KVM Management Control Unit

(IPK600)

User Manual

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User Information

User Notification

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If the equipment is damaged artificially after purchase, the buyer (not the manufacturer, its distributor or reseller) shall bear all costs for necessary repair and any losses caused by equipment defects.

If the correct operating voltage setting is not selected before operation, the manufacturer will not be responsible for any damage caused by system operation. **Please make sure the voltage has been set correctly before use**.

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1. Overview

Product Description

The matrix manager unit is an easy-to-use hardware to configure, manage, and monitor all transmitter and receiver units. With an intuitive interface, you can configure user access rights and get a real-time overview of system connections and users through the manager unit. It's easy to set up the manager unit, no software is needed, just connect it with a keyboard, mouse, and monitor will be OK. The matrix switching system composed of extenders supports up to 9999 nodes by using the IPK600 centralized management control unit.

Product Features

- Dual power supply redundancy
- Dual network port redundancy, adaptive 10/100/1000 Mbps network
- Support VGA, HDMI output
- Supports long-distance one-to-one, one-to-many, many-to-one, and many-to-many TX / TX connections
- Intuitive interface Device settings, Work Group, and Quick Connection
- Administrator user can manage up to 9999 nodes
- Quickly switching between different receivers
- Configurable user access rights to get a real-time overview of system connections and users
- Support TX and RX configuration (EDID, speed, flash, firmware upgrade, etc.)

Dimensions



2. Installation



1) Make sure the IP KVM management unit (Figure (1)) is grounded.

2) Connect the monitor, USB mouse, and USB keyboard to the KVM management unit (Figure (2)).

3) Connect the network switch to the KVM management unit with a network cable (Figure (3)).

4) Connect the power cord (Figure 4) to the power socket of the KVM management unit.

5) Turn on the power switch (Figure (5)), and the KVM management unit can be used normally after power on.

The following interface appears after logging in to the KVM management unit.

Welcome to Ma	atrix Managemer	nt System					×
=== *							
Dev	RX Num:0						
-	SN	Name	Version	Configuration	State	MID *	
4	1		311234A 1086253				
System	2						
	3						
	4						
	5						
	6						
	7						
	8					•	
	TX Num: 0)					
	SN	Name	Version	Configuration	State	MID +	
	1		2012/10/20184				
	2						
	3						
	4						
	5						
	6						
	7						
	8					•	
	All RX	Blink: 📙 Al	ITX Blink:				

You can see all the RX and TX device information after a while.

3. UI Settings 3.1 Function Settings 【DEV】 – 【Dev Settings】

		RX N	um:3				
ev	Work Group	SN	Name	Version	Configuration	State	MID
\$	0.110	1	10-826495396491	V15A917.170004-R	Configuration	kile	82-66-95-39-bf-91
tem	Quick Connection	2	RX-824970a75774	V1EA917.170C04-R	Configuration	Idle	82-49-70-97-57-74
		3	IOI-82bcf4d41966	V1EA917.170C04-R	Configuration	Idle	82-bc-14-d4-19-66
		4					
		5					
		6					
		7					
		8					
		SN	Nane	Version	Configuration	State	MID
		SN	Nane	Version	Configuration	State	MID
		1	TX-02db0b1a6633	V1EA917.170C04-T	Configuration	connect	2-db-b-1a-66-33
			1x-023463616666	V11 ×117.170(304-)	Configuration	connect	2-34-03-00-00-00
		3	TX-02da799ae375	VIEA917.170C04-T	Configuration	connect	2-da-79-9a-e3-75
		1	TX-02bf64c94952	V1EA917.170C04-T	Configuration	connect	2-bf-64-c9-49-52
		5					
		6					
		7					

Function	Description			
RX Num / TX Num	The tota	l number of connected TX and RX		
SN	SN numb	per of RX / TX list		
Name	RX / TX r	name		
Version	RX / TX v	version		
Configuration	Configuration of the connected TX and RX devices			
		Idle: TX not connected		
State	RX	Selected: The relevant RX is selected		
		TX-xxxxxx: TX name that is paired successfully		
		Busy: Paired		
	ТΧ	No video: No video signal from host		
		Connect: Waiting to connect		
	RX conn	ection status (To check the connection status of		
	all RX via	PWR blinking.)		
	TX conne	ection status (To check the connection status of		
	all TX via	PWR blinking.)		

RX Settings

Click Configuration of relevant RX to do RX settings.

System						? X
RX Settings						
RX-826d	9539bf91		pass	word mode:	•	
Restare:	ок		Selec	ct Workgroup	No Selected	-
upgrade:	OPEN		Netw	vork mode	Multicast	-
Restore factory:	ОК		syste	em mode:	Node	•
Unblind secor:	ОК		MID:		82:6d:95:39:bf	:91
Blink:	close	•	NID:		169-254-39-57	7
Output timing:	1080p@60	•	BID:		826d9539bf91	1-0
Secondary sreen:	3840x2160	•				

Function	Description
RX-826d9539fdbf91	Click "RX-826d9539fdbf91" to modify the RX name and press "ESC" to confirm.
Restart	Restart the RX
upgrade	Upgrade the RX
Restore factory	Restore factory defaults
Unblind secor	Bind the secondary screen
Blink	To set the PWR blinking status and time – Close, 1 minute, 10 minutes, 30 minutes, 60 minutes, Constant flashing
Output timing	AUTO PASS, 1080P, 2160P, 640x480P, 800x600P, 1024x768P, 1280x1024P, 1440x900,1920x1200
Secondary screen	Secondary screen settings (secondary screen must be bound first)
Password mode	Enable / Disable password mode
Select Workgroup	To associate the RX to a related workgroup, you must first create a workgroup.
Network mode	Multicast Unicast
System mode	Matrix: P2P Node

TX Settings

Click 【Configuration】 of relevant TX to do TX settings.

System			?X
TX Settings			
TX-02db0b	1a6633	MID: 2-db-	b-1a-66-33
Restare:	ОК	NID: 169-2	254-39-57
upgrade:	OPEN	ID: 4116	5
Restore factory:	ОК	BID:	
Unblind secor:	ОК	Output timing: 3840	x2160@30
Bit Rate:	Auto	Blink: clos	e 🔻
Network mode	Multicast 🗸	Scan time: 30s	-
EDID:	3840x2160 💌		
Secondary sreen:	3840x2160 💌		

Function	Description
TX-0234b3616d6b	Click "TX-0234b3616d6b" to modify the TX name and press "ESC" to confirm.
Restart	Restart the TX
Upgrade	Upgrade the RX
Restore factory	Restore factory defaults
Unblind secor	Bind the secondary screen
Bit Rate	Auto, 10M, 50M, 100M, 150M, 200M
Network mode	Multicast Unicast
EDID	1024 x 768, 1280 x 1024, 1366 x 768,1600 x 900, 1920x1080, 1920 x 1200, 2560 x 1440, 3840 x 2160, 1152 x 864, 2048 x 2048
Secondary screen	Secondary screen settings (secondary screen must be bound first)
MID	MAC ID
NID	Network ID
ID	Device ID
BID	Binding ID
Blink	To set the PWR blinking status and time – Close, 1 minute, 10 minutes, 30 minutes, 60 minutes, Constant flashing
Scan time	10s, 20s, 30s, 60s, 90s,120s, 150s, 180s, 210s, 255s

[DEV] - [workgroup]

Welcomete	Welcome to Matrix Management System						
	Dev Settings	workgroup					
Dev	Work Group		Name	ID	Settings		
System	Quick Connection	Add	Del		Settings		

[Add Workgroup]

Click 【Add】 to add a workgroup, and then click the RX and TX name to add them to the list.

Welcome	o Matrix Manageme	ent System		×
Dev System	Dev Settings Work Group Quick Connection	Add workgroup workgroup Names RX Name RX Name RX Receives State RX-824970875774 RX-824970875774 RX-824570875774	(1) RX RX.426495398/93 RX.4226474413966 (3)	С ОК ТХ 72 ТХ 02db0b1s6533 ТК 02db01s6533 ТК 02db01s6533 ТК 02db01s6533 ТК 02db01s6533 ТК 02db01s6533
		TX Name TX:0340b166533 TX:0340b166533 TX:0340b166533 TX:032407898x75 TX:02bf64e94952		

【DEV】 - 【Quick Connection】

Click 【DEV】 - 【Quick Connection】, the following screen appears:

	Dev Settings	Quick Connection	
Jev	Work Group	Permission: 🗹 Usb 🔽 KM 🔽 Audio	Quick Connection
Ç	Quick Connection	RX Name RX	ТХ
stem		RX-826d9539b/91.	
		RX-824970a75774	
		TX Name	
		TX-02db0b1a6633	
		TX-0234b3616d6b	
		TX-02da799ae375	
		TX-02bf64e94952	

Select the TX and RX you want to pair, click the RX and TX name to add them to the list, and press **[Quick Connection]** after adding.

Welcome	to Matrix Managem	ent System	×
Dev System	Dev Settings Work Group Quick Connection	Quick Connection Permission: Usb KM Audio RX Name RX RX RX 422690339/91 1 RX RX 4224970275774 RX 4224970275774 RX RX 4224576441366 RX RX	Guick Connection TX TX TX TX C02dbbb.to6633
		TX Name TX-02240b365533 3 TX-0234b3616d6b 3 TX-0224b759bad375 3 TX-0226b54e94952 3	

After the settings are completed, TX and RX are paired successfully as shown below.

Dev Settings	DV Nu					
Work Group	SN SN	Name	Version	Configuration	State	MID
	1	RX-876d9539bf91	V1EA917.170C04-R	Configuration	TX-02db0b1a6633	82-6d-95-39-bi-91
Quick Connection	2	8X-824970a75774	V1EA917.170C04-R	Configuration	We	32-49-78-47-57-78
	3	RX-82bcf4d41966	V1EA917.170C04-R	Configuration	Idie	82-bc-f4-d4-19-66
	4					
	5					
	6					
	7			1		
	8 TX Nu	m: 4				
	8 TX Nu SN	m:4 Nane	Version	Configuration	State	MID
	8 TX Nu SN 1	m: 4 Nane TX-02:6001:a6633	Version V1EA917.170C04- T	Configuration Configuration	State Busy	MID 2-db-b-1a-66-33
	8 TX Nu SN 1 2	m: 4 Name TX-024b0b1a6633 TX-0234b3616d6b	Version VIEA017.170C04-T V1FA017.170C04-T	Configuration Configuration Configuration	State Busy EDROET	MID 2-db-b-1a-66-33 2-34-b3-53-54-54
	8 TX Nu SN 1 2 3	m: 4 Name TX-024b0b1a6633 TX-0234b3616d6b TX-024a799ae375	Version V1EA917.170C04-T V1FA917.170C04-T V1EA917.170C04-T	Configuration Configuration Configuration Configuration	State Bury connect connect	MID 2-db-b-1a-66-33 2-24-b2-82-80-80-80 2-da-79-9a-63-75
	8 TX Nu SN 1 2 3 4	m: 4 Name TX-024b0b1a6533 TX-0234b3616d6b TX-024b3616d6b TX-0220f64694952	Version V12A917.170004-T V15A917.170004-T V12A917.170004-T V22A927.170004-7	Configuration Configuration Configuration Configuration Configuration	State Buny connect connect	MID 2-db-b-1a-66-33 2-3-6-50-50-50-50-50 2-da-79-3a-63-75 2-db-6-db-40-52
	8 TX Nu SN 1 2 3 4 5	m: 4 Name TK-024b0b146633 TX-0234b361b46b TK-024b363b64b TX-02b164694952	Version V164937.170004-T V164917.170004-T V164917.170004-T V164917.170004-T V164917.170004-T	Configuration Configuration Configuration Configuration Configuration	State Bury connect connect	MID 2-db-b-1a-66-33 2-36-50-50-50-50-50-50-50-50-50-50-50-50-50-
	8 TX Nu SN 1 2 3 4 5 6	m: 4 Name TX-024006146633 TX-0234636186666 TX-02246369364694952	Version VER817.170004-T VIR8017.170004-T VER817.178004-T VER817.178004-T	Configuration Configuration Configuration Configuration Configuration	State Rusy connect connect	MID 2-db-b-14-66-33 2-3-6-40-80-80-86-86 2-da-79-30-63-75 2-07-64-69-49-32
	8 TX Nu SN 1 2 3 4 5 6 7	m: 4 Name TX-02460b1a6633 TX-023453636666 TX-02345986375 TX-020164694952	Version V16437.170004-T V154317.170004-T V164317.178004-T V164317.178004-T	Configuration Configuration Configuration Configuration Configuration	State Buoy connect connect connect	NID 2-db-b-2-66-33 2-35-83-89-89-8-759 2-db-79-96-63-75 2-37-84-69-49-32

[System] - [User Settings]

	Usor Sottings				
	User settings	User group list			
Jev	System Settings	User group name	ID	Settings	
Ċ	API	ADMIN SERVA DAME I	0	Settings	
stem					
		Add Del			

add

Welcome to	o Matrix Managem	ient System	×
Dev System	User Settings System Settings API	Add User group User group name:	I
		User List: Name	
_		Add user Delete user confirm	

【add User】

System	? X
Add User	
User Name:	
password:	
confirm password:	
Select workgroup:	
No Selected	•
confirm	

[System] - [system Settings]

Welcomet	o Matrix Managem	nent System	×
Welcome to	o Matrix Managem User Settings System Settings API	nent System System Settings Enable password:	

【System】-【API】

Welcome to	o Matrix Managem	ent System	X
Dev	User Settings System Settings	Pisee enter your command	
O System	ΑΡΙ	ok	

[Enable Password]

If you select [Enable Password], a user name and password window will appear after reboot.



User Name:	admin
Password:	admin

4. Specifications

Function		IPK600	
	Monitor	1x HDMI Type A 1xHDB-15 Female(blue)	
	Keyboard/Mouse	2x USB Type A (White)	
Connectors	Power	2x 3-Prong AC jack	
	RS232	1x DB9	
	LAN	2x RJ45	
Video Resolutio	'n	1920×1080@60Hz	
Power Input		100V-240Vac, 50-60Hz, <1.5A	
Power Consumption		14W	
	Operating Temp.	0-50 ℃	
Environment	Storage Temp.	-20-60℃	
	Humidity	0-80%RH, Non-condensing	
	Housing	Metal	
Physical Properties	Weight	2.3kg	
·	Dimensions (L x W x H)	440 mm x 166 mm x 44mm	