

User's Manual

Drawer 8/16-Port Combo-Free IP KVM Console with 17" LCD Display

IKVM-17080/17160





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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

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

FCC Caution

To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.



Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste; they should be collected separately.

Revision

User's Manual for Drawer 8/16 Port Combo-Free IP KVM Console with 17" LCD Display Model: IKVM-17080/17160 Rev: 3.0 (August, 2013) Part No. EM-IKVM-17080/17160_v3.0



Safety Instructions

- 1. Please disconnect this equipment from AC outlet before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or clothe for cleaning.
- 2. For pluggable equipment, the socked-outlet shall be installed near the equipment and shall be easily accessible.
- 3. Please keep this equipment from humidity.
- 4. Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
- 5. Do not leave this equipment in an environment unconditioned, storage temperature above 60 °C, it may damage the equipment.
- The opening on the enclosure is for air convection hence the equipment from overheating. DO NOT COVER THE OPENING.
- 7. Make sure the voltage of the power source connect the equipment to the power outlet.
- 8. Please keep the power cord such a way that people can not step on it. Do not place anything over power cord. The power cord must rate for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and the current rating marked on the product.
- 9. All cautions and warning on the equipment should be noted.
- 10. If the equipment is not in use for long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.
- 11. Never pour any liquid into ventilation openings; this could cause fire or electrical shock.
- 12. Never open the equipment. For safety reason, qualified service personnel should only open the equipment.
- 13. If one of the following situations arises, get the equipment checked by service personnel.
 - The Power Cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment has not worked well or you can not get it work according to User's Manual.
 - The equipment has dropped and damaged.
 - If the equipment has obvious signs or breakage



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1. General Information

Easy Switching, Efficient Management

PLANET IKVM-17080 is an **8-Port Drawer IP KVM** with **Single-Rail Console** design offering industrial level input solution. It optimizes your space utilization by controlling your systems in just **1U space on the rack**. The rail design helps users to install the **8-Port Combo-Free KVM** with ease. It is not necessary to prop the heavy console during installation but just lock the rails of the device into the rack and then the KVM console can be slid into the rails easily.

Fully-Featured LCD KVM over Internet

Via the IKVM-17080 built-in **Ethernet port**, the administrator can efficiently access to the KVM console and operate it at remote site. The IKVM-17080 captures, digitizes and compresses video signal; then transmits it with keyboard and mouse signals through IP network. Multiple remote sites can monitor the same PC server simultaneously. With **HTTPS / SSL** authentication and data encryption, the IKVM-17080 provides a non-intrusive solution for remote access and control via its embedded processors but not on mission-critical servers, so that there would be no interference with server operation or influence on the network performance.

Modular KVM switches

The Combo-Free KVM Switch modules are loaded with rich features such as one local console port, Star-Cascade capability, On Screen Display (OSD) Menu, Password Security, Searching PC Server Name, Hot key Control, Push Button and Auto-Scan Control, and Complete Keyboard and Mouse Emulation for simultaneously PC Boot-up processes.

1.1 Package List

The complete package consists of:

- One 1.8 m KVM cable. (HDB-15 / VGA + PS/2 x 2)
- One 1.8m power cord
- One user's manual CD
- One quick installation guide
- Two Rack mount bracket kit
- One Rack Mount Screw pack

Check to make sure that the unit was not damaged in shipping. If you encounter a problem, contact your dealer.

Please read this manual thoroughly, and follow the installation and operation procedures carefully to prevent any damage to the product, and / or any of the devices that connect to it.



1.2 Product Feature

- > Interface
- 17-inch 2CCFL LCD Panel
- Maximum Resolution up to 1280 x 1024 (SXGA)
- Backlight Lifetime is 50,000 hours
- 104-key keyboard with touch pad
- Touch pad is1000 points / inch (40 points / mm) graphics tablet mode
- One 10 / 100Mbps NICs for redundant LAN

KVM Connectors

- One USB-PS/2 console controls 8 computers (For IKVM-1708)
- One USB-PS/2 console controls 16 computers (For IKVM-1716)
- Cascade controls up to 64 computers from single console (For IKVM-1708)
- Cascade controls up to 128 computers from single console (For IKVM-1716)
- 8 / 16 three-in-one KVM Cables, easy to install and supports USB interfaceSupports Combo KVM module to connect servers / KVM via USB & PS/2 connection
- Fully supports Logitech / Microsoft / IBM PS/2 mouse / trackball and compatible PS/2 mouse / trackball
- Supports hot plug; not necessary to turn off the original system regardless of a newly installed PC or KVM

Management

- Remote mass storage control
- No software required, easy PC selection via On Screen Display (OSD) Menu, Push Buttons and Hot Keys
- Supports SSL protocol for any encrypted network traffic between itself and a connected client
- Supports 256-bit SSL encryption to protect password and PC server name search
- Multiplatform support Windows 2000 / XP / 2003/ Vista / Win7, Linux, Mac OS9/OSX and Sun Microsystems.

> Hardware

- 19" rack mount 1U size design, easy to install
- High Video Quality : resolution up to 1280 x 1024 (local side) or 1600 x 1200 (remote side)
- Heavy-Duty Electroplate Steel



1.3 Product Specification

Model	IKVM-17080		IKVM-17160	
Hardware Interface				
PC Port	8		16	
PC Port Connector (All Female Type)	C Port Connector All Female Type) Keyboard Mouse 3 Monitor		3-in1 HDDB 15 pin Female	
Console Connection	Keyboard Mouse Monitor Mouse USB (Female) Keyboard USB (Female)	Mini DIN 6 pin Female Mini DIN 6 pin Female HDDB 15 pin Female ale) USB (TYPE A) Emale		
Keyboard Mouse Touch pad Mouse resolution	104 key keyboard with touch pad 1000 points/ inch (40 points/mm)-graphics tablet mode 300 DPI			
Control Feature				
Max. PC Connections	64 (by cascade 8 KVM-810)		128 (by cascade 16 KVM-810)	
Port Selection Keys	ort Selection Keys 8		16	
PC Selection	On Screen Display Menu / Hot Key / Button			
KVM Video Resolution	Local console: 1280 x 1024 @ 75Hz Remote console: 1600 x 1200 @ 60Hz			
Hardware Specificatio	n & Environment			
Display Size	Display Size 17 inches			
Panel Type	2CCFL LCD Panel			
LCD Resolution Capabilities	Maximum Resolution up to 1280 x 1024 (SXGA)			
Pixel Pitch	0.264 (H) x 0.264 (V) 0.294 (H) x 0.294 (V)			
Backlight lifetime	50,000 hrs			



Operating System	Windows 2000 / XP / 2003 / Vista / 7 Server, Linux, Mac OS9 / OSX and Sun Microsystems
Chassis Construction	Heavy duty steel materials
Rail slide Dimension	51 cm (extended length 30cm)
Dimension (W x D x H)	440 x 450 x 44 mm
Weight	10.5 Kg
Environmental Specification	Operating Temperature: 5 ~ 40 degrees C (41 ~ 104 degrees F) Storage: -20 ~ 60 degrees C (-4 ~ 140 degrees F)
Humidity	0 ~ 80% (non-condensing)
Power Requirement	Universal 100~240V AC input
Certification	FCC, CE



2. Installation

2.1 Before Installation

- 1. Please check all peripherals according the list before installation. To make sure of the whole unit was not damaged and lost during shipping process. If you encountered any problem, please contact your dealer.
- 2. Before installation, make sure all peripherals and computer have been turned off.
- The standard brackets are for 500 ~ 800 mm (distance means front bracket to rear bracket) cabinet, contact your dealer if you need longer rear brackets.
- 4. If your cabinet depth is above 800 to 1000 mm, please contact your dealer for the stretch rails and replace it for your demand.
- 5. Reliable accessories of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit.
- The KVM and console are a little bit heavy, please prevent these devices from falling down during the installation. That may make some people hurt and the console damage.



2.2 Hardware Kits Contents

1. Adjust rail with pull or push to fit your cabinet



2. Install front and rear bracket on cabinet.



- 3. Repeat step 1~2 for the other side.
- 4. Pull the console until rails automatically are locked. When users hardly push the console and it can be unlocked by the power is over 4kg.





5. Pull and turn the lock knobs (left and right at the same time) then users can open console to operate.



 Put the KVM module into the console form the back. There are two ways to install the KVM module in suitable position, users can fix KVM module with the KVM accessories (Both sides) or the extra Rack- mounted Screws (Bothsides).





KVM accessories (L& R) X2



Extra rack- mounted Screws X8

7. Finish installation as below.





2.3 LCD Components



No.	Component	Function Description
1	Handle Holder	Pull to Slide the LCD console in or out
2	LCD Display	Panel Display
3	LCD Panel OSD Buttons	Controls Display Required Quality
4	LED Indicators	Switching Operation for KVM Module (Optional)
5	Slide Rail	Single Slide Rail
6	USB Ports x 2 (K/B, Mouse)	Plug-in external K/B and Mouse.
7	Power LED	Indicates Power Status
8	Power Switch	Turn on / Turn off
9	Touch Pad	Mouse Operation
10	Keyboard Module	Keyboard Operation
11	LCD Lock Screws	Fix or Release LCD panel
12	8/ 16 ports KVM	Modular KVM for 8/ 16 ports



2.4 Connecting the Console

To connect an LCD console to a computer, perform the following steps



- 1. Turn off your computer. You should always turn off your computer before connecting or disconnecting a device.
- 2. Connect the video (VGA) connector of the KVM cable to the video card connector on the rear panel of your computer.
- Identify and connect the PS/2 mouse and PS/2 keyboard connector to the correct PS/2 ports on the rear panel of your computer. Or you can use USB interface to connect your computer (Use PS/2-USB switch to select your interface). The switch has to be on PS/2 side when you use PS/2 interface connector.)



Please don't plug PS/2 and USB cables at the same time



2.5 Web Management

If you have installed the IP-KVM on a network that enables DHCP, you can use the **PSetup** to find out the IP-KVM's IP.

1. Run "psetup_1.1.0.exe" from the CD

Device Setup 1.1.0			
Device	Network Configuration		
Device MAC address 00:30:4E:50:00:11	IP auto configuration None DHCP BOOTP		
Refresh Devices	IP address 192.168.1.1		
Device Type	Subnet mask 255.255.255.0		
Enable WLAN Configuration (WLAN Devices only)	Gateway		
Authentication	Wireless LAN Configuration		
Super User login	Wireless LAN ESSID		
Super User password ?	Enable WEP encryption		
New Super User password	WLAN WEP Key		
New password (confirm)	Query Device Setup Device		
OK Cancel Help			
Status: Found D devices (D network, D USB)			

2. Please click on Refresh button to find your IKVM-17080/17160 in the network. You can find the MAC address labeled on the bottom side of the IP-KVM module. MAC address is detected as connection from computer and IP-KVM is valid through USB or network.

3. [DHCP server available in the Network] Lanuch Web Browser and key in the IP address of the IKVM-17080/17160. Please configure your PC to the same IP subnet as well.

4. [DHCP server not available in the Network] Lanuch Web Browser and key in the default IP address of the IKVM-17080/17160. If there is no DHCP server in the network, your IKVM-17080/17160 will use IP address **192.168.0.20** as its default. Please configure your PC to the same IP subnet as well.

5. As soon as the Web browser start up, IKVM-17080/17160 will prompt for User name and Password. Please key in "**super**" and "**pass**".

6. You may now start to configure your IKVM-17080/17160 such as Remote Control, Network Configuration, and so on.



3. OSD Operation

3.1 Panel Controls and LCD OSD Function

Controls	Description
ധ	Soft power on/off button. Adjacent LED is lit when
\bigcirc	on.
Мори	To access the main menu. This button also acts as
menu	the "Enter" button.
Auto	Auto-synchronize and scale down display to any
Auto	valid factory preset timings.
▲UP	Press to scroll the function you want to adjust.
V DOWN	Press to scroll the function you want to adjust.

Table 3.1 Panel Controls



Figure 3-1. OSD Control Bar

Controls	Description
Auto	Automatically size, centers direction and fine tunes
Auto	Video signal to eliminate "noise" and direction
Color∉	Adjusts contrast of the screen image
Contrast	
Color 🖑	Adjusts back ground black level of the screen image
Brightness	
Color 🖑	Adjusts for color with red, green and blue
Color Adjust	
Color 🖑	Adjusts the temperature with red, green and blue
Color Temp.	
Image setting 🖑	Adjusts image distortion appearing as horizontal bar on
Clock	the screen
Image setting 🖑	Adjusts image distortion appearing as horizontal bar on
Phase	the screen



Controls	Description	
Image setting 🖑	Adjusts gamma of the screen image	
Gamma		
Image setting 🖑	Adjusts sharpness of the screen image	
Sharpness		
Position 🖑	Moves the screen image left or right	
H. Position		
Position 🖑	Moves the screen up or down	
V. Position		
OSD Menu 🖑	Adjust operation of un/down on the screen	
OSD V. Position	Aujust operation of up/down on the screen	
OSD Menu &∕	Adjust sparstion of right/left on the series	
OSD H. Position	Adjust operation of right/left on the screen	
OSD Menu 🖑	OSD "time of staying" on the screen	
OSD Time		
	Allows you to choose from among five languages as	
Language	English, French, Deutsch, Espanol, Traditional	
	Chinese, Simplified Chinese and Japanese.	
MISC 🖑	Analog/Digital signal choice	
Signal Source		
MISC々	Restore all controls back to factory setting	
Reset		
MISC & Factory	Modify offset and gain of ADC and specific color	
mode	temperature for customize	
Exit	Exit OSD control	
DDCCI support	Enable or disable DDC function	



3.2 KVM OSD Function

3.2.1 Manual Key

It is the simplest switching method. You just need to press the Port Selection Switch on the front panel of the KVM. The Selection LED (Red) is on, indicating that you are switching to the corresponding port.



- 1. The Port Selection Switch functions only when connected to a PC.
- 2. If the Offline Skip of the OSD System Setting is Auto, then you can not
 - make any switch when pressing an offline Port Selection switch
- 3. For Auto Scan Mode, none of the Port Selection Switches functions

3.2.2 Hot Key and Mouse Clicking

Hot key and mouse clicking are applicable for switching a small section. You can select the SVS (Smart View Setting) from the OSD of the PC first (for a quick switch of PC) and use the keyboard (press the **Ctrl** key twice) or the mouse (press and hold the middle button while pressing the left or right button) to switch to the previous or next set of PC.



The mouse must have at least 3 keys. As far as you select a PC with the SVS, you can use this method for the switch.

3.2.3 OSD (On Screen Display)

Press the NumLock on the keyboard twice or simultaneously press the Push Buttons 1 and 2 of the Port Selection Switch on the KVM panel to start the OSD. Use the key Up, Down and Enter keys on the keyboard to switch or directly move the mouse to the target PC, and then double click the left button.

Additionally, you also can use the numeric keys to enter the direct switch. For example, if you want to switch a PC to the Slave KVM port 04 under the Master KVM port 03, then you can start the OSD and then directly enter 0304. If you are using a standalone machine, then just enter the first two digits.

More OSD related information is given in the following OSD sections.

Start

Press the NumLock twice or the Port Selection Switches 1 and 2 on the panel to enter the OSD.





If you have modified the Hot Key for starting the OSD and are unable to enter the OSD by pressing NumLock, then you can start the OSD by using Port Selection Switch first, and then press F9 to enter into the System Setting to modify the options of the OSD Entry Hot Key.

Operation

You can operate the options by keyboard or mouse. For the keyboard operation, besides the common Up and Down keys, there are special function keys such as Enter, Space Bar, Function Key (F1, F4...) under the OSD remark field. For the mouse operation, the left key refers to Enter and the right key refers to Exit. For example, move the mouse point to your desired PC, and click the left key. The selection bar will move to that position and then click the left key again for the execution.



You must use the keyboard to complete the two functions: Name Edit and Password.



Switch Menu



 01 02 03 04 05 06 07 08 	Mail Ser 1 Mail Ser 2 Mail Ser 3 Mail Ser 4 Mail Ser 5 Mail Ser 6 Mail Ser 7 Mail Ser 8	
	Edit	Esc: Exit
F1: Smart View	Enter: Switching	
F4: Auto Scan	F9: System Setti	ng
F5: Clear Name List		

- This field provides the information of the currently connected PC. As shown in the figure above, 03 refer to the Port Number of the Master; 08 refer the Port Number of the Slave; and Mail Ser 4 is the name of this PC defined by Users. If a PC connects to the Master, then the number consists of the first two digits. If a User has not given a name for the PC, the name field will be blank.
- This field shows the list of the Master KVM or a certain set of Slave KVM currently displayed on the OSD. We recommend you to give a name to the Slave KVM, or else the display after LIST: will be blank.
- This field shows the list of connections to the KVM, and the fields are described below : PWR: It shows the status of power supply and indicates a normal power supply for the equipment (PC or KVM) connected to the CPU port.

C#: It shows the channel number; the IKVM-17080 will display 01~08 and the IKVM-17160 will display 01~08; 09~16 (Since the screen cannot display all at a time, therefore you can use PgUp/PgDn to switch the pages).

KVM: It shows the KVM model. If there is a number in this field, it shows that a set of KVM connects to this port. The number 04 indicates Port 4 and 08 indicates Port 8 and 16 indicates Port 16 and so on.



If the connected KVM is not on, there will have no number in this field.

NAME: It shows the name of the equipment, and users can name the Slave KVM or



PC on their own. There are a total of 12 characters selected from the group of "A~Z", "a~z", "0~9", "+", "-", "*", "/", "=", "(",")", ", ", ", ": ".



Please use the CapsLock to toggle the upper and lower cases.

SVS: It shows the Smart View Setting; use \oplus to open and Θ to close. The SVS is blank and not clickable if the KVM is connected in parallel. If this option is set to open, then you can make the switch by operating the Hot Key Switch or Mouse Clicking or selecting the option by Auto Scan. You also can use mouse to click this field.

Selection BAR: It shows the selection bar (Green); you can use the $\uparrow\downarrow$ keys on the board to move the selection bar, and the situated position indicates the selected target for giving instructions. For example, if the selection bar points at C#05 and you press Enter, then the system will switch to that particular PC or press the "Space BAR" to start editing the name. Press F4 to enable/disable the SVS option.

0 ₽↑↓:	Use the $\uparrow\downarrow$ keys on the keyboard or the mouse to
(Move)	move the selection bar
SPACE:	The "Space BAR" on the keyboard is used to start
(Edit)	editing the name of the PC or KVM.
ESC:	Use the "Esc" key on the keyboard to exit the
(Exit)	current option or exit OSD.
F 4.	Use the F4 key to run Auto Scan, and you can set
F4.	the residing time, channel display time and mode
(Auto Scan)	of the Auto Scan from System Setting.
F9:	Use the F9 key to enter into the System Setting
(System Setting)	Menu.
	Use the F5 key to clear the values of all Name
	fields. If you clear the name list under the Master
F5:	screen, then you will also clear the name lists
(Clear Name List)	under all slaves. If you clear the name list under a
	certain slave, then you only clear the name list
	under that particular Slave KVM.
F1:	
(Smart View)	It switches the Smart View Setting.

4 · Instruction Hint Field:





System Setting Menu

System Setting			
Channel Display Mode	Full		
Channel Display Tim	5 Sec		
Auto Scan Time	5 Sec		
OSD Entry Hot Key	Number Lock		
Hot Key Switching	OFF		
Mouse Clicking	OFF		
Beeper Sound	ON		
Offline Skip	Manual		
OSD Language	English		
Security Level	None		
Console Lock Time	5 Min		
↑↓	Move		
Space	Change		
Esc	Exit		
F1	Information		
F4	OSD Position		
F8	Restore Default Setting		

ltem	Description	Default	Other Selection
	For Port Switching, Auto Scan		
Channel	and OSD Close, the Monitor will	E. II	Number,
Display Mode	show the Channel information		Name
	and mode selection.		
Channel	It shows the time for displaying		10Sec,
Display Timo	channel information	5 Sec	Always,
			None
			10Sec,
Auto Scan Timo	For Auto Scan, it shows the	5 500	20Sec,
	residing time for each port.	5 000	30Sec,
			60Sec
OSD Entry Hot	Select to turn on the hot keys of	Numl ook	Scroll Lock,
Кеу	the OSD control screen.	NUMEOCK	Shift, None



Hot Key Switching	Turn on/off the "Ctrl" hot keys on the keyboard for switching computer functions.	OFF	ON						
Mouse Clicking	Turn on/off the keys of the mouse for switching computer functions.	OFF	ON						
Beeper Sound	Turn on/off the beeper sound ON OFF								
Offline Skip	Set the offline skip function to auto or manual.	Manual	Auto						
OSD Language	Select the language for the OSD.	English	Francis, Deutsch, Italian, Espanola						
Security Level	Select the security mode and level.	None	Low, High						
Console Lock Time *1	The lock time of console port.	5 Min	1Min, 3Min, 10Min, 30Min, 60Min						

*1: You can select this option only if the Security Level is not "None".

F1: Information; It provides the model name and F/W version information, which is helpful for users to understand the updated version.

F4: OSD Position; you can enter the OSD position to make adjustments; we recommend you to unify the resolution for all computer display mode, and use this function again to adjust the OSD position. You can use the Up, Down, Left or Right keys on the keyboard or a mouse to move the OSD position.

F8: Restore Default Setting; Restore the factory default settings. Please note that all name lists will be cleared and the system settings are set to the default settings as shown in the table above.

Esc: Exit; Exit the system setting and close the OSD. If you have made changes in this option, the system will ask whether or not you want to save the setting before the selected option is effective.

Auto Scan Mode: You can start the OSD first and press "F4" to enter the Auto Scan



Mode. If you want to scan the PC, you must use the Smart View Setting to select the Auto Scan Time in the System Setting for the residing time, which includes 5 sec, 10 sec, 20 sec, 30 sec and 60 sec. You can adjust the Channel Display Mode and Channel Display Time from the Channel Display mode. By then, all keys on the panel, keyboard and mouse are not operable. You can only use the ESC key to exit the Auto Scan Mode.

Security Mode: Switch the Security Level from "None" to "Low" in the System Setting, and enter your Password ("A~Z", "0~9", a maximum of 12 characters), and the security will be effective after you confirm the Password. The use of the Console Lock Time is to set the time to enter a security mode after the keyboard and mouse has idled for a predetermined time. Once you enter into the security mode, you need to enter the correct password before you can move the mouse or enter any key from the keyboard. You need a correct password to operate the whole system normally.



What should I do if I forgot my Password?

After you enter a wrong password for 5 consecutive times, a time delay bar will appear, and a set of "Magic Numbers" will show up at the bottom. Record the magic numbers and contact with your distributor.

Console - Reconfirmed: Simultaneously press the largest two numbered Port Selection Switches on the panel to start the Console- Reconfirmed. If you change the Console equipment, please use this function to let KVM reconfirm the equipment at the Console end once.

EDID & DDC: A vast majority of computer monitors supports the Extended Display Identification Data (EDID) and allows data access by Display Data Channel (DDC). The KVM also supports these two specifications, but the KVM only reads the EDID of the Monitor when the KVM is on. If it is necessary to change monitors during an operation, please use the Console Reconfirmed function to read the EDID again.



4. Remote Usage

4.1 Prerequisite

The IKVM-17080/IKVM-17160 feature an embedded operating system and applications offering a variety of standardized interfaces. This chapter will describe both these interfaces, and the way to use them in a more detailed manner. The interfaces are accessed using the TCP/IP protocol family, thus they can be accessed using the built-in Ethernet port.

The following interfaces are supported:

HTTP/HTTPS

The IKVM-17080 / IKVM-17160 can be entirely managed using a standard web browser. You can access the IKVM-17080 /17160 using the insecure HTTP protocol, or using the encrypted HTTPS protocol. Whenever possible, use HTTPS.

Telnet

A standard Telnet client can be used to access an arbitrary device connected to the IKVM-17080 / IKVM-17160 port via a terminal mode.

The primary interface of the IKVM-17080 / IKVM-17160 is the HTTP interface. This is covered extensively in this chapter. Other interfaces are addressed in subtopics.

In order to use the Remote Console window of your managed host system, the browser has to come with a Java Runtime Environment version 1.1 or higher. If the browser has no Java support (such as on a small handheld device), you are still able to maintain your remote host system using the administration forms displayed by the browser itself.

Important: We recommend installing a Sun JVM 1.5 or above.

For an insecure connection to the IKVM-17080 / IKVM-17160, we can recommend the following browsers:

- Microsoft Internet Explorer version 6.0 or higher on Windows 98, Windows ME, Windows 2000, Windows XP, Windows Server 2003 and Win7.
- Netscape Navigator 7.0 or Mozilla 1.6 on Windows 98, Windows ME, Windows 2000, Windows XP, Windows Server 2003, Win7 and Linux and other UNIX-like Operating Systems

In order to access the remote host system using a securely encrypted connection, you need a browser that supports the HTTPS protocol. Strong security is only assured by using a key length of 128 Bit. Some of the old browsers do not have a strong 128 Bit encryption algorithm.

Using the Internet Explorer, open the menu entry "?" and "Info" to read about the key length that is currently activated. The dialog box contains a link that leads you to information on how to upgrade your browser to a state of the art encryption scheme. The picture below shows the dialog box presented by the Internet Explorer 6.0.





Newer web browsers do support strong encryption on default.

4.2 Login and Logout

4.2.1 Login



Your web browser has to accept cookies, or else login is not possible.

Launch your web browser. Direct it to the address of your IKVM-17080 / IKVM-17160, which you configured during the initial configuration. The address used might be a plain IP address or a host and domain name, in the case where you have given your IKVM-17080 / IKVM-17160 a symbolic name in the DNS. For instance, type the following in the address line of your browser when establishing an unsecured connection:

http://<IP address of IKVM-17080 / IKVM-17160 > When using a secure connection, type in: https://<IP address of IKVM-17080 / IKVM-17160>

This will lead you to the IKVM-17080 / IKVM-17160 login page.

Authenticate	e with Username and Passw	ord!
Username]
Password		
	Login	

The IKVM-17080 / IKVM-17160 have a built-in super user that has all permissions to administrate the device:

Login name	super (in default)
Password	pass (in default)



Note

Please change the super user password immediately after the first time login successfully. Not changing the pass phrase for the super user is a severe security risk and might result in unauthorized access to the IKVM-17080 / IKVM-17160 and to the host system including all possible consequences!

Having logged into the IKVM-17080 / IKVM-17160 successfully, the main page of the IKVM-17080 / IKVM-17160 will appear.

	Ame Home	Console	Logout
Preview – Desktop size: 640 x 4	80		
	Remote Console Preview – Desktop size: 640 x 4 Refresh	Remote Console Preview Remote Console Preview Desktop size: 640 x 480 Refresh	Remote Console Preview Remote Console Preview Desktop size: 640 x 480 Refresh

This page consists of three parts; each of them contains specific information. The buttons on the upper side allow you to navigate within the front end.

A Home	Return to the main page of the IKVM-17080 / IKVM-17160.
Console	Open the IKVM-17080 / IKVM-17160 remote console.
Logout	Exit from the IKVM-17080 / IKVM-17160 front end.

The lower left frame contains a navigation bar and allows you to switch between the different sections of the IKVM-17080 / IKVM-17160. Within the right frame, task-specific information is displayed that depends on the section you have chosen before. **Warning:** If there is no activity for half an hour, the IKVM-17080 /17160 will log you out, automatically. A click on one of the links will bring you back to the login screen.



4.2.2 Logout



This button logs out the current user and presents a new login screen. Please note that an automatic logout will be performed in case there is no activity for half an hour.

4.3 The Remote Console

	_
r	

Clicking on the icon is opens an additional Remote Console window. The Remote Console window is a Java Applet that tries to establish its own TCP connection to the IKVM-17080 /17160. The protocol that is run over this connection is neither HTTP nor HTTPS, but RFB (Remote Frame Buffer Protocol). Currently, RFB tries to establish a connection to port number 443. Your local network environment has to allow this connection to be made, i.e. your firewall end, in case you have a private internal network, your NAT (Network Address Translation) settings have to be configured accordingly.

In case the IKVM-17080 /17160 are connected to your local network environment and your connection to the Internet is available using a proxy server only without NAT being configured, the Remote Console is very unlikely to be able to establish the according connection. This is because today's web proxies are not capable of relaying the RFB protocol.

In case of problems, please consult your network administrator in order to provide an appropriate network environment.

Once the Remote Console is connected, it displays the screen content of your host system. The Remote Console will behave exactly in the same way as if you were sitting directly in front of the screen of your remote system. That means keyboard and mouse can be used in the usual way. However, be aware of the fact that the remote system will react to keyboard and mouse actions with a slight delay. The delay depends on the bandwidth of the network which you use to connect to the IKVM-17080 / IKVM-17160.

With respect to the keyboard, the very exact remote representation might lead to some confusion as your local keyboard changes its keyboard layout according to the remote host system. If you use a German administration system, and your host system uses a US English keyboard layout, for instance, special keys on the German keyboard will not work as expected. Instead, the keys will result in their US English counterpart. You can circumvent such problems by adjusting the keyboard of your remote system to the same mapping as your local one.

The Remote Console window always tries to show the remote screen with its optimal size. That means it will adapt its size to the size of the remote screen initially and after the screen resolution of the remote screen has been changed. However, you can always resize the Remote Console window in your local window system as usual.

4.3.1 Remote Console Control Bar

The upper part of the Remote Console window contains a control bar. Using its elements you can see the state of the Remote Console and influence the local Remote Console settings. A description for each control follows.



ĺ	👙 KVM-IP Remote Console - 192.168.1.1			
	Ctrl+Alt+Delete	🗐 🕀 📐 Sync 🖓	Opti ons ►	Control Bar
		A shirt		Control Ba
			>	
	Console(Norm): Desktop size is 1,024 x 768 Fps:	: 0 In: 0 B/s Out: 224 B/s		Status Line

Controls	Description
Ctrl+Alt+Delete	Special button to send the "Control+Alt+Delete" key
	combination to the remote system.
(If the video display is of bad quality or distorted in some way,
+++	press this button and wait a few seconds while the
Auto Adjust Button	IKVM-17080 / IKVM-17160 tries to adjust itself for the best
	possible video quality.
	Pressing this button to activate the mouse synchronization
Sync	process. Choose this option in order to synchronize the local
Mauga Synahraniza	with the remote mouse cursor. This is especially necessary
Nouse Synchronize	when using accelerated mouse settings on the host system.
Bullon	In general, there is no need to change mouse settings on the
	host.
	Switches between the Single Mouse Mode (where only the
13 1343	remote mouse pointer is visible) and the Double Mouse Mode
Single/Double Mouse	(where remote and local mouse pointers are visible and need
Mode	to be synchronized). Single mouse mode is only available if
	using SUN JVM 1.5 or higher.
Options	Click on this button, an Options menu will appear:



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A short description of the options follows.

Monitor Only

Toggles the Monitor only filter on or off. If the filter is switched on, no remote console interaction is possible, and monitoring is possible.

Exclusive Access

If a user has the appropriate permission, he can force the Remote Consoles of all other users to close. No one can open the Remote Console at the same time again until this user disables the exclusive access, or logs off.

A change in the access mode is also visible in the status line.



Scaling

Allow you to scale down the Remote Console. You can still use both mouse and keyboard, however the scaling algorithm will not preserve all display details.







Mouse Handling

The submenu for mouse handling offers two options for synchronizing the local and the remote mouse pointer.

Fast Sync--The fast synchronization is used to correct a temporary, but fixed skew.

Intelligent Sync--Use this option if the fast sync does not work or the mouse settings have been changed on the host system.

This method takes more time than the fast one and requires a correctly adjusted picture. Use the auto adjustment function or the manual correction in the Video Settings panel to setup the picture.

Local Cursor

Offers a list of different cursor shapes to choose from for the local mouse pointer. The selected shape will be saved for the current user and activated the next time this user opens the Remote Console. The number of available shapes depends on the Java Virtual Machine; a version of 1.2 or higher offers the full list.



Video Settings

Opens a panel for changing the IKVM-17080 / IKVM-17160 video settings.

擔 Video Settings 👘		×
Brightness	۲ D	80
Contrast Red		100
Contrast Green	۲ D	100
Contrast Blue	۲ () () () () () () () () () (100
Clock	۲ D	1056
Phase		8
Horizontal Offset	▲ ▶	217
Vertical Offset	<u>۱</u>	23
	Reset this Mode Reset All Modes	
Save Changes	800x600 60Hz	Undo Changes



Controls	Description					
Brightness	Controls the brightness of the picture.					
Contrast	Controls the contrast of the picture.					
	Defines the horizontal frequency for a video line and depends					
	on the video mode. Different video card types may require					
	different values here. The default settings in conjuction with					
Clock	the auto adjustment procedure should be adequate for all					
	common configurations. If the picture quality is still bad after					
	auto adjustment, you may try to change this setting together					
	with the sampling phase to achieve a better quality.					
Dhasa	Defines the phase for video sampling, used to control the					
Phase	display quality together with the setting for sampling clock.					
	Use the left and right buttons to move the picture in					
Horizontal Position	horizontal direction while this option is selected.					
	Use the left and right buttons to move the picture in vertical					
Vertical Position	direction while this option is selected.					
Reset this Mode	Reset mode specific settings to the factory-made defaults.					
Reset all Modes	Reset all settings to the factory-made defaults					
Save Changes	Save changes permanently.					
Undo Changes	Restore last settings.					

Soft Keyboard

																				×
Esc		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	Ρ	rn	Ň	\$	В	rk	
1	1	2	3	4	5	6	7	8	9	0	-	=	←	In	۲	Î	₿	1	*	-
₩	q	w	е	r	t	У	u	i	0	р	[1		De	En	Ŧ	Κ.	Ť	Î	
Ð	а	s	d	f	q	h	i	k	Т	:	1	1	4				+	5	→	+
Û	١	z	х	С	٧	b	n	m			1	٤	2		Ť		En	ŧ	Ŧ	
С	trl	St	Alt						A	lt	Me	С	trl	+	¥	→	In	IS	De	÷

Opens up the Menu for the Soft-Keyboard.

Controls	Description
Show	Pops up the Soft-Keyboard. The Soft-Keyboard is necessary in case your host system runs a completely different language and country mapping than your administration
	machine.
Mapping	Used for choosing the according language and country
	mapping of the Soft-Neyboard.



Local Keyboard

Used to change the language mapping of your browser machine running the Remote Console Applet. Normally, the applet determines the correct value automatically. However, depending on your particular JVM and your browser settings this is not always possible. A typical example is a German localized system that uses an US-English keyboard mapping. In this case you have to change the Local Keyboard setting to the right language, manually.

Hotkeys

Opens a list of hotkeys defined previously. Choose one entry, the command will be sent to the host system.

A confirmation dialog can be added that will be displayed before sending the selected command to the remote host. Select "OK" to perform the command on the remote host.



4.3.2 Remote Console Status Line

The Remote Console Status Bar shows both console and the connection state. The size of the remote screen is displayed. The value in brackets describes the connection to the Remote Console. "Norm" means a standard connection without encryption, "SSL" indicates a secure connection.

Consol	e(Norm): Desk	top size is 1,024 x 768	8
--------	---------------	-------------------------	---

Fps: 0 In: 0 B/s Out: 224 B/s

Furthermore, both the incoming ("In:") and the outgoing ("Out:") network traffic are visible (in B/s). If compressed encoding is enabled, a value in brackets displays the compressed transfer rate.

In: 0 B/s Out: 224 B/s



5. Menu Options

5.1 Remote Control



The Remote Console is the redirected screen, keyboard and mouse of the remote host system that IP-KVM controls. The Remote Console window is a Java Applet that tries to establish its own TCP connection to the IKVM-17080 / IKVM-17160.

Starting the Remote Console opens a new window displays screen movement of host system, with its size automatically adjusted to optimum. Keyboard and mouse are redirected to control the host system simultaneously. A slight delay may present depending on the bandwidth of network.

5.1.1 KVM Console



To open the KVM console either click on the icon **Console** or **Remote Control > KVM Console** of the menu entry on the left or **Click to open** of the console picture on the right

5.1.2 Telnet/SSH Console

In general, the Telnet or SSH interface supports two operation modes: the **command** line mode and the **terminal** mode. The command line mode is used to control or display some parameters. In terminal mode the pass-through access to serial port is activated (if the serial settings were configured accordingly). All inputs are redirected to the device on serial port and its answers are displayed on the Telnet interface.

In order to log in with Telnet or SSH, you have to enable the access settings from **Device Settings > Network.**



- Network Miscellaneous Settings
Remote Console & HTTPS port 443 *
HTTP port 80 *
TELNET port 23 *
SSH port 22 *
Bandwidth Limit kbit/s *
Enable TELNET access *
Enable SSH access *
Disable Setup Protocol *
Angle Reast to defeat to

Apply Reset to defaults * Stored value is equal to the default.

5.1.3 Remote Wakeup

- Remot	e Wakeup Serve Wake Up	r List Server Description	Server IP	Server MAC
	Server 1	Example	192.168.123.1	00:00:00:00:00:01
		Wake Up	Clear	
- Remot	e Wakeup Serve	r Settings ——		
	Server Description	Server IP	Server M	AC
Server 1	Example	192.168.123.	1 00:00:00	:00:00:01 Get MAC
			More e	entries
	Apply	Reset	to defaults	

The IKVM-17080 / IKVM-17160 provides the remote power wakeup function, which can remotely wake up the sleeping computer. With this feature, the computers that are not in use for now can be shut down and remotely wake up the computer when want to use it, and thus save the power energy.





Settings on target computer:

In order to be waked up, some settings have to be done on the target computer:

1. BIOS setting:

Have the wake up function in BIOS Enabled

Note: the naming in BIOS varies depending on the BIOS type, it may be **Wake On LAN/PME**, **PME Event Wake Up**, or **Power On By PCI Device**.

2. Windows Settings:

Enter the Properties of Local Area Connection.

acherar	Advanced
Conne	t using:
BB	IVIDIA nForce Networking Controller
This c <u>c</u>	nnection uses the following items:
	Client for Microsoft Networks Kaspersky Anti-Virus NDIS Filter File and Printer Sharing for Microsoft Networks
<	
Desc	nstall <u>U</u> ninstall <u>Properties</u> iption
Allov netv	is your computer to access resources on a Microsoft ork.
Sho	w icon in notification area when connected fy me when this connection has limited or no connectivity

Make sure Wake on Magic packet is Enable.

General	Advanced	Driver	Power Manag	jement	
The foll the proj on the i Propert	owing proper perty you war right. y:	ties are av nt to chang	ailable for this le on the left,	network adapter. and then select its Value:	Click value
Flow C IEEE8 Low P Netwo Optimi: Speed VLAN VLAN VLAN Wake Wake	Control 02.1P Suppo ower State Li ze For /duplex settin Id Support on Magic pa on pattern DnLAN From	rt ink Speed ngs cket PowerOff		Enable	*
					-



NVIDIA nForce Networking Controller Properties General Advanced Driver Power Management Image: State of the stat

Make sure the following two items are selected.

Settings on IP-KVM:

The control can be easily set up from the web page.

- 1. Click on **Remote Control > Remote Wakeup** to bring up the configuration page.
- 2. Click on More entries to add additional controlled target
- 3. Key in the server description and the server's IP address
- 4. Click on **Get MAC** to get the corresponding MAC address of the server
- 5. Click on **Apply** to save the entry

Click on Reset to defaults if want to clear all entries

5.2 Virtual Media

The IKVM-17080 / IKVM-17160 provide a powerful capability called Virtual Media (or Virtual Disk). Using the USB port, the IKVM-17080 / IKVM-17160 can present either a local floppy disk image or a redirected remote CD/DVD-ROM image to the target computer. This can allow system recovery in conditions as bad as having local disks down and no primary network connection. With Floppy Disk Image, the user can upload an image to the IP-KVM's memory, which then emulates a locally attached floppy drive. With CD/DVD-ROM Image, a Windows or other SAMBA share can emulate a locally attached CD/DVD-ROM, for instance to update software.

Drive Redirection allows you to share (redirect) your local drive (floppy drives, hard disks, CD ROMs and other removable devices like USB sticks) with the remote system over a TCP network connection. Thus, with Drive Redirection, you can use a virtual disk drive on the remote computer instead of an image file. It is also possible to enable a remote machine to write data to your local disc.





Before go ahead with this setup, both remote user computer and local computer (the one connected with the IKVM-17080 / IKVM-17160 unit) would have to have Operating System Win2000, XP or above. This function would not work on other platforms at this moment.

Before using Virtual Media, please connect the USB cable from IKVM-17080 / IKVM-17160 to host computer. After connecting the USB cable, you can see a "Removable Disk" on the host computer. Below is the host computer screen (the computer which connected with IKVM-17080 / IKVM-17160).

5.2.1 Drive Redirection

The Drive Redirection is another possibility to use a virtual disc drive on the remote computer. With Drive Redirection you do not have to use an image file but may work with a drive from your local computer on the remote machine. The drive is hereby shared over a TCP network connection. Devices such as floppy drives, hard discs, CD-ROMs and other removable devices like USB sticks can be redirected. It is even possible to enable a write support so that for the remote machine it is possible to write data to your local disc.

- Active Image No disk emulation set.		
Drive Redirection Drive Redirection allows you to share your local drive		
(floppy, CD/DVD, removable disks and harddisks) with the remote system.		
Disable Drive Redirection *		
Force read-only connections *		
Apply Reset to defaults * Stored value is equal to the default.		

Please note that Drive Redirection works on a level which is far below the operating system. That means that neither the local nor the remote operating system is aware that the drive is currently redirected, actually. This may lead to inconsistent data as soon as one of the operating systems (either from the local machine, or from the remote host) is writing data on the device. If write support is enabled the remote computer might damage the data and the file system on the redirected device. On the other hand, if the local operating system writes data to the redirected device the drive cache of the



operating system of the remote host might contain older data. This may confuse the remote host's operating system. We recommend to use the Drive Redirection with care, especially the write support.

Disable Drive Redirection

To disable the function of Drive Redirection.

Force read-only connections

If enabled the Write Support for the Drive Redirection is switched off. It is not possible to write on a redirected device.

Click **Apply** to submit your changes.

5.2.2 Virtual Drive

- Vietual Deivo Ontiono		
- virtual Drive Options		
Disable USB Mass Storage if no image is loaded *		
	iss storage if no image is loaded	
Apply	Reset to defaults	
	hopot to dordarto	
* Stored va	alue is equal to the default.	



Set this option to disable the mass storage emulation (and hide the virtual drive) if not mounting a image file or drive to the host system. To set this option, press the button "Apply".

Note: If unset, and no file image will be found it may happen that the host system will hang on boot due to changes in the boot order, or the boot manager (LILO, GRUB). This case was reported for some Windows versions (2000, XP), other OS might not be fully excluded. This behavior depends on the BIOS version used in that machine.

5.2.3 CD/DVD Image

Use Image on Windows Share (via SAMBA)

To include an image from a Windows share, select "CD/DVD Image" from the submenu.

- Active Image			
No disk emulation set.			
- Turana an Windows Ch			
Image on windows Sn	are		
This option allows you to share a CD/DVD image			
over a Windows Share.			
This image will be emulate	d to the host as USB device.		
Share host			
Share folder name			
Image file name			
inage ne name			
User (optional)			
Password (optional)			
r	Set		
l l			

	System Setting
Share host	The server name or its IP address (the PC that
	shares out the image file). On Windows 95, 98 and
	Windows ME do not specify the IP address but the
	server name ("NetBIOS Name").
Share folder name	The name of the share to be used
Image file name	The image file name on the share folder.
User (optional)	If necessary, specify the user name for the share
	named before. If unspecified and a guest account
	is activated, this guest account information will be
	used as your login.
Password (optional)	If necessary, specify the password for the given
	user name.



Notes:

- 1. The output image extension file name has to be 'iso', e.g. CD-Rom_vir.iso.
- 2. You may create an ISO image size up to 650Mb (for CD-ROM). This drive would be in read-only mode and would not allow you to write any information on this drive but copying only. This drive would be bootable under DOS mode if the motherboard / BIOS on the host computer support USB BOOTABLE function. For emulating DVD Drive, please use **Drive Redirection** function.
- 3. The above information has to be given from the point of view of IP-KVM with correct IP address and device name. Administrative permission is required as regular user may not have the right to access. Please login as a system administrator (or as "root" on UNIX systems).
- 4. The specified image file is supposed to be accessible from the IP-KVM. The information above has to be given from the point of view of the IP-KVM. It is important to specify correct IP addresses, and device names. Otherwise, IP-KVM may not be able to access the referenced image file properly; leave the given file unmounted and will display an according error message, instead. So, we recommend to state correct values and repeat this steps if necessary.

Furthermore, the specified share has to be configured correctly. Therefore, administrative permissions are required. As a regular user you may not have these permissions. You should either login as a system administrator (or as "root" on UNIX systems), or ask your system administrator for help to complete this task.



5.3 User Management

On an IP-KVM, each user name has settings and permissions associated with it. Settings affect how the user interfaces with the Remote Console. Permissions allow or forbid the user from performing various actions on the IP-KVM's web pages. A newly assigned user has permissions inherited from an assigned group, if any, or individual permissions if no group is assigned.

User Management
► Change Password
▶ Users

5.3.1 Change Password

Change Password	
Old Password	
New Password	
Confirm New Password	

Apply

- 1) Change password of currently logged in user:
- 2) Old Password: type in current password
- 3) New Password: type in new password
- 4) Confirm New Password: re-type new password for verification
- 5) Click "Apply" to submit your changes.

5.3.2 Users

User Management				
Existing users select 🗸 Lookup				
New user name				
Full user name				
Password				
Confirm Password				
Email address				
Mobile number				
Role Administrator 🐱				
Enforce user to change password on next login *				
Create Modify Delete				



The IKVM-17080 / IKVM-17160 comes with 1 pre-configured user account that has fixed permissions. The account "super" has all possible rights to configure the device and to use all functions IP-KVM offers.

Upon delivery, the account "super" has the password "pass". Make sure to change password immediately after you have installed and on initial access of your IP-KVM.

System Setting			
New User name	The new user name for the selected account.		
Password	The password for the login name. It must be at		
Passworu	least three characters long.		
Confirm password	Confirmation of the password above.		
Email address	This is optional.		
Mobile number	This information may be optionally provided.		

Select an existing user for modification. Once a user has been selected, click the lookup button to see the user information.

To create an user press the button **Create**. The **Modify** button changes the displayed user settings. To delete an user press the button **Delete**.



The IKVM-17080 /IKVM-17160 is equipped with an host-independent processor and memory unit which both have a limitation in terms of the processing instructions and memory space. To guarantee an acceptable response time we recommend not to exceed the number of 15 users connected to the IP-KVM at the same time. The memory space that is available onto the IP-KVM mainly depends on the configuration and the usage of the IP-KVM (log file entries etc.). That's why we recommend not to store more than 150 user profiles.

5.4 KVM Settings



5.4.1 User Console

The following settings are user specific. That means, the super user can customize these settings for every users separately. Changing the settings for one user does not affect the settings for the other users.



Remote Console Settings for User				
The settings on this page are user specific. Changes you make here will affect the selected user only.				
super 🗸 Update				
Transmission Encoding				
Automatic Detection *				
O Pre-configured				
Network speed LAN (high color) *				
O Manually				
Compression 0 - none 💉 *				
Color depth 16 bit - high col 🗸 *				
Remote Console Type				
🔿 Default Java VM				
Sun Microsystems Java Browser Plugin *				
If you do not have the Java Browser Plugin already				
installed on your system, this option will cause downloading of around 11 MByte Plugin code. The Plugin				
will enable extended Remote Console functionality.				
- Missellaneous Remote Console Settings				
Start in Monitor Mode *				
Start in Exclusive Access Mode *				
- Mouse Hotkey				
Hotkey Alt+F12 *				
Used for fast mouse synchronization (in Double Mouse				
mode) and to free the grabbed mouse (in Single Mouse				
modej.				
Remote Console Button Keys				
Key Definition Name				
Button Key 1 confirm Ctrl+Alt+Delete *				
More entries				
Apply Reset to defaults * Stored value is equal to the default.				

User select box

This selection box displays the user ID for which the values are shown and for which the changes will take effect. You may change the settings of other users if you have the required privileges.



Transmission Encoding

The Transmission Encoding setting allows changing the image-encoding algorithm that is used to transmit the video data to the Remote Console window. It is possible to optimize the speed of the remote screen processing depending on the number of users working at the same time and the network bandwidth of the connection line (Modem, ISDN, DSL, LAN, etc.).

Automatic detection

The encoding and the compression level is determined automatically from the available bandwidth and the current content of the video image.

Pre-configured

The pre-configured settings deliver the best result because of optimized adjustment of compression and colour depth for the indicated network speed.

Manually

Allows to adjust both compression rate and the colour depth individually. Depending on the selected compression rate the data stream between the IP-KVM and the Remote Console will be compressed in order to save bandwidth. Since high compression rates consum more computing power of IP-KVM, they should not be used while several users are accessing the IP-KVM simultaneously.

The standard color depth is 16 Bit (65536 colors). The other color depths are intended for slower network connections in order to allow a faster transmission of data. Therefore compression level 0 (no compression) uses only 16 Bit color depth. At lower bandwidths only 4 Bit (16 colors) and 2 Bit (4 gray scales) are recommended for typical desktop interfaces. Photo-like pictures have best results with 4 Bit (16 gray scales). 1 Bit color depth (black/white) should only be used for extremely slow network connections.

Remote Console Type

Specifies, which Remote Console Viewer to use.

Default Java-VM

Uses the default Java Virtual Machine of your Browser. This may be the Microsoft JVM for the Internet Explorer, or the Sun JVM if it is configured this way. Use of the Sun JVM may also be forced (see below).

Sun Microsystems Java Browser Plugin

Instructs the web browser of your administration system to use the JVM of Sun Microsystems. The JVM in the browser is used to run the code for the Remote Console window, which is actually a Java Applet. If you check this box for the first time on your administration system and the appropriate Java plug-in is not already installed on your system, it will be downloaded and installed automatically. However, in order to make the installation possible, you still need to answer the according dialogs with "yes". The download volume is around 11 Mbytes. The advantage of downloading Sun's JVM lays in providing a stable and identical Java Virtual Machine across different platforms. The Remote Console software is optimized for this JVM versions and offers wider range of functionality when run in SUN's JVM. Please make sure that you are installing Sun JVM v1.5 or above to your client system.

Miscellaneous Remote Console Settings

Start in Monitor Mode

Sets the initial value for the monitor mode. By default the monitor mode is off. In case you switch it on, the Remote Console window will be started in a read only mode.



Start in Exclusive Access Mode

Enables the exclusive access mode immediately at Remote Console startup. This forces the Remote Consoles of all other users to close. No one can open the Remote Console at the same time again until this user disables the exclusive access or logs off.

Mouse hotkey

Allows to specify a hotkey combination which starts either the mouse synchronization process if pressed in the Remote Console, or is used to leave the single mouse mode.

Remote Console Button Keys

Button Keys allow simulating keystrokes on the remote system that cannot be generated locally. The reason for this might be a missing key or the fact, that the local operating system of the Remote Console is unconditionally catching this keystroke already. Typical examples are "Control+Alt+Delete" on Windows and DOS, what is always caught, or "Control+Backspace" on Unix or Unix-like OS for terminating the X-Server. The syntax to define a new Button Key is as follows:

[confirm] <keycode>[+|-[*]<keycode>]*

"confirm" requests confirmation by a dialog box before the key strokes will be sent to the remote host.

"keycode" is the key to be sent. Multiple key codes can be concatenated with a plus, or a minus sign. The plus sign builds key combinations, all keys will be pressed until a minus sign or the end of the combination is encountered. In this case all pressed keys should be released in reversed sequence. The minus sign builds single, separate key presses and releases. The star inserts a pause with duration of 100 milliseconds.

5.4.2 Keyboard/Mouse

Keyboard/Mous	e Settings
Kowboord Model	Comparing 101/104-Kerr PC
Keyboard Model	Generic 101/104-key FC
Key release timeout	enabled *
Timeout after	25 🕶 msec *
	Enable key release timeout if you experience duplicated keystrokes during poor network performance.
Mouse speed	O Auto
	○ Fixed scaling : 0.25 v *
	 Absolute mouse scaling for MAC server
	Apply Reset to defaults * Stored value is equal to the default.

PS/2 Keyboard Model

Enables a certain keyboard layout. You can choose between "Generic 101-Key PC" for a standard keyboard layout, "Generic 104-Key PC" for a standard keyboard layout extendend by three additional windows keys, "Generic 106-Key PC" for a japanese keyboard, and "Apple Macintosh" for the Apple Macintosh. Keyboard timeout



Recommanded as "enable" for keyboard timeout when host is UNIX or UNIX-like OS.

Mouse Speed

Auto mouse speed

Use this option if the mouse settings on host use an additional acceleration setting. The IP-KVM tries to detect the acceleration and speed of the mouse during the mouse sync process.

Fixed mouse speed

Use a direct translation of mouse movements between the local and the remote pointer. You may also set a fixed scaling which determines the pixel-amount of the remote mouse pointer movement when the local mouse pointer is moved by one pixel. This option is used to manually control the remote mouse speed and only works when the mouse settings on the host are linear. This means mouse acceleration of OS should be disabled, and the intelligent mouse synchronization of IP-KVM is not functioning under this setting.

Absolute mouse scaling for MAC server

Use this option for MAC server. To set the options, click on the button **Apply**.

5.4.3 Video

Miscellaneous Video Settings					
Noise filter	small 💉 *				
Force Composite Sync (Required for Sun Computers) *					
Apply Reset to defaults					

* Stored value is equal to the default.

Miscellaneous Video Settings Noise filter

This option defines how the IP-KVM reacts to small changes in the video input signal. Turning on the noise filter can help reduce video flickering that is often caused by distortions, as well as lowering unnecessary bandwidth consumption. A large filter setting needs less network traffic and leads to a faster video display, but small changes in some display regions may not be recognized immediately. A small filter displays all changes instantly but may lead to a constant amount of network traffic even if the display content is not really changing (depending on the quality of the video input signal). All in all the default setting should be suitable for most situations.

Force Composite Sync (Required for Sun Computers)

When connecting the device directly to legacy Sun computer (with composite sync as the video output, it may be possible that IP-KVM don't recognize the composite sync automatically. To support signal transmission from a Sun machine, enable this option. If not enabled the picture of the remote console will not be visible.

To set the options, click on the button **Apply**.



5.5 Device Settings



5.5.1 Network

The Network Settings panel allows changing network related parameters. Each parameter will be explained below. Once applied the new network settings will immediately come into effect.

- Network Basic Settings		
IP auto configuration	None 💌 *	
Preferred host name (DHCP only)	*	
IP address	10.1.1.222	
Subnet mask	255.255.255.0 *	
Gateway IP address	10. 1. 1. 1	
Primary DNS server IP address	*	
Secondary DNS server IP address	*	
Server Name	KVM Server	*



- Network Miscellaneous Settings
Remote Console & HTTPS port 443 *
HTTP port 80 *
TELNET port 23 *
SSH port 22 *
Bandwidth Limit kbit/s *
Enable TELNET access *
Enable SSH access *
Disable Setup Protocol *

	Apply		Re	set	to	de	faul	.ts
*	Stored	valu	ue is	eq	ual	to	the	default



Changing the network settings of the IP-KVM might result in losing connection to it. In case you change the settings remotely make sure that all the values are correct and you still have an option to access the IP-KVM.

System Setting				
	With this option you can control if the IP-KVM			
	should fetch its network settings from a DHCP			
ID outo configuration	or BOOTP server. For DHCP, select "dhcp" , and			
	for BOOTP select "bootp" accordingly. If you			
	choose "none" then IP auto configuration is			
	disabled.			
	Preferred host name to request from DHCP			
Droforrad boat name	server. Whether the DHCP server takes the			
Freieneu nost name	IP-KVM suggestion into account or not depends			
	on the server configuration.			
IP address	IP address in the usual dot notation.			
Subnet Mask	The net mask of the local network.			
	In case the IP-KVM should be accessible from			
Cataway ID address	networks other than the local one, this IP			
Galeway IP address	address must be set to the local network			
	router's IP address.			
Primary DNS Server IP	IP address of the primary Domain Name Server			
Address	in dot notation. This option may be left empty,			



	however the IP-KVM will not be able to perform		
	name resolution.		
Secondary DNS Server	IP address of the secondary Domain Name		
IP Address	Server in dot notation. It will be used in case the		
	Primary DNS Server cannot be contacted.		
Remote Console And	Port number at which the IP-KVM's Remote		
HTTPS port	Console server and HTTPS server are listening.		
	If left empty the default value will be used.		
HTTP port	Port number at which the IP-KVM's HTTP server		
	is listening. If left empty the default value will be		
	used.		
Telnet port	Port number at which the IP-KVM's Telnet		
	server is listening. If left empty the default value		
	will be used.		
SSH port	Port number at which the IP-KVM SSH (Secure		
	SHell) server is listening to. If left empty the		
	default value (port 22) will be used.		
Bandwidth limitation	The maximum network traffic generated		
	through the IP-KVM ethernet device. Value in		
	Kbit/s.		
Enable Telnet access	This enables the Telnet function.		
Enable SSH access	This enables the SSH (Secure SHell) function.		
Disable Setup Protocol	Enable this option to exclude the IP-KVM from		
	the setup protocol. Setup protocol is a		
	proprietary layer-2 MAC-based protocol to allow		
	some configuration software to detect IP-KVM		
	devices in the network, even without IP		
	address, and then config network related		
	settings to IP-KVM.		



5.5.2 Dynamic DNS



Stored value is equal to the default.

A freely available Dynamic DNS service (www.dyndns.org) can be used in the following scenario.



The IP-KVM is reachable via the IP address of the DSL router, which is dynamically assigned by the provider. Since the administrator does not know the IP address assigned by the provider, the IP-KVM connects to a special dynamic DNS server in regular intervals and registers its IP address there. The administrator may contact this server as well and pick up the same IP address relating to his IP-KVM unit.

The administrator has to register an IP-KVM that is supposed to take part in the service with the Dynamic DNS Server and assign a certain hostname to it. He will get a nickname and a password in return to the registration process. This account information together with the hostname is needed in order to determine the IP address of the registered IP-KVM.



You have to perform the following steps in order to enable Dynamic DNS:

- Make sure that the LAN interface of the IP-KVM is properly configured.
- Enter the Dynamic DNS Settings configuration dialog as shown in Figure.
- Enable Dynamic DNS and change the settings according to your needs (see below).

Enable Dynamic DNS

This enables the Dynamic DNS service. This requires a configured DNS server IP address.

Dynamic DNS server

This is the server name where IP-KVM registers itself in regular intervals. Currently, this is a fixed setting since only dyndns.org is supported for now.

DNS System

Choose Dynamic for free DNS service. Custom for your own domain.

Hostname

This is the hostname of the IP-KVM that is provided by the Dynamic DNS Server. (use the whole name including the domain, e.g. testserver.dyndns.org, not just the actual hostname).

Username

You have registered this username during your manual registration with the Dynamic DNS Server. Spaces are not allowed in the Nickname.

Password

You have used this password during your manual registration with the Dynamic DNS Server.

Check time

The IP-KVM registers itself for initiating the IP address of IP-KVM stored in the Dynamic DNS server at this time.

Check interval

This is the interval for reporting again to the Dynamic DNS server for updating the IP address associated with the Domain Name of the IP-KVM.



The IP-KVM has its own independent real time clock. Make sure the time setting of the IP-KVM is correct. (see the Section Date And Time)



5.5.3 Security

HTTP E	ncryption			
		Force HTTPS for Web access	*	
- KVM En	cryption —			
	KVM	Encryption 🖲 Off * 🔘 Try () Force	
- Group ł	based System Acces	s Control		
	Please n	ote: 'Apply' is required, or changes	will be lost.	
	🗌 Enable (Group based System Access Control	*	
	Default Action ACCEPT	*		
Rule #	Starting IP	Ending IP	Group	Action
1	0.0.0.0	255.255.255.255	All	ACCEPT
			super	V ACCEPT V
		Append Insert Replace Del	ete	
		Apply Reset to defaults		

Force HTTPS

If this option is enabled access to the web front-end is only possible using an HTTPS connection. The IP-KVM will not listen on the HTTP port for incoming connections.

In case you want to create your own SSL certificate that is used to identify the IP-KVM refer to the Section called *Certificate*.

KVM encryption

This option controls the encryption of the RFB protocol. RFB is used by the Remote Console to transmit both the screen data to the administrator machine and keyboard and mouse data back to the host. If set to "Off" no encryption will be used. If set to "Try" the applet tries to make an encrypted connection. In case connection establishment fails for any reason an unencrypted connection will be used.

If set to "Force" the applet tries to make an encrypted connection with certificate. An error will be reported in case connection establishment fails.

Group-based System Access Control

This is the IP filtering function, it keeps unauthorized hosts from accessing to the IP-KVM by specifying IP filtering rules. It is important to fully understand what an IP filter is. If you don't fully understand this, you will get unexpected results against your original plan.

Chain rule

The **Chain rule** determines whether the access from the hosts is allowed or not. It can be one of these two values:

- ACCEPT : access allowed
- DROP : access not allowed

The rule can be configured to apply to a particular Group level (All, User, Super, Administrator).



When the IP-KVM receives a TCP packet, it will process the packet with the chain rule depicted below. The process ordering is important; The packet will enter the chain rule 1 first, if meet the rule then take action directly, otherwise go to chain rule 2.



Check the "Enable Group based System Access Control" to edit the rules

Users can add a new IP filtering rule by setting the properties at adding line by **Append** or **Insert**. User can remove a rule by **Remove** or **Delet**

Group based System Access Control								
Please note: 'Apply' is required, or changes will be lost.								
Enable Group based System Access Control *								
	Default Action ACCEPT 💙 *							
Rule #	Starting IP	Ending IP	Group	Action				
1	0.0.0	255.255.255.255	All	ACCEPT				
	192.168.123.199	192.168.123.230	super	ACCEPT 🗸				
Append Insert Replace Delete								
Apply Reset to defaults								

^{*} Stored value is equal to the default.



5.5.4 Certificate



The IP-KVM uses the Secure Socket Layer (SSL) protocol for any encrypted network traffic between itself and a connected client. During the connection establishment the IP-KVM has to expose its identity to a client using a cryptographic certificate. The default certificate comes with IP-KVM device upon delivery is for testing purpose only. System administrator should not rely on this default certificate as the secured global access mechanism through Internet.

However, it is possible to generate and install a new base64 X.509 certificate that is unique for a particular IP-KVM. In order to do that, the IP-KVM is able to generate a new cryptographic key and the associated Certificate Signing Request (CSR) that needs to be certified by a certification authority (CA). A certification authority verifies that you are the person who you claim you are, and signs and issues a SSL certificate to you.



5.5.5 Serial Port

Serial Port Settings			
Onfiguration login *			
O Modem			
Serial line speed 115200 🕶 bits/s *			
Modem init string ATZHO OK ATLOMO&K3X1 OK *			
Modem server IP address 192.168.3.1 *			
Modem client IP address 192.168.3.2 *			
Passthrough access to serial port 1 via Telnet/SSH			
Speed Data bits Parity Stop Bits Handshake 115200 • * 8 • * none • * 1 • * None • *			
Serial Port Log			
Key Word 1 Key Word			
More entries			

The IP-KVM Serial Settings allows you to specify what device is connected to the serial port and how to use it.

5.5.6 Date / Time

□ Date/Time Settings UTC Offset +/- 0 h v *	
 User specified time * 	
Date 1 / 6 / 2000 (mm/dd/yyyy)	
Time 1 : 52 : 24 (hh:mm:ss)	
Synchronize with NTP Server	
Primary Time server	*
Secondary Time server	*
Apply Reset to defaults	

* Stored value is equal to the default.

This link refers to a page, where the internal real-time clock of the IP-KVM can be set up. You have the possibility to adjust the clock manually, or to use a NTP timeserver. Without a timeserver, your time setting will not be persistent, so you have to adjust it again, after IP-KVM loses power for more than a few minutes. To avoid this, you can use a NTP timeserver, which sets up the internal clock automatically to the current UTC time. Because NTP server time is always UTC, there is a setting that allows you to set



up a static offset to get your local time.



There is currently no way to adjust the daylight saving time automatically. So you have to set up the UTC offset twice a year properly to the local rules of your country.

5.5.7 Event Log

- Event Log Targets
V List Logging Enabled *
Entries shown per page 20
Clear internal log Clear
✓ NFS Logging Enabled *
NFS Server *
NFS Share *
NFS Log File evtlog *
CMTD Lessing Enchled *
SMTP Server
Receiver Email Address *
Sender Email Address *
SNMP Logging Enabled *
SNMP Logging Enabled *
Destination IP
Community *
Event Log Assignments
Event List NFS
Board Message 🕑 * 🗹 *
Cocurity 🖂 * 🖂 *





* Stored value is equal to the default.



Important events like a login failure or a firmware update are logged to a selection of logging destinations. Each of those events belongs to an event group, which can be activated separately.

The common way to log events is to use the internal log list of the IP-KVM. To show the log list, click on "Event Log" on the "Maintenance" page. In the Event Log Settings you can choose how many log entries are shown on each page. Furthermore, you can clear the log file here.

5.5.8 Authentication

Authentication Settings	
Ocal Authentication *	
O LDAP	
User LDAP Server	*
Base DN of User LDAP Server	*
Type of external LDAP Server Generic LDAP server 🛛 💉	
Name of login-name attribute	310
Name of user-entry objectclass	*
User search subfilter	*
Active Directory Domain	*
O RADIUS	
Server Shared Secret Auth. Acc. Port Port Tin	neout Retries
1. [1812 * 1813 * 1 More Entries	* 3 *

On this screen you can specify where the IP-KVM will look in order to authenticate the users. You can use "Local Authentication", this means you need to have created the user account on the IP-KVM and the user/group information residing on the IP-KVM for authentication.

The other options allow you to specify an LDAP or a RADIUS Server to use for the login authentication. These methods are very useful when you want to map users into specific groups which have certain privileges. It is usually far easier and simpler to refer to already existing groups, rather than having to re-enter everything into the IP-KVM.





5.5.9 USB



* Stored value is equal to the default.

USB 2.0 is the default setting, if the operating system of the managed computer does not support USB 2.0, please force it to USB 1.1.

5.5.10 Config File

- Device Configuration		
Device configuration		
Configuration Restore	Browce Restore	
Configuration Backup	Backup	

With this function, the configuration settings can be saved (Backup) in a file (config.gz), or reloaded (Restore) from a previously saved configuration file.

5.6 Maintenance

The administrator performs various maintenance activities on the IP-KVM. These include viewing its status, update firmware, view the event log and reset the unit



5.6.1 Device Information

The Device Status page contains a table with information about the IP-KVM's hardware and firmware. This information is useful if technical support is required.





- Device Information -	
Product Name:	IP-KVM
Server Name:	KVM Server
Serial Number:	08051111150053
Board ID:	0a33a201e84968fb
Device IP Address:	10.1.1.222
Device MAC Address:	00:30:4F:00:49:08
Firmware Version:	04.30.06
Firmware Build Number:	49097
Firmware Description:	2011-12-07 22:53 IPKM03STD
Hardware Revision:	0x15

- Connected Users super (10.1.1.169) active

The Data file for support allows you to download the IP-KVM data file with specific support information. This is an XML file with certain customized support information like the serial number etc. You may send us this information together with a support request. It will help us to locate and solve your reported problem.

5.6.2 Even log

The figure below displays the log list including the events that are logged by the IP-KVM

– Event Loa –––––			
	[F	Prev][]
Date	Event	Description	n
01/06/2000 01:27:09	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/05/2000 23:43:45	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/05/2000 22:34:16	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/05/2000 07:07:40	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/05/2000 03:44:19	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/05/2000 03:23:37	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/04/2000 06:34:28	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/04/2000 06:08:00	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/04/2000 05:30:50	Authentication	User 'super'	logged in from IP address 10.1.1.169
01/04/2000 05:02:48	Remote Console	Connection	to client 10.1.1.169 closed.
01/04/2000 05:02:48	Remote Console	Connection	to client 10.1.1.169 established.
01/04/2000 05:00:31	Remote Console	Connection	to client 10.1.1.169 closed.
01/04/2000 05:00:20	Remote Console	Connection	to client 10.1.1.169 established.
01/04/2000 04:59:55	Remote Console	Connection	to client 10.1.1.169 closed.
01/04/2000 04:55:50	Remote Console	Connection	to client 10.1.1.169 established.
01/04/2000 04-55-10	Authoptication	Hear leunar	logged in from ID address 10 1 1 160



5.6.3 Unit Reset

This section allows you to reset specific parts of the device. This involves resetting keyboard/mouse, USB, video engine, or the IP-KVM device itself.

In general, the IP-KVM requires a reset when implementing a firmware update. In the event of an abnormal operation, a number of subsystems may be reset without resetting the entire IP-KVM.

Click **Maintenance > Unit Reset**, the following window displays.

Reset Keyboard/Mouse (PS/2) Reset			
Reset USB Reset			
Reset Video Engine Reset			
Reset Device Reset This may take up to a minute.			

To reset a certain IP-KVM functionality click on the **Reset** button as displayed in figure below.

Clicking on **Reset** of **Reset Device** will reboot the IP-KVM system. It will close all current connections to the administration console and to the Remote Console. The whole process will take about one minute. Resetting subdevices (e.g. video engine) will take few seconds only and does not result in closing connections.

Note: Only the **super** user is allowed to reset the IP-KVM.





Appendix A Cable Connectors Specifications

Cable Connectors

1. 3-in-1 VGA Cable

HDDB15 male to one HDDB15 male plus two minis din 6-pin PS/2 connectors.



3-in-1 VGA Cable Connectors

2. PS/2 keyboard to USB Changer

PS/2 (keyboard) to USB (keyboard and mouse) changer.



PS/2 keyboard to USB Changer

3. Daisy Chain Cable

VGA Cable: HDDB15 Male to Male



Daisy Chain Cable



Daisy chain needs the cable 15 lines fully connected. This is a special VGA cable, normal VGA cable have unconnected lines. Please contract your dealer for Daisy chain cable.



Appendix B Troubleshooting & Frequently Asked Questions

ake sure the mous ouse model. The inchronization proce rther explanation. Ty to correct the brig ey are out of a ra djustment feature to as the correct comb	se settings in IKVM ere are some circ ess could behave in ghtness and contras ange where the pic correct a flickering	-17080 / IKVM-17160 match the cumstances where the mouse correctly, refer to Section 3.4.3 for t settings (see section 4.3.1) until ture looks grainy. Use the auto		
y to correct the brig ey are out of a ra djustment feature to as the correct com	ghtness and contras ange where the pic correct a flickering	t settings (see section 4.3.1) until ture looks grainy. Use the auto		
as the correct com	9	Try to correct the brightness and contrast settings (see section 4.3.1) until they are out of a range where the picture looks grainy. Use the auto adjustment feature to correct a flickering video.		
Was the correct combination of user and password given? On delivery, the user "super" has the password "pass". Moreover your browser must be configured to accept cookies.				
Possibly a firewall prevents access to the Remote Console. Make sure the TCP port numbers 443 or 80 are open for incoming TCP connection establishments.				
Check whether the network connection is working in general (ping the IP address of IKVM-17080 / IKVM-17160). If not, check network hardware. Is IKVM-17080 powered on? Check whether the IP address of IKVM-17080 / IKVM-17160 and all other IP related settings are correct! Also verify that all the IP infrastructure of your LAN, like routers etc., is correctly configured. Without a ping functioning. IKVM-17080 / IKVM-17160 can't work either.				
You have to define a so-called 'Button Key'. This can be done in the Remote Console settings.				
A - Z , TILDE -, MINUS	SPACE ALTGR ESCAPE, ESC F1	PAGE DOWN UP LEFT DOWN		
=, EQUALS	F2 F3 F4	RIGHT NUM LOCK NUMPAD0		
, SLASH	F6 F7 F8	NUMPAD2 NUMPAD3 NUMPAD4		
BACK SPACE TAB [F9 F10 F11 F12	NUMPAD5 NUMPAD6 NUMPAD7 NUMPAD8		
ENTER CAPS LOCK , BACK SLASH	PRINTSCREEN SCROLL LOCK BREAK	NUMPAD9 NUMPADPLUS,NUMPAD PLUS NUMPAD/		
LSHIFT, SHIFT RCTRL RSHIFT LCTRL, CTRL	INSERT HOME PAGE UP DELETE	NUMPADMUL,NUMPAD MUL NUMPADMINUS,NUMPAD MINUS NUMPADENTER WINDOWS		
	cossibly a firewall pro cP port numbers of stablishments. meck whether the m ddress of IKVM-1700 VM-17080 powered VM-17160 and all of e IP infrastructure of ithout a ping function ou have to define emote Console sett Key (and aliases)) - 9 A - Z TILDE , MINUS =, EQUALS , LESS , SLASH BACK SPACE TAB ENTER CAPS LOCK , BACK SLASH SHIFT, SHIFT CCTRL, CTRL ALT, ALT	Dessibly a firewall prevents access to the CP port numbers 443 or 80 are operated bishments. neck whether the network connection is dress of IKVM-17080 / IKVM-17160). I VM-17080 powered on? Check whether VM-17160 and all other IP related setting is induced a ping functioning, IKVM-17080 / Jour LAN, like root ithout a ping function a so-called 'Button effect for the ping function and respect for the ping function and res		



In the browser the IKVM-17080 / IKVM-17160 pages are inconsistent or chaotic.	Make sure your browser cache settings are feasible. Especially make sure the cache settings are not set to something like "never check for newer pages". Otherwise IKVM-17080 / IKVM-17160 pages may be loaded from your browser cache and not from the card.		
Windows XP doesn't awake from standby mode	This is possibly a Windows XP problem. Try not to move the mouse while XP goes in standby mode.		
Can't upload the signed certificate in MacOS X	If an 'internal error' occurs while uploading the signed certificate, eithe change the extension of the file to .txt or add a file helper using the Interne Explorer preferences for this type of file. Make sure that the encoding is plain text and the checkbox 'use for outgoing' is checked. Anothe possibility is to use a Mozilla based browser.		
Every time I open a dialog box with some buttons the mouse pointers are not synchronous anymore	Please check, if you have an option like "'Automatically move mouse pointer to the default button of dialog boxes" enabled in the mouse settings of the operating system. This option needs to be disabled.		
What resolution support in remote side.	Please check below lists the user role permissions granted for three user role groups (<i>Super</i> , <i>Administrator</i> and <i>User</i>).		
	Resolution (x, y)	Refresh Rates (Hz)	
	640 x 350	70, 85	
	640 x 400	56, 70, 85	
	640 x 480	60, 72, 75, 85, 90, 100, 120	
	720 x 400	70, 85	
	800 x 600	56, 60, 70, 72, 75, 85, 90, 100	
	832 x 624	75	
	1024 x 768	60, 70, 72, 75, 85, 90, 100	
	1152 x 864	75	
	1152 x 870	75	
	1152 x 900	66	
	1280 x 960	60	
	1280 x 1024	60, /5	
	1600 x 1200	60	