# CyberView™

MU-IP1613 / 3213
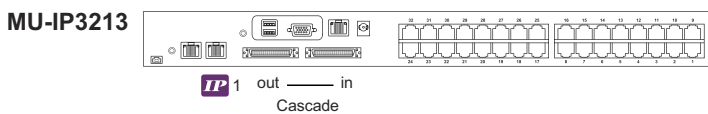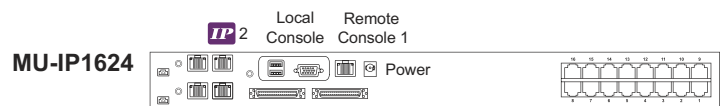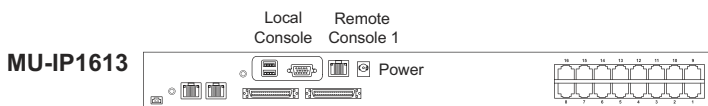## MU-IP1624 / 3224

Matrix Multi-User Cat6 IP KVM Benefits

▶ **Secure IP remote user access across the world wide web**

▶ **Efficient system management with simultaneous multi-user access**

▶ **Capable of connecting 32 or 16 servers per device in 1U**

▶ **Support DVI-USB, VGA-USB & VGA-PS/2 server interface**

▶ **Up to 40 meters between your server & KVM switch**

▶ **Enhanced Cat6 cable management with remote access up to 150m**
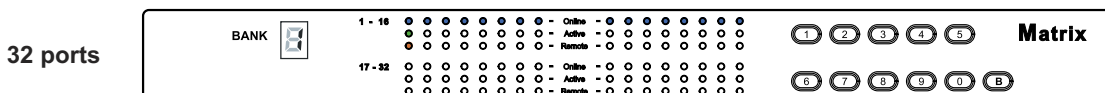
Switch Features & Options

• Provide a diversity of consoles to access servers independently and simultaneously

• Use of the RJ45 Cat6 interface allows for a higher number of ports in smaller density

• Greater distances between your switch and servers allow enhanced data centre rack layouts

• Multi lingual on screen display menu

• Advanced user profiles and configurable OSD hot key combinations

MU-IP1613

MU-IP3213
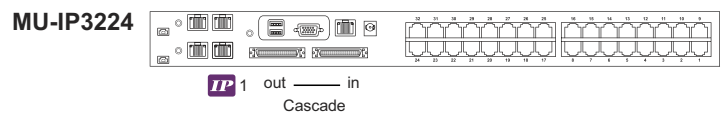
MU-IP1624

MU-IP3224

Ordering Information

Console	Local	Remote	**IP**	16-port	32-port
👤👤 **IP**	1	1	1	MU-IP1613	MU-IP3213
👤👤 **IP** **IP**	1	1	2	MU-IP1624	MU-IP3224

Front Panel - Port LED Indications

16 ports

Bank no.   PC port LEDs   Channel button   Bank button

32 ports

www.austin-hughes.com
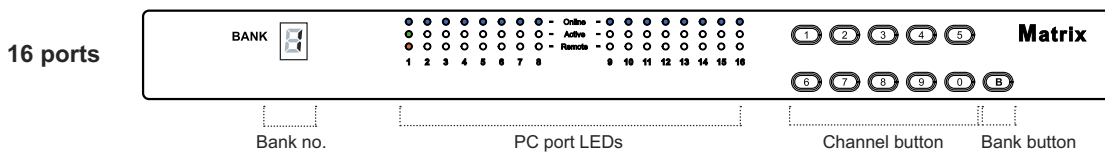
KVM port & Cat6 dongle connection

USB Servers

DG-100SD DVI-USB dongle

USB

CAT 5 / 6 cable
max. 40 meters

DVI-D

Cat6 KVM port

32 31 30 29 28 27 26 25   16 15 14 13 12 11 10 9

24 23 22 21 20 19 18 17   8 7 6 5 4 3 2 1

PS/2 Servers

PS/2

**DG-100
VGA-PS/2 dongle**

VGA

CAT 5 / 6 cable
max. 40 meters

USB Servers

**DG-100S
VGA-USB dongle**

USB

VGA
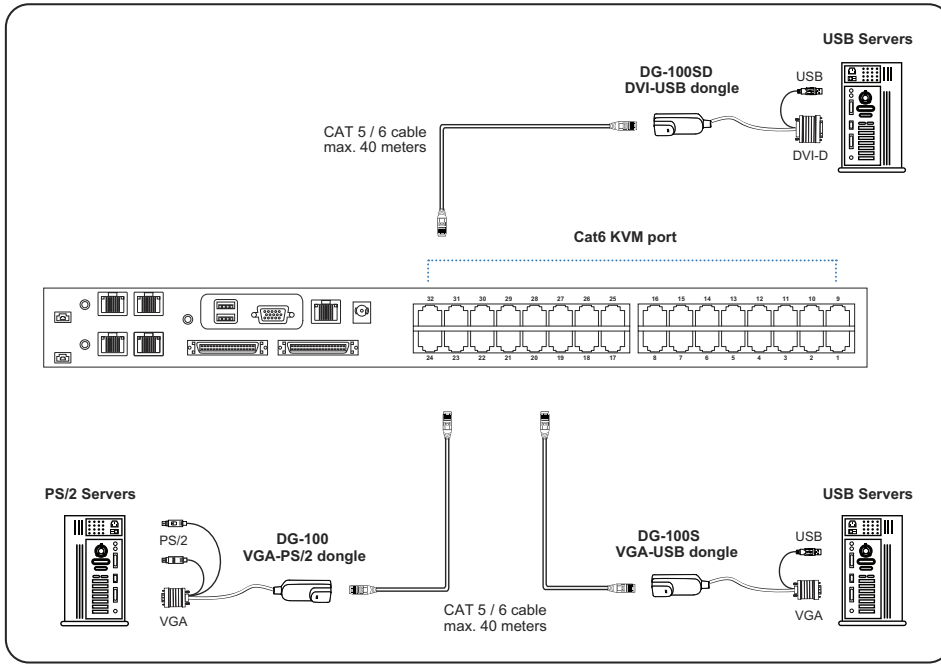
DG-100SD DVI-USB dongle
■ To connect DVI-D connector to the computer's video card
■ To connect USB connector to the computer's USB port

DG-100S VGA-USB dongle
■ To connect DB-15 connector to the computer's video card
■ To connect USB connector to the computer's USB port

DG-100 VGA-PS/2 dongle
■ To connect DB-15 connector to the computer's video card
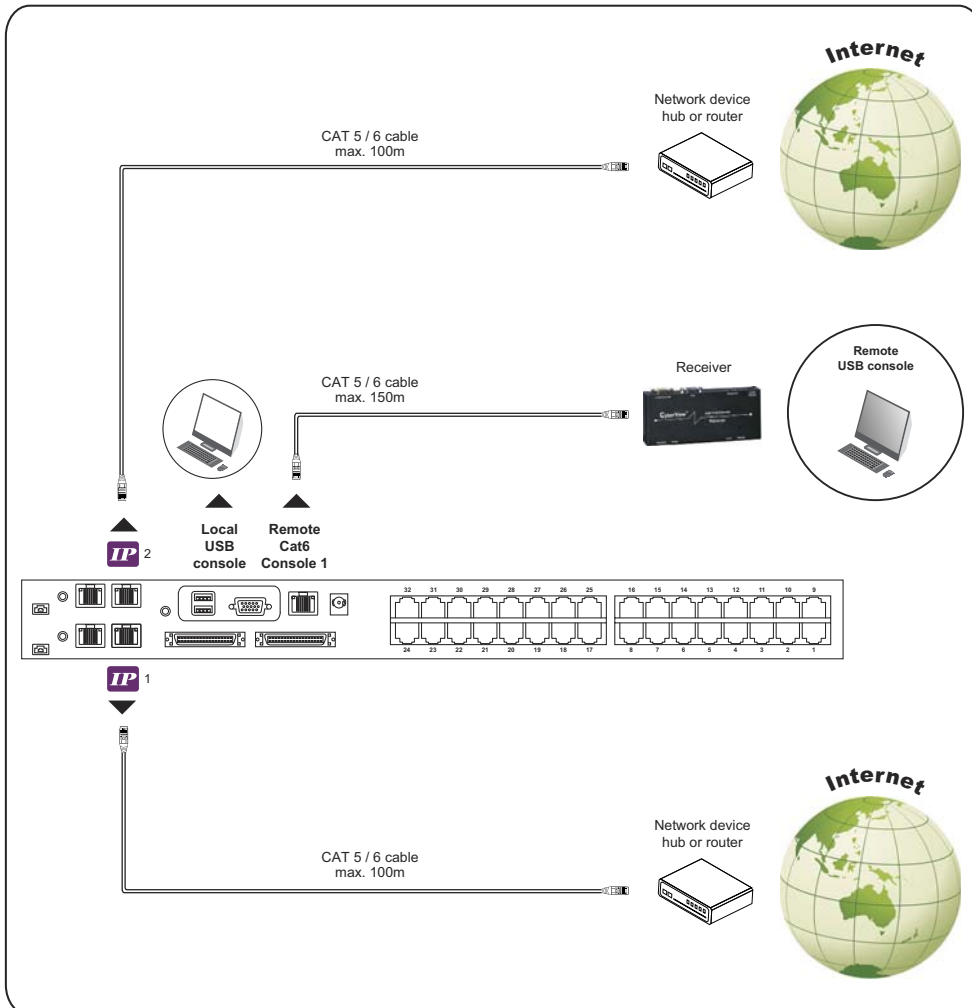■ To connect PS/2 keyboard connector to the computer's keyboard port
■ To connect PS/2 mouse connector to the computer's mouse port

IP, Remote & Local console connection

Internet

**Network device
hub or router**

CAT 5 / 6 cable
max. 100m

CAT 5 / 6 cable
max. 150m

Receiver

**Remote
USB console**

**Local
USB
console**

**Remote
Cat6
Console 1**

IP 2

32 31 30 29 28 27 26 25   16 15 14 13 12 11 10 9

24 23 22 21 20 19 18 17   8 7 6 5 4 3 2 1

IP 1

Internet

**Network device
hub or router**

CAT 5 / 6 cable
max. 100m

PS-CV-MUIPKVM-Q411V1   www.austin-hughes.com

KVM Cascade

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

Master KVM

out ——— in
Cascade

To cascade IN port

Slave KVM level 2   MU-1602

Slave KVM level 3   MU-1602

Up to Level 8

⚠️ Cascaded KVMs from level 2 to 8 must be the models of MU-1602 / MU-3202 or M-802 / M-1602.

⚠️ 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.

CMC-8
- 8ft Matrix KVM cascade cable

⚠️ **For detailed product specifications and options, please download the user manual from the link below :**
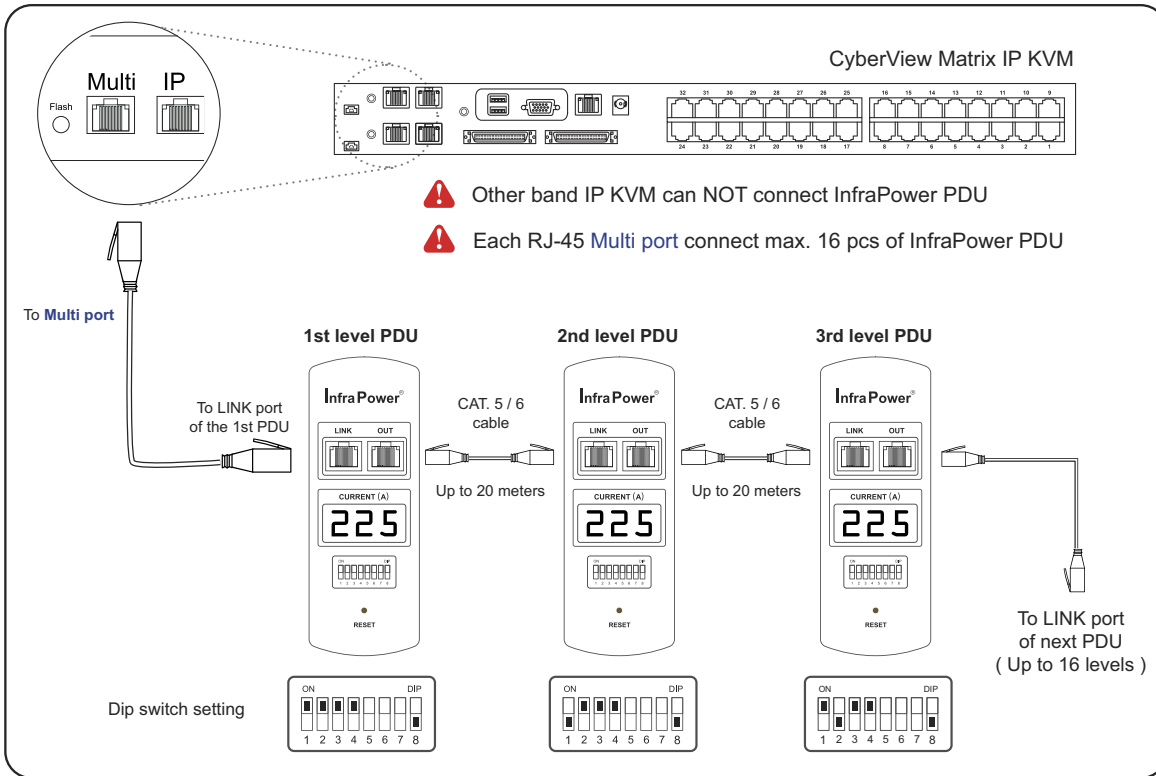www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MUKVM.pdf

KVM Specification

■ 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:	HDDB15-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
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

■ IP Remote Console

Number of IP console:	1 for MU-IP1613 / MU-IP3213 2 for MU-IP1624 / MU-IP3224
User management:	15-user login, 1 x active user
Browser:	Internet Explorer, Firefox, Safari
Security:	SSL v3, RSA, AES, HTTP / HTTPs, CSR
IP Access:	RJ45 Ethernet per IP console

■ Expansion:

	Up to 256 servers by 8-level cascade

■ Compatibility

Multi-platform:	Mix PCs, SUNs, IBMs, HPs, DELLs Server
Support:	Windows Vista / 2003 / XP / 2000, Linux, Netware, Unix

■ Power

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

■ Regulatory Approval: FCC, CE

■ 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 180 x 43.6 mm / 17.4 x 7.1 x 1.72 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

IP Multi-port connection to remote PDU

CyberView IP KVM provides RJ-45 Multi port for the user to remotely control and manage servers & PDU together.

⚠ Other band IP KVM can NOT connect InfraPower PDU

⚠ Each RJ-45 Multi port connect max. 16 pcs of InfraPower PDU

For details, please visit the link below :
www.austin-hughes.com/support/usermanual/infrapower/UM-IPS-01.pdf

Using the ‖ **dip switch no. 1, 2, 3, 4 & 8** ‖

to setup each PDU level acording to the table :

Cascaded PDUs	Dip switch no.				
	1	2	3	4	8
1st PDU	On	On	On	On	Off
2nd PDU	Off	On	On	On	Off
3rd PDU	On	Off	On	On	Off
4th PDU	Off	Off	On	On	Off
5th PDU	On	On	Off	On	Off
6th PDU	Off	On	Off	On	Off
7th PDU	On	Off	Off	On	Off
8th PDU	Off	Off	Off	On	Off
9th PDU	On	On	On	Off	Off
10th PDU	Off	On	On	Off	Off
11th PDU	On	Off	On	Off	Off
12th PDU	Off	Off	On	Off	Off
13th PDU	On	On	Off	Off	Off
14th PDU	Off	On	Off	Off	Off
15th PDU	On	Off	Off	Off	Off
16th PDU	Off	Off	Off	Off	Off

IP Multi-port connection to remote PDU

To access the PDU GUI, please enter the IP KVM main page and select
Remote Power > **Start Service** > **Apply**

- ① PDU cascade port
- ② Current display
- ③ Dip switch
- ④ Reset button
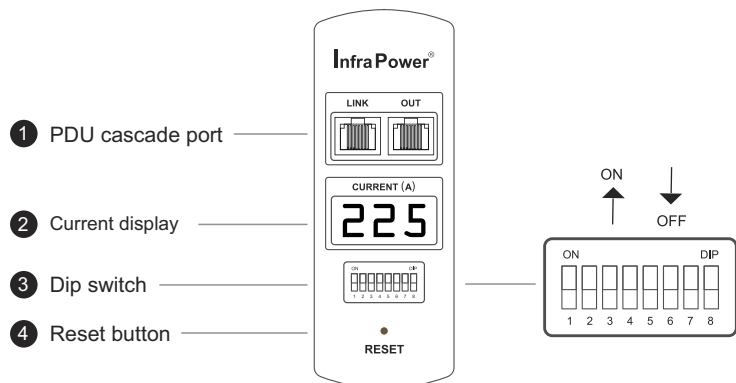
■ For rackmount PDU, ② ③ ④ on the front panel left , ① on the rear panel

⚠ **For more information about InfraPower PDU, please visit our web site below:**
www.austin-hughes.com