8 cascade cable.

⚠️ Cascaded KVMs from level 2 to 8 must be the models of MC0116 / MC0132 or M018 / M0116.

⚠️ When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).

⚠️ The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.

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![Diagram of KVM Cascade]

**CMC-8**
- 8ft Matrix KVM cascade cable
<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Matrix Cat6 IP KVM</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MC1116</strong></td>
<td><strong>MC1132</strong></td>
</tr>
<tr>
<td><strong>KVM Port</strong></td>
<td></td>
</tr>
<tr>
<td>Number of ports:</td>
<td>16 or 32</td>
</tr>
<tr>
<td>Connector:</td>
<td>RJ-45</td>
</tr>
<tr>
<td>Connectivity:</td>
<td>DVI-D / VGA connector dongle up to 40 meters (132 feet) via Cat6 / Cat5 cable</td>
</tr>
<tr>
<td><strong>Local Console</strong></td>
<td></td>
</tr>
<tr>
<td>Monitor port:</td>
<td>DB15-pin VGA, up to 1600 x 1200</td>
</tr>
<tr>
<td>Keyboard &amp; mouse port:</td>
<td>2 x USB type connector for keyboard &amp; mouse</td>
</tr>
<tr>
<td><strong>Cat6 Remote Console</strong></td>
<td></td>
</tr>
<tr>
<td>Number of remote port:</td>
<td>1</td>
</tr>
<tr>
<td>Monitor port:</td>
<td>DB15-pin VGA, up to 1600 x 1200</td>
</tr>
<tr>
<td>Keyboard &amp; mouse port:</td>
<td>2 x USB type connector for keyboard &amp; mouse</td>
</tr>
<tr>
<td>Remote I/O:</td>
<td>RJ45 via Cat5 / Cat5e / Cat6 cable up to 500 feet</td>
</tr>
<tr>
<td><strong>IP Remote Console</strong></td>
<td></td>
</tr>
<tr>
<td>Number of IP console:</td>
<td>1 for MU-IP1613 / MU-IP3213</td>
</tr>
<tr>
<td>User management:</td>
<td>15-user login, 1 x active user</td>
</tr>
<tr>
<td>Browser:</td>
<td>Internet Explorer, Firefox, Safari</td>
</tr>
<tr>
<td>Security:</td>
<td>SSL v3, RSA, AES, HTTP / HTTPs, CSR</td>
</tr>
<tr>
<td>IP Access:</td>
<td>RJ45 Ethernet per IP console</td>
</tr>
<tr>
<td><strong>Expansion:</strong></td>
<td>Up to 256 servers by 8-level cascade</td>
</tr>
<tr>
<td><strong>Compatibility</strong></td>
<td></td>
</tr>
<tr>
<td>Multi-platform:</td>
<td>Mix PCs, SUN and Mac G3 / G4 Mac / iMac</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>Input:</td>
<td>AC power adapter</td>
</tr>
<tr>
<td>Consumption:</td>
<td>Max. 48 Watt, Standby 5 Watt</td>
</tr>
<tr>
<td><strong>Regulatory</strong></td>
<td></td>
</tr>
<tr>
<td>Safety:</td>
<td>cUL, FCC &amp; CE certified</td>
</tr>
<tr>
<td>Environment:</td>
<td>RoHS2 &amp; REACH compliant</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating:</td>
<td>0 to 50°C</td>
</tr>
<tr>
<td>Storage:</td>
<td>-5 to 60°C</td>
</tr>
<tr>
<td>Relative humidity:</td>
<td>90%, non-condensing</td>
</tr>
<tr>
<td>Shock:</td>
<td>50G peak acceleration (11ms, half-sine wave)</td>
</tr>
<tr>
<td>Vibration:</td>
<td>58-100Hz / 0.98G (11ms / cycle)</td>
</tr>
<tr>
<td><strong>Product Information</strong></td>
<td></td>
</tr>
<tr>
<td>Dimension (W x D x H):</td>
<td>443 x 171 x 44 mm / 17.4 x 6.7 x 1.73 inch</td>
</tr>
<tr>
<td>Net weight:</td>
<td>3 kg / 6.5 lb</td>
</tr>
<tr>
<td><strong>Packing Information</strong></td>
<td></td>
</tr>
<tr>
<td>Dimension (W x D x H):</td>
<td>500 x 400 x 90 mm / 19.7 x 15.7 x 3.5 inch</td>
</tr>
<tr>
<td>Gross weight:</td>
<td>5 kg / 11 lb</td>
</tr>
</tbody>
</table>
## Package Contents

### MC0116 / MC0132
- MC0116 or MC0132 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 1
- Power adapter w/ power cord (for receiver) x 1
- NE-6 6ft Combo KVM cable for receiver box x 1

### MC0216 / MC0232
- MC0216 or MC0232 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 2
- Power adapter w/ power cord (for receiver) x 2
- NE-6 6ft Combo KVM cable for receiver box x 2

### MC0316 / MC0332
- MC0316 or MC0332 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 3
- Power adapter w/ power cord (for receiver) x 3
- NE-6 6ft Combo KVM cable for receiver box x 3
<2.2> KVM port & Cat6 dongle connection

**Matrix Cat6 KVM**

**IF-DUSBD DVI-USB dongle**
- To connect DVI-D connector to the computer’s video card
- To connect USB connector to the computer’s USB port

**IF-DUSB VGA-USB dongle**
- To connect DB-15 connector to the computer’s video card
- To connect USB connector to the computer’s USB port

**IF-DPS2 VGA-PS/2 dongle**
- To connect DB-15 connector to the computer’s video card
- To connect PS/2 keyboard connector to the computer’s keyboard port
- To connect PS/2 mouse connector to the computer’s mouse port
< 2.3 > Local console & remote console connection

Matrix Cat6 KVM

CAT 5/6 cable max. 150m

Remote USB console 3

Remote USB console 1

Remote USB console 2

Remote Cat6 Console 3

Local USB console

Remote Cat6 Console 1

Remote Cat6 Console 2
How to use a receiver to connect a remote console

The receiver provides a hotkey function for remote console. Please refer to P.19
< 2.4 > KVM Cascade

- Cascade up to 8 levels, 256 servers
- Cascading multiple KVM with CMC-8 cascade cable.

⚠ Cascaded KVMs from level 2 to 8 must be the models of MC0116 / MC0132 or M018 / M0116.

⚠ When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).

⚠ The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.

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[Diagram showing cascaded KVMs from level 2 to 8]

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CMC-8

- 8ft Matrix KVM cascade cable
< 2.5 > Specifications

Matrix Cat6 KVM

<table>
<thead>
<tr>
<th></th>
<th>MC0116</th>
<th>MC0216</th>
<th>MC0316</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MC0132</td>
<td>MC0232</td>
<td>MC0332</td>
</tr>
</tbody>
</table>

**KVM Port**
- Number of ports: 16 or 32
- Connector: RJ-45
- Connectivity: DVI-D / VGA connector dongle up to 40 meters (132 feet) via Cat6 / Cat5 cable

**Local Console**
- Monitor port: 1 x DB15-pin VGA, up to 1600 x 1200
- Keyboard & mouse port: 2 x USB type connector for keyboard & mouse

**Cat6 Remote Console**
- Number of remote port: 1 for MU-1602 / MU-3202
  - 2 for MU-1603 / MU-3203
  - 3 for MU-1604 / MU-3204
- Monitor port: DB15-pin VGA, up to 1600 x 1200
- Keyboard & mouse port: 2 x USB type connector for keyboard & mouse
- Remote I/O: RJ45 via Cat5 / Cat5e / Cat6 cable up to 500 feet

**Expansion:**
- Up to 256 servers by 8-level cascade

**Compatibility**
- Multi-platform: Mix PCs, SUN and Mac G3 / G4 Mac / iMac
- Support: Windows 7 / Vista / 2003 / XP, Linux, Unix

**Power**
- Input: AC power adapter
- Consumption: Max. 48 Watt, Standby 5 Watt

**Regulatory**
- Safety: cUL, FCC & CE certified
- Environment: RoHS2 & REACH compliant

**Environmental**
- Operating: 0 to 50°C
- Storage: -5 to 60°C
- Relative humidity: 90%, non-condensing
- Shock: 50G peak acceleration (11ms, half-sine wave)
- Vibration: 58~100Hz / 0.98G (11ms / cycle)

**Product Information**
- Dimension (W x D x H): 443 x 171 x 44 mm / 17.4 x 6.7 x 1.73 inch
- Net weight: 3 kg / 6.5 lb

**Packing Information**
- Dimension (W x D x H): 500 x 400 x 90 mm / 19.7 x 15.7 x 3.5 inch
- Gross weight: 5 kg / 11 lb

P.17
3.1 KVM Button

Power ON
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

Front Panel - Port LED Indications

16 ports

Bank no. | PC port LEDs | Channel button | Bank button
---|---|---|---
0 | 1 2 3 4 5 6 7 8 | 9 10 11 12 13 14 15 16 |

32 ports

Bank no. | PC port LEDs | Channel button | Bank button
---|---|---|---
0 | 1 2 3 4 5 | 6 7 8 |
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 |

Bank no. | 7-Segment BANK LED indication
---|---
PC port LEDs | Online: Blue LED on indicating a PC is connecting to the port
Active: Green LED on indicating a selected channel
Remote: Orange LED on indicating the port is selecting by IP / remote console
Channel button | Press to select channel from 01 to 32
Bank button | Select the bank from 1 to 8
3.2 Password

The password is enabled by default, the default password is “00000000” eight zeros (Do not use “0” on number pad)

■ Enable password
1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
2. Logout the KVM by pressing the hotkey Scroll Lock + Scroll Lock + P
3. In SUPERVISOR level, enter “00000000” eight zeros in user name & password field (Do not use “0” on number pad)
4. In USER level, press Space bar + Enter in user name & password field
Remark: Automatic logout after 10 minutes of inactivity

■ Set your own user name & password
1. Login the KVM in SUPERVISOR level by pressing “00000000” eight zeros in user name & password field
2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
3. Press F1 to the MAIN MENU
4. Select “USER SECURITY”
5. Set password in SUPERVISOR & USER level
   a. In the left-top row “S” (SUPERVISOR), press Enter to set your own user name & password
   b. In the row 1 to 8 (USER), press Enter to set your own user name & password
6. Press Enter to save the setting or press Esc to cancel the editing without any change
Remark: a. Blank has underscore, while SPACE doesn’t have
   b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ Change your password
1. Login the KVM in SUPERVISOR level by pressing your own user name & password
2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
3. Press F1 to the MAIN MENU
4. Select “USER SECURITY”
5. Change password in SUPERVISOR & USER level
   a. In the left-top row “S” (SUPERVISOR), press Enter to change your user name & password
   b. In the row 1 to 8 (USER), press Enter to change your user name & password
6. Press Enter to save the setting or press Esc to cancel the editing without any change
Remark: a. Blank has underscore, while SPACE doesn’t have
   b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ Disable your password
1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
2. Logout the KVM by pressing the KVM hotkey Scroll Lock + Scroll Lock + P
3. You don’t need user name & password to access the KVM OSD menu

■ Forget your password
Please contact your supplier for further support

Remark:
■ You must press the KVM hotkey within 2 seconds
■ A beep sound will be heard for successful entering KVM hotkey
### 3.3 KVM OSD

**OSD Menu**

<table>
<thead>
<tr>
<th>BANK</th>
<th>PORT NAME</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>F5</th>
<th>F6</th>
<th>F7</th>
<th>F8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SYSTEM 01</td>
<td>MENU</td>
<td>LOGOUT</td>
<td>PREV</td>
<td>ENTER</td>
<td>SELECT</td>
<td>PgUp</td>
<td>PgDn</td>
<td>BANK</td>
</tr>
<tr>
<td>2</td>
<td>SYSTEM 02</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>SYSTEM 03</td>
<td></td>
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<tr>
<td>4</td>
<td>SYSTEM 04</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>SYSTEM 05</td>
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<tr>
<td>6</td>
<td>SYSTEM 06</td>
<td></td>
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<tr>
<td>7</td>
<td>SYSTEM 07</td>
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<td></td>
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<tr>
<td>8</td>
<td>SYSTEM 08</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**OSD operation**

- **next to the system name** The PC is powered on
- **next to the system name** The PC is selected
- **F1** Access F1 MAIN MENU
- **F2** Logout the OSD menu
- **F3** Previous menu
- **Esc** Cancel / Quit
- **Enter** Complete / Switch to selected port
- **↑/↓** Switch to previous or next port
- **PgUp/PgDn** Switch to previous bank or next bank
- **1/2/3/4** Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32

**Remark:** Display port 17 ~ 32 for 32 port model only

### F1 Main Menu

**SELECT OPTION :**

- **01 LANGUAGE** OSD language change
- **02 PORT NAME EDIT** Define port name
- **03 PORT SEARCH** Quick searching by port name
- **04 USER SECURITY** Change password
- **05 ACCESS LIST** Define user access authority
- **06 HOTKEY** Change hotkey
- **07 TIME SETTINGS** Modify scan display time interval
- **08 OSD MOUSE** Modify OSD mouse speed
### Local Console Hotkey

<table>
<thead>
<tr>
<th>Hotkey</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll Lock + Scroll Lock + Space Bar</td>
<td>Calling OSD menu</td>
</tr>
<tr>
<td>Right-button mouse + Esc</td>
<td>Calling OSD menu</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + ↑</td>
<td>Switch to previous port</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + ↓</td>
<td>Switch to next port</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + PgUp / PgDn</td>
<td>Switch to previous bank or next bank</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + Bank no. + Port no.</td>
<td>Switch to specific port</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + B</td>
<td>Turn the buzzer ON and OFF * Default the buzzer is ON</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + P</td>
<td>Logout the KVM if password security is ON. Show up the status windows</td>
</tr>
</tbody>
</table>

### Advance hotkeys (for Supervisor login only)

<table>
<thead>
<tr>
<th>Hotkey</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll Lock + Scroll Lock + S</td>
<td>Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + R</td>
<td>Reset all the KVM settings to factory default *Except User Security settings</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + U</td>
<td>Disable and enable password security *Default security is ON</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + L</td>
<td>To enable / disable the screen saving function and 10 minutes auto-logout *Default the screen saving is OFF</td>
</tr>
</tbody>
</table>

### Remarks:
- Example of “Scroll Lock + Scroll Lock + Bank no. + Port no.”
  - Bank No.: 1 to 8
  - Port No.: 01 to 16
  - e.g. Bank 1 Port 4: Scroll Lock + Scroll Lock + 1 + 0 + 4
  - e.g. Bank 2 Port 16: Scroll Lock + Scroll Lock + 2 + 1 + 6
- You must press the hotkey within 2 seconds
- A beep sound will be heard for successful entering
- The numeric keypad is not supported, while in OSD screen, the arrow keys, PgUp, PgDn, and Enter keys are supports

### Remote Console Hotkey

<table>
<thead>
<tr>
<th>Hotkey</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll Lock + Scroll Lock + C</td>
<td>Toggle switch between remote &amp; local port</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + Q</td>
<td>Turn the buzzer ON &amp; OFF *Default the buzzer is ON</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + S</td>
<td>Activate auto-scan mode for remote &amp; local port *The scan time interval is 5 seconds</td>
</tr>
<tr>
<td>Scroll Lock + Scroll Lock + A</td>
<td>Auto-adjust the video signal</td>
</tr>
</tbody>
</table>