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User Manual

2/4-Port 4K Dual View KVMP™ Switch with
HDMI® Connection, USB 3.0 Hub and Audio

GCS1942H / GCS1944H

PART NO. M1647 / M1648

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Safety Instructions

- Read all of these instructions. Save them for future reference
- This device is for indoor use only
- Follow all warnings and instructions marked on the device
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result
- Do not use the device near water
- Do not place the device near, or over, radiators or heat registers
- The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided
- Never spill liquid of any kind on the device
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company
- The device is designed for IT power distribution systems with 230V phase-to-phase voltage
- To prevent damage to your installation, it is important that all devices are properly grounded
- The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over
- If an extension cord is used with this device, make sure that the total Ampere ratings of all products used on this cord does not exceed the extension cord Ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 Amperes.
- To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or un-interruptible power supply (UPS)
- Position system cables and power cables carefully; Be sure that nothing rests on any cable
- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock
- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair
 - The power cord or plug has become damaged or frayed
 - Liquid has been spilled into the device
 - The device has been exposed to rain or water
 - The device has been dropped, or the cabinet has been damaged

- o The device exhibits a distinct change in performance, indicating a need for service
 - o The device does not operate normally when the operating instructions are followed
- Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair
 - Do not connect the RJ-11 connector marked "UPGRADE" to a public telecommunication network

Conventions

This manual uses the following conventions

Monospaced	Indicates text that you should key in
[]	Indicates keys you should press. For example, [Enter] means to press the Enter key.
1.	Numbered lists represent procedures with sequential steps
■	Bullet lists provide information, but do not involve sequential steps
→	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the <i>Start</i> menu, then select <i>Run</i>
	Indicates critical information

Introduction

Maximize your high-end dual HD workstations by connecting them to the GCS1942H/GCS1944H 2/4-Port 4K Dual View KVMP Switch with HDMI Connection, USB 3.0 and Audio. Experience Cinema 4K resolutions along with rich bass and 7.1 surround sound while switching between 2/4 computers and sharing two USB 3.0 peripherals with the push of a button.

Join two 4K HDMI-enabled monitors to your premium desktop or laptop to experience superior screen, image, and video quality. GCS1942H/GCS1944H deliver a 4K resolution standard of 4096 x 2160 at a frame rate of 60Hz.

Designed for professional film and video production industries, GCS1942H/GCS1944H support environments requiring cinematic graphics resolution. Superior quality is also ideal for applications in motion graphic design, animation, engineering, architecture, and media design.

Switch and access HDMI-enabled computers from the push-button front panel or hotkey combination on your keyboard. Utilize the latest in mouse port-switching functionality to change ports by simply clicking the wheel button on your 3-button USB mouse.

Tackle large projects and double your desktop viewing space by adding a second GCS1942H/GCS1944H. Expand your workstations to accommodate up to four Cinema 4K HDMI-enabled monitors.

Additional smart connectivity features turn your workstation into a convenient, easy-to-use powerhouse. The Power on Detection ensures automatic connection to the next powered-on computer. The built-in USB 3.0 ports provide connectivity speeds up to 5Gbps and compatibility with legacy USB 2.0 and 1.1 devices.

Package Contents

GCS1942H

- 1 x 2-Port 4K Dual View HDMI KVMP Switch
- 4 x HDMI Cables
- 2 x USB 3.0 Cables
- 2 x Audio Cable Set
- 1 x Power Adapter
- 1 x Remote Port Selector
- 1 x User Manual

GCS1944H

- 1 x 4-Port 4K Dual View HDMI KVMP Switch
- 8 x HDMI Cables
- 4 x USB 3.0 Cables
- 4 x Audio Cable Set
- 1 x Power Adapter
- 1 x Remote Port Selector
- 1 x User Manual

Note

1. We recommend using the included HDMI cables for 4K resolution.
2. Features may have been added to the GCS1942H/GCS1944H since this manual was printed. Please visit www.IOGEAR.com to download the most up-to-date version of the manual

Features

- 2 (GCS1942H) or 4 (GCS1944H)-Port 4K Dual View KVMP Switch with HDMI Connections, USB 3.0 hub and Audio
- One USB console controls two (GCS1942H) or four (GCS1944H) computers and two USB 3.0 peripherals
- Quad 4K Display by connecting with another GCS1942H/GCS1944H
- Computer selection via front panel pushbuttons, hotkeys, mouse¹, or RS-232 command²
- Independent switching of KVM, USB, and Audio focus
- Cinema 4K resolution up to 4096x2160 @60Hz
- 2-Port USB 3.0 Hub with SuperSpeed 5Gbps transfer rate
- HDMI 2.0 compliant and HDCP 2.2 compliant
- Supports HD audio through HDMI channel³
- Power On Detection – if a computer is powered OFF, GCS1942H/1944H automatically switches to the next powered ON computer
- Hot pluggable – add or remove computers without turning GCS1942H/1944H power OFF
- Mouse emulation or bypass feature supports most mouse drivers and multifunction mice
- Multi-platform support
- Multilingual keyboard mapping supports English, French, and German keyboards
- Mac[®] keyboard support and emulation⁴
- Auto Scan Mode feature to monitor all computers
- Firmware upgradeable

Note:

1. Mouse port switching supported by mouse emulation mode using a USB 3-button mouse wheel
2. Slide the DCC switch to the s (Client) position to allow the GCS1942H/GCS1944H to receive RS-232 commands via a DB9 to RJ-45 cable. Please refer to the GCS1942H/ GCS1944H RS-232 Commands. DB9 to RJ-45 cable is not included.
3. HD audio through HDMI cannot be switched independently
4. PC keyboard combinations emulate Mac[®] keyboards.

Requirements

Console

- 2 x HDMI monitors
- Standard 2 or 3-button wired USB mouse
- Standard 104-key wired USB keyboard
- Microphones and speakers (optional)

Computers

- 2 x HDMI ports
- Type-A USB port
- Audio ports (optional)

Cables

We recommend using the included IOGEAR HDMI KVM cable sets, designed specifically to work with the GCS1942H/1944H

Note:

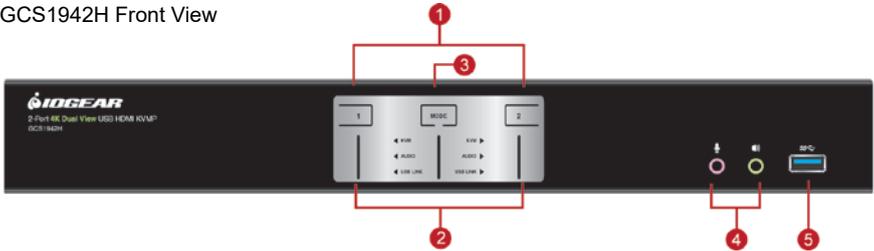
The quality of the display is affected by the quality and length of the cables.

Operating Systems

OS		Version
Windows		2000 / XP / Vista / 7 / 8 / 8.1 / 10
Linux	RedHat	6.0 and higher
	SuSE	8.2 and higher
	Mandriva (Mandrake)	9.0 and higher
Novell	Netware	5.0 and higher
Mac		OS 9 and higher
Dos		6.2 and higher

Overview

GCS1942H Front View



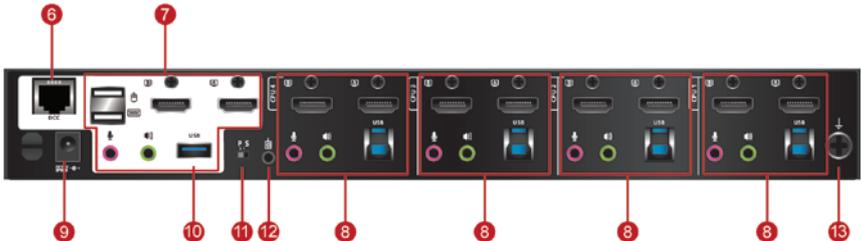
GCS1942H Back View



GCS1944H Front View



GCS1944H Back View



No.	Component	Description
1	Port Selection Pushbuttons	<p>For manual port selection (see Manual Switching)</p> <ul style="list-style-type: none"> Press a port selection pushbutton for longer than two seconds to only bring the KVM focus to the computer connected to its corresponding port Press a port selection pushbutton twice to bring the audio focus to the computer connected to its corresponding port Press a port selection pushbutton for less than two second to bring the KVM, USB and Audio focus to the computer connected to its corresponding port On GCS1942H, press pushbutton 1 and 2 simultaneously for two seconds to start Auto Scan Mode On GCS1944H, press switches 3 and 4 simultaneously to reset USB keyboard/mouse connection
2	Port LEDs	<p>The Port LEDs are built into the Port Selection Pushbuttons. The upper LEDs are KVM Port LEDs, the lower LEDs are the USB LEDs:</p> <ul style="list-style-type: none"> Selected LED lights BRIGHT FULL LIT GREEN to indicate that the computer attached to the corresponding port is the one that has the KVM FOCUS (Selected) Online LED lights DIM GREEN to indicate that the USB and Audio attached to the corresponding port is connected but not in focus Online LED lights HALF LIT GREEN to indicate that the video attached to the corresponding port is connected but not in focus LED flashes to indicate that the computer attached to its corresponding port is being accessed under Auto Scan Mode
3	Mode Selection Pushbutton	<ul style="list-style-type: none"> Press and release Mode Selection pushbutton to cycle through the four focus mode. Please see Mode Selection Pushbutton for details Press and hold Mode Selection Pushbutton before powering on and to enter Firmware Upgrade Mode
4	Audio Ports	<p>The cables from the main microphone and speakers are to be connected into these audio ports. Microphone and speakers connected into these audio ports have priority over those connected in the rear side panel of the GCS1942H/1944H</p>
5	USB 3.0 Hub	<p>USB peripherals (printers, scanners, etc.) can be connected into this port. The built-in USB 3.0 ports feature 5 Gbps data transfer rates for compatible USB peripherals</p>
6	DCC Port (Daisy Chain Control)	<p>This RJ-45 port is used to connect two units together when setting up DCC mode for Quad-Display mode See Quad-Display (DCC Mode) for instructions</p>
7	Console Ports	<p>The cables from the DisplayPort monitor, USB keyboard, USB mouse, speakers, and microphone are connected into these ports Each connector is marked with an appropriate icon to indicate its use</p>
8	KVM Ports	<p>The KVM cables from the computers are connected into these ports. Each KVM port section is comprised of a microphone jack, speaker jack, USB type B socket and a HDMI connector</p>
9	Power Jack	<p>The power adapter cable is connected into this jack</p>
10	USB 3.0 Hub	<p>USB peripherals (printers, scanners, etc.) can be connected into this port. The built-in USB 3.0 ports feature 5 Gbps data transfer rates for compatible USB peripherals.</p>
11	DCC Switch	<p>This switch is used to specify the Host (p) and Client (s) when setting up two units in Quad-Display DCC mode See Quad-Display (DCC Mode) for instructions</p>
12	Remote Port Selector Jack	<p>Please connect the included remote port cable here</p>
13	Grounding Terminal	<p>Attach grounding wire (not included) to this terminal to ground the KVM</p>

Mode Selection Pushbutton

Button	LED Indication	Follow up Actions
Press one time	KVM, Audio, USB lights up	Press any of the Port Selection Pushbutton to bring all focus to the selected port
Press two time	KVM lights up	Press any of the Port Selection Pushbutton to bring KVM focus to the selected port
Press three time	Audio lights up	Press any of the Port Selection Pushbutton to bring Audio focus to the selected port
Press four time	USB lights up	Press any of the Port Selection Pushbutton to bring USB focus to the selected port

Buzzer Indication

Sound	Description
1 beep	<ul style="list-style-type: none">• Changing Port• Activating Auto Scan Mode• Pausing / Resuming Auto Scan
1 long beep	<ul style="list-style-type: none">• Powering GCS1942H/GCS1944H on• Resetting GCS1942H/GCS1944H
2 beeps	<ul style="list-style-type: none">• Interrupting Auto Scan• Entering keyboard emulation off mode• Finishing USB synchronization

Please see Buzzer Control to enable/disable buzzer sound by hotkey

Hardware Setup

Hardware Installation

Please read **Safety Instructions** before proceeding with installation

Please make sure that all devices including the GCS1942H/1944H, HDMI monitor, and computers are powered **OFF**

1. Please make sure that GCS1942H/GCS1944H DCC Switch is on **p** (Host).
2. Ground the GCS1942H/GCS1944H by connecting one end of a grounding wire to the Grounding Terminal and the other end to a suitable grounding object. Proper grounding helps to prevent damage to the unit from power surges or static electricity.
3. Connect the USB keyboard and the USB mouse to the GCS1942H/1944H Console ports located on the rear side panel.
4. Connect the HDMI monitors to the GCS1942H/1944H Console ports located on the rear side panel. For 4 monitor setups, see **Quad-Display (DCC)** section.
5. Turn monitor(s) power to ON.
6. Connect the main analog microphone and speakers into the GCS1942H/1944H microphone and speaker jacks located on the front side panel (*optional*). The microphone and speakers connected into this front port have priority over those connected on the rear port.
7. Connect the secondary analog microphone and speakers into the GCS1942H/1944H Console microphone and speaker jacks located on the rear panel (*optional*).
8. Using the included cables: Connect the connector into any available HDMI "A" port in the KVM Port section of the GCS1942H/1944H. Then connect the included USB 3.0 cable, microphone and/or speaker cables into their corresponding sockets.
9. At the other end of the cable sets from step 7, connect the HDMI cable, USB 3.0 cable, and microphone/speaker cables into their respective ports on the computer.
10. Using a separate HDMI cable, connect the HDMI connector into the HDMI "B" port in the same KVM port section of the switch.
11. At the other end of the HDMI cable from step 9, connect the monitor cable into its respective port on the computer.
12. Repeat steps 7 – 10 for each dual display PC system being installed.
13. Connect the USB peripherals into the front or the rest USB peripheral ports (*optional*).
14. Connect the provided power adapter to an AC power source. Then, connect the power adapter cable into the GCS1942H/1944H power jack.
15. Turn all connected computers power to ON.

Note:

Verify that all the connectors are on the same KVM Port sockets (all in Port 1, all in Port 2, etc.) and that each socket is marked with an appropriate icon to indicate itself.

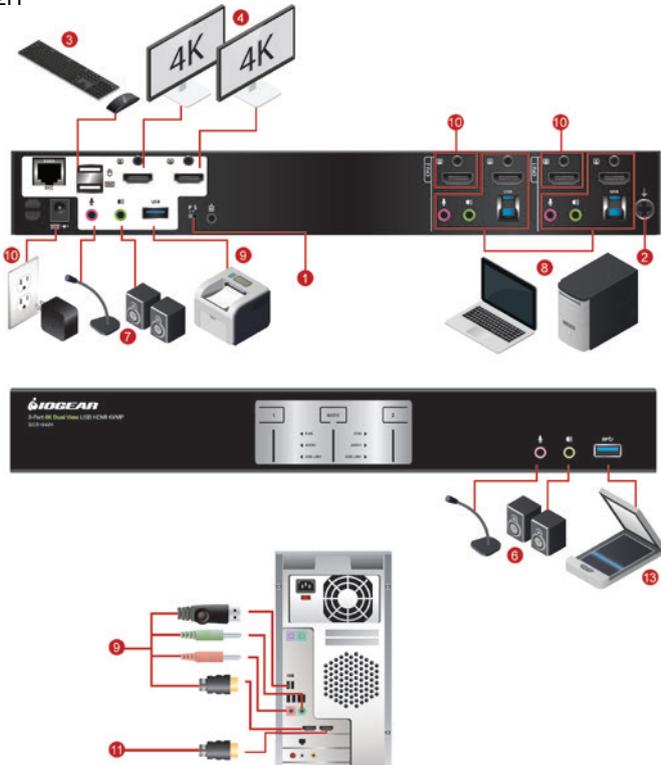
By default, the GCS1942H/1944H switches to the first computer that is powered ON.

We recommend that the total video cable length from the computer to the console monitor not to exceed 6 meters (20 feet).

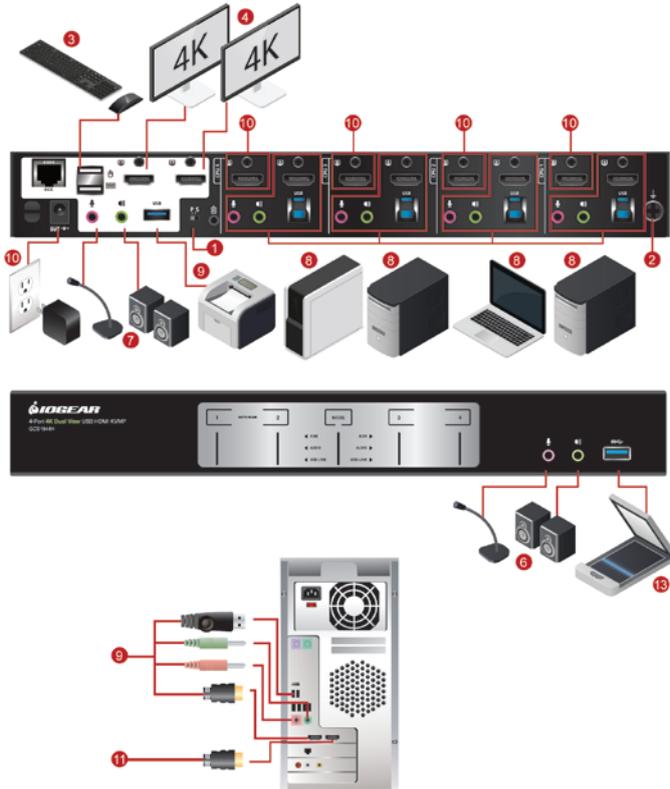
Please make sure that only high quality video cables used in order to achieve Cinema 4K (4096 x 2160 @60Hz) or 4K UHD (3840 x 2160 @60Hz).

We highly recommend that the GCS1942H/GCS1944H to be powered on at all times and make sure that all computers and devices connected to the KVMs to also be properly grounded.

GCS1942H



GCS1944H



Quad-Display (DCC Mode) Installation

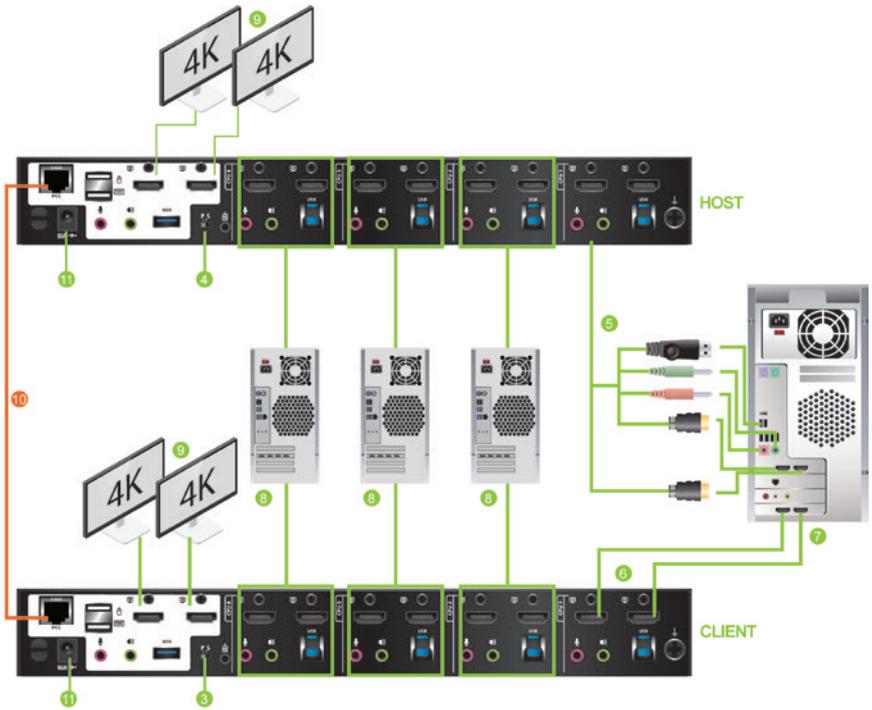
To expand your installation from a Dual-Display to a Quad-Display, please use DCC Mode to connect the two GCS1942H or two GCS1944H units together and use four 4K displays in unison

To set up DCC mode, power **OFF** all devices and refer to the installation diagram on the next page (the numbers in the diagram correspond to the steps below), and follow below steps:

1. Please make sure your computer has 4 x HDMI ports to achieve Quad-Display setup.
2. Please also make sure you have two GCS1942H or two GCS1944H ready for Quad-Display installation. For each installation, one KVMP switch will act as *Host* while the other as *Client*.
3. On the rear side by console section of the Client GCS1942H/GCS1944H, set the DCC switch to "s".
4. On the rear side by console section of the *Host* GCS1942H/GCS1944H, set the DCC switch to "p".
5. Connect all computers to the Host GCS1942H/GCS1944H as described in **Hardware Setup**.
6. On the *Client* GCS1942H/GCS1944H, using two HDMI cables, connect the HDMI connectors into the HDMI ports "A" and "B" in the same KVM port section of the switch.
7. At the other end of the two HDMI cables, connect the monitor cables into their respective ports on the computer.
8. Repeat steps 6 and 7 for all computers.
9. Connect the console monitors into the HDMI console ports located on the *Host's* and the *Client's* rear panel.
10. Use an RJ-45 cable to connect the DCC port of the Host to the DCC port of the *Client*.
11. Connect the power cord for the *Host* and *Client* to wall sockets then turn both installations on. After both units are up, turn on the computer or video source devices.

Note:

1. In DCC Mode, the Client's front panel pushbuttons are disabled, and it will take commands directly from the Host.
2. Setting the DCC switch to Client will disable all front panel pushbuttons on that switch.



Basic Operation

Basic Operation

There are five convenient methods to access the computer:

- a. Manual – involves pressing the port selection pushbuttons located on the GCS1942H/1944H front panel.
- b. Hotkey – involves entering combinations from the keyboard (see **Hotkey Operation** section for details).
- c. Mouse – involves pressing the mouse wheel button (clicking it twice) to switch between ports (see **Mouse Emulation** and **Mouse Port Switching** section for more details).
- d. Remote Port Selector Switching – involves pressing the remote port selector button to cycle through the ports. Remote port jack is located on the rear panel of the KVM.
- e. RS-232 – involves sending commands to the KVM via RS-232 connection on the rear panel of the KVM to a computer. Please see **RS-232 Commands** section for details.

For Manual Port Selection:

- Press and release a port selection pushbutton to bring the focus of the KVM focus to the computer attached to the corresponding port. USB and Audio focus do not change – they stay with the port that they are already on.
- Press a port selection pushbutton twice to bring the audio focus to the computer attached to its corresponding port. The KVM and USB stay with the port they are already on.
- Press and hold a port selection pushbutton for more than 2 seconds to bring the KVM focus, plus the USB and Audio focus to the computer attached to its corresponding port.
- Press and hold port selection pushbutton 1 and 2 for more than 2 seconds to start Auto Scan Mode (see **Auto Scan Mode** section for more details).
- Press and release either port selection pushbutton to stop Auto Scan Mode. The KVM focus goes to the computer attached to the corresponding port of the switch you pressed.

Alternative Manual Port Selection Settings

When Hotkey Setting Mode has been activated, pressing [**S**] will invoke the alternative front panel pushbutton manual port selection functions as follows:

- Press a port selection pushbutton once to bring the KVM, audio and USB focus to the computer attached to its corresponding port
- Press a port selection pushbutton twice to bring the audio focus to the computer attached to its corresponding port.
- Press and hold a port selection pushbutton for more than 2 seconds to bring only the KVM, Audio and USB focus to the computer attached to its corresponding port.
- Press and hold port selection pushbuttons 1 and 2 for more than 2 seconds to start Auto Scan Mode (see **Auto Scan Mode** for details).

Hot Plugging

The GCS1942H/1944H support USB hot plugging – components can be removed and added back into the installation by unplugging their cables from the USB hub ports, without the need to shut the unit down.

Powering OFF and Restarting

If it becomes necessary to Power OFF the GCS1942H/1944H, before switching it back ON, you **must follow** below steps:

1. Shut down or Power OFF all computers that are attached to the GCS1942H/1944H.
2. Unplug the GCS1942H/1944H power adapter cable.
3. Wait for 10 (ten) seconds, then plug the GCS1942H/1944H power adapter cable back into the unit.
4. After the GCS1942H/1944H turns ON, power ON all the attached computers.

Port ID Numbering

Each KVM port section on the GCS1942H/1944H is assigned a port number

1 or 2 for the GCS1942H

1, 2, 3, or 4 for the GCS1944H

The port numbers are marked on the rear panel of the GCS1942H/1944H.

The Port ID of a computer is derived from the KVM port number it is connected to. For example, a computer connected to KVM port 2 has a Port ID of 2.

The Port ID is used to specify which computer gets the KVM, USB peripheral, and audio focus with the Hotkey port selection method (see **Hotkey Operation** for details).

Hotkey Operation

IOGEAR's GCS1942H/1944H provides an extensive, easy-to-use, hotkey function for convenience in controlling and configuring KVM installation from the keyboard. Hotkeys provide asynchronous (independent) switching of the KVM, USB hub, and audio focus. Therefore, users can give one computer the KVM focus, another the USB hub focus, while a third has the audio focus.

Port Switching

All port switching begins by clicking [**Scroll Lock**] twice. The tables below describe the actions that each combination performs.

Note:

If using the [Scroll Lock] key conflicts with other programs running on the computer, the [Ctrl] key can be used, instead. See **Alternate Port Switching Key** for details.

Cycling Through the Ports

Hotkey	Function
[Scroll Lock][Scroll Lock][Enter]	Brings the KVM, USB hub, and Audio focus to the next higher port (1 to 2; 2 to 3; 3 to 4; 4 to 1). <u>Note:</u> The KVM, USB hub, and Audio focus all go to this port even if they were on different ports to begin with.
[Scroll Lock][Scroll Lock][K][Enter]	Brings only the KVM to the next higher port. The USB and audio focus remain where they are.
[Scroll Lock][Scroll Lock][U][Enter]	Brings only the USB to the next higher port* The KVM and audio focus remain where they are.
[Scroll Lock][Scroll Lock][S][Enter]	Brings only the Audio to the next higher port The KVM and USB hub remain where they are.

Going Directly to a Port

Hotkey	Function
[Scroll Lock][Scroll Lock][n] [Enter]	<p>Brings the KVM, USB hub, and Audio focus to computer attached to [n] port.</p> <p>[n] stands for the computer's Port ID number. Replace [n] with the appropriate Port ID when entering hotkey combinations.</p> <p>Note: The KVM, USB hub, and Audio focus all go to this port even if they were on different ports to begin with.</p>
[Scroll Lock][Scroll Lock][n][K] [Enter]	<p>Brings only the KVM to the computer on [n] port The USB hub and audio focus remain where they are.</p>
[Scroll Lock][Scroll Lock][n][U] [Enter]	<p>Brings only the USB hub focus to the computer on [n] port. The KVM and audio focus remain where they are.</p>
[Scroll Lock][Scroll Lock][n][S] [Enter]	<p>Brings only the Audio to the computer on [n] port The KVM and USB hub focus remain where they are.</p>
[Scroll Lock][Scroll Lock][n][K] [U][Enter]	<p>Brings the KVM and the USB hub focus to the computer on [n] port. The audio focus remain where it is.</p>
[Scroll Lock][Scroll Lock][n][K] [S][Enter]	<p>Brings the KVM and Audio focus to the computer on [n] port. The USB hub focus remain where it is.</p>
[Scroll Lock][Scroll Lock][n][U] [S][Enter]	<p>Brings the USB hub and Audio focus to the computer on [n] port. The KVM focus remain where it is.</p>

Auto Scan Mode

GCS1942H/1944H's Auto Scan feature allows you to monitor computer activities without switching from port to port manually. This feature automatically cycles the KVM focus through the computer ports at regular intervals. See table below for details

When Auto Scan is in effect, only Auto Scan Mode compliant keystrokes and mouse clicks work. Ordinary keyboard and mouse functions are suspended. Click **[Esc]** or **Space Bar** to exit **Auto Scan Mode** to regain normal control of the console.

Although video focus switches from port to port, keyboard, mouse and USB focus do not switch. They remain on the port when **Auto Scan** began.

Hotkey	Function
[Scroll Lock][Scroll Lock][A][Enter]	Invokes Auto Scan The KVM focus cycles from port to port at 5 seconds (default) intervals.
[Scroll Lock][Scroll Lock][A][n][Enter]	The KVM focus cycles from port to port at [n] second intervals.

Note:

1. The [n] stands for the number of seconds that the GCS1942H/1944H should dwell on a port before moving on to the next port. Replace [n] with a number between 1 and 99 when entering this hotkey combination.
2. While **Auto Scan Mode** is in effect, ordinary keyboard and mouse functions are suspended – only **Auto Scan Mode** compliant keystrokes and mouse clicks can be input. You must exit **Auto Scan Mode** in order to regain normal control of the console.
3. Although the video focus switches from port to port, the keyboard, mouse, and USB focus do not switch. They stay at the port they were on when Auto Scanning started.
4. To exit **Auto Scan Mode**, press **[Esc]** or **Spacebar**.

Advance Configuration

Hotkey Setting Mode

Hotkey Setting Mode is used to set up your GCS1942H/1944H switch configuration. All operations begin with invoking Hotkey Setting Mode (HSM).

To invoke HSM (Default)

1. Press and hold down **[Num Lock]** (use **[Clear]** on Mac)
2. Press and release **[-]** minus key
3. Release **[Num Lock]** key (use **[Clear]** on Mac)
4. To exit HSM manually, press **[Esc]** or **Spacebar**

Note:

The **[-]** minus key must be released within one half second, otherwise Hotkey invocation is cancelled.

When HSM is active, **[Caps Lock]** and **[Scroll Lock]** LEDs will flash in succession to indicate that HSM is in effect. They will stop flashing and revert to normal status when you exit HSM.

Only Hotkey compliant keystrokes and mouse clicks (described on **Hotkey Settings Mode Summary Table**) function. Ordinary keyboard and mouse functions are suspended while on HSM.

At the conclusion of some hotkey operations, you can automatically exit hotkey mode. With some operations, you must exit manually by pressing **[Esc]** or **Spacebar**.

Alternate HSM Invocation Keys

In some instances, the default hotkey settings conflict with programs running on your computer and in some instances the default hotkeys either do not exist on your keyboard (Mac keyboards do not have **[Scroll Lock]**), or are inconvenient to use, Hotkey Setting Mode allows you to select alternate configurations for the KVM's hotkeys. An alternate set of HSM invocation keys is provided in case the default set conflicts with programs running on the computers.

On Alternate HSM, the HSM invocation keys become the **[Ctrl]** key (instead of **Num Lock**) and **[F12]** (instead of **[-]** minus key)

To switch to the Alternate HSM invocation set:

1. Invoke Default HSM above
2. Press and release **[H]**

Note:

This procedure is a toggle between the two methods. To revert back to the original HSM invocation keys, invoke HSM, then press and release **[H]** key again.

Alternate Port Switching Keys

The port switching activation keys can be changed from clicking **[Scroll Lock]** key twice (**[Scroll Lock][Scroll Lock]**) to clicking **[Ctrl]** key twice (**[Ctrl][Ctrl]**).

To change the port switching activation keys:

1. Invoke HSM
2. Press and release **[T]** key

Note:

This procedure is a toggle between the two methods. To revert back to the default **[Scroll Lock][Scroll Lock]** method, invoke HSM, then press and release **[T]** key again.

List Switch Settings

To see a listing of the current switch settings:

1. Open a text editor or word processor and place the cursor in the page window
2. Invoke HSM
3. Press and release **[F4]** to display the settings

USB Keyboard and Mouse Reset

To reset USB keyboard and mouse when focus is lost:

1. Invoke HSM
2. Press and release **[F5]**

Keyboard Language

To change the keyboard language:

1. Invoke HSM
2. Press **[F6] [nn] [Enter]**

Note: **[nn]** is a two-digit number that represents the keyboard language code

US English: **33**

French: **08**

German: **09**

Buzzer Control

The Beeper can be hotkey toggled ON and OFF. To toggle the Beeper:

1. Invoke HSM
2. Press and release **[B]**

The Beeper toggles ON or OFF

Port Switching Keys

To disable the Port Switching Keys (**[Scroll Lock][Scroll Lock]**) or (**[Ctrl][Ctrl]**):

1. Invoke HSM
2. Press **[X][Enter]**

Note: This procedure is a toggle. To enable the Port Switching keys, repeat Step 1 and 2. When disabled, port switching keys [Scroll Lock][Scroll Lock] and [Ctrl][Ctrl] will not work.

Firmware Upgrade Mode

To set the GCS1942H/1944H to Firmware Upgrade Mode:

1. Invoke HSM
2. Key in **[u][p][g][r][a][d][e]**
3. Press **[Enter]**
The front panel LEDs will flash to indicate the Upgrade has started

Note: To exit Firmware Upgrade Mode, you must power **OFF** the GCS1942H/1944H

Restore Default Settings

To reset the GCS1942H/1944H to its default hotkey settings:

1. Invoke HSM
2. Press **[R][Enter]**

All hotkey settings return to the factory default settings

Alternative Manual Port Selection

To toggle between the default and the alternative front panel pushbutton manual port selection settings:

1. Invoke HSM
2. Press **[S]**

This procedure is a toggle. Repeat to revert to the original setting. See **Alternative Manual Port Selection** for more information

Power on Detection

With Power on Detection, if the focus computer is powered OFF, the GCS1942H/1944H will automatically switch to the next powered ON computer. Power on Detection can be enabled or disabled. The default setting is enabled. To disable Power on Detection:

1. Invoke HSM
2. Press and release **[E]**

This procedure is a toggle. Repeat to revert to the original setting

N-Key Rollover Keyboard Supporting Function

To enable/disable N-Key rollover keyboard function:

1. Invoke HSM
2. Press **[K][Enter]**

This procedure is a toggle. Repeat to revert to the original setting

Mouse and Keyboard Emulation

Mouse Emulation

To toggle between mouse emulation enabled and disabled:

1. Invoke HSM
2. Press **[M]**
3. This procedure is a toggle. Repeat to revert to the original setting.

Mouse Port Switching

Mouse Port Switching allows you to use the mouse wheel button (clicking it twice) to switch between ports. Mouse Emulation (above) must be enabled in order for Mouse Port Switching to work. To toggle between mouse port switching enabled and disabled:

1. Invoke HSM
 2. Press **[W]**
- This procedure is a toggle. Repeat Step 1 and 2 to disable Mouse Port Switching

Note: This feature is only supported by 3-key USB scroll wheel mice. The default setting is OFF. This feature is only supported when mouse emulation is also enabled.

Keyboard Emulation

Console keyboard port emulation/bypass feature supports most gaming/multimedia keyboards. The default setting is enabled. To disable:

1. Invoke HSM
 2. Press **[N]**
- This procedure is a toggle. Repeat Step 1 and 2 to enable Keyboard Emulation

Note: When keyboard emulation is disabled, the **[M]**, **[W]**, **[F2]**, **[F3]**, **[F4]**, **[F5]**, **[F6]**, and **[F10]** are also disabled

Keyboard Operating Platform

IOGEAR's GCS1942H/1944H default port configuration is for PC compatible keyboard operating platform. If the console uses a PC compatible keyboard and a Mac or Sun computer is attached to GCS1942H/1944H, the port's Keyboard Operating Platform configuration can be changed so that the PC compatible keyboard emulates Mac keyboard, by

1. Bring the KVM focus to the port you want to set
2. Invoke HSM

Key	Function
[F1]	To set the keyboard/mouse in SPC mode so it works under special operating system as a standard (104 key) keyboard/mouse.
[F2]	Enables Mac keyboard emulation, see Mac Keyboard Emulation .
[F10]	Disables keyboard emulation. Key presses are passed straight through. You're your console uses a Mac keyboard to access a Mac attached to a port, for example. Automatically detects and sets the keyboard operating platform.

3. Press and release the appropriate Function keys listed on table below
4. You will automatically exit HSM once this procedure is completed

Hotkey Settings Mode Summary Table

Key	Function
[B]	Enables/Disables the beeper/buzzer
[E]	Enables/Disables Power ON Detection feature
[H]	Toggles between the default combination ([Num Lock][-]) and alternate combination ([Ctrl][F12])
[M]	Enables/Disables mouse emulation
[N]	Enables/Disables keyboard emulation
[R][Enter]	Resets the hotkey settings to their default status*
[S]	Toggles between the default and alternate manual port selection pushbutton settings
[T]	Toggles between the default combination ([Scroll Lock][Scroll Lock]) and alternate combination ([Ctrl][Ctrl])
[u][p][g][r][a][d][e]	Invokes Firmware Upgrade Mode*
[W]	Enables/Disables mouse port-switching
[X][Enter]	Enables/Disables the port switching keys*
[Wheel][Wheel]	When the mouse switching function is activated, double click the mouse wheel to switch to the next port
[F1]	Allows the keyboard/mouse to work under special operating systems as a standard (104 key) keyboard/mouse
[F2]	Enables Mac keyboard emulation
[F3]	Enables Sun keyboard emulation
[F4]	Lists current switch settings via Paste function of a text editor
[F5]	Performs a reset on all USB devices
[F6][nn][Enter]	Sets the keyboard language Note: nn is a two-digit number that represents one of the following keyboard language code: US English:33 French:08 German:09
[F10]	Automatically detects and sets the keyboard operating platform
[Esc] or [Spacebar]	Quits and exits the setting mode

*Hotkey cannot be set as a front panel pushbutton combo key

Mac Keyboard Emulation

The PC compatible (101/104 key) keyboard can emulate the functions of Mac keyboard. The emulation mapping are listed in table below

PC Keyboard	Mac Keyboard
[Shift]	Shift
[Ctrl]	Ctrl
	
[Ctrl][1]	
[Ctrl][2]	
[Ctrl][3]	
[Ctrl][4]	
[Alt]	Alt
[Print Screen]	F13
[Scroll Lock]	F14
	=
[Enter]	Return
[Backspace]	Delete
[Insert]	Help
[Ctrl] 	F15

Note: When using key combinations, press and release the first key [Ctrl], then press and release the activation key.

Sun Keyboard

The PC compatible (101/104 key) keyboard can emulate the functions of the Sun keyboard when the Control key [Ctrl] is used in conjunction with other keys. The corresponding functions are shown in the table below

PC Keyboard	Sun Keyboard
[Ctrl] [T]	Stop
[Ctrl] [F2]	Again
[Ctrl] [F2]	Props
[Ctrl][F4]	Undo
[Ctrl][F5]	Front
[Ctrl][F6]	Copy
[Ctrl][F7]	Open
[Ctrl][F8]	Paste
[Ctrl][F9]	Find
[Ctrl][F10]	Cut
[Ctrl] [F1]	
[Ctrl] [F2]	
[Ctrl] [F3]	
[Ctrl] [F4]	
[Ctrl] [H]	Help
	Compose
	

Note: When using key combinations, press and release the first key [Ctrl], then press and release the activation key.

Firmware Upgrade Utility

Firmware Upgrade Configuration

GCS1942H/GCS1944H Windows based Firmware Upgrade Utility (FWUpgrade.exe) provides a smooth-automated process for firmware upgrade.

The Utility comes as part of a Firmware Upgrade Package that is specific for each device. New firmware upgrade packages are posted on our IOGEAR.COM website, as new firmware revisions become available. Please check the website regularly to find latest packages and information relating to firmware revisions and upgrades.

Before Starting Firmware Upgrade

In order to better perform a firmware upgrade, using a computer that is not connected to the GCS1942H/1944H setup is recommended. To set GCS1942H/1944H to Firmware Upgrade Mode:

1. From a computer that is not part of the *KVM installation*, go to www.iogear.com/product/GCS1942H or www.iogear.com/product/GCS1944H to get a list of available Firmware Upgrade Packages.
2. Choose the Firmware Upgrade Package (usually the most recent one), and download it to a computer that *is not part of the KVM installation*.
3. If you have a DCC mode installation, remove the RJ-45 cable connected to the DCC port that connects the two units, and set both DCC switches to "p" (*Host*).
4. Disconnect the GCS1942H/1944H from the KVM installation and power the switch OFF.
5. Connect one of the USB DisplayPort KVM cable set's Type A USB connectors to a USB Type A port on the computer that is not part of your *KVM installation*.
6. At the other end of the cable set, connect the USB Type B connector to the Type B USB port in Port 1 KVM section on the GCS1942H/1944H.

Note: The USB DisplayPort KVM cable set's USB Type B connector can be connected to any USB Type KVM Port Section, but the Port Selection pushbutton in **Step 6** below **must be** Port 1

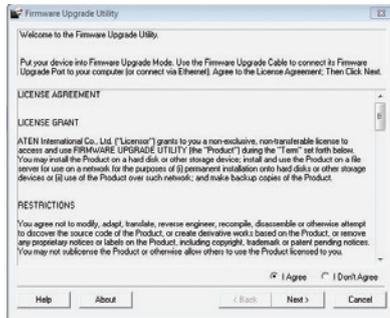
7. Press and hold **Mode** selection pushbutton.
8. While holding **Mode** selection pushbutton, connect the power adapter to the GCS1942H/1944H to enter Firmware Upgrade Mode.
9. The front panel LEDs will flash together, indicating **Firmware Upgrade Mode** is in effect.

Starting Firmware Upgrade

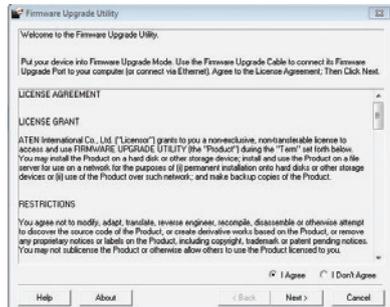
1. Run the downloaded Firmware Upgrade Package file – either by double clicking the file icon, or using a command line to enter the full path.

Name	Date modified	Type	Size
GCSI942_44_v1.0.063	8/16/2016 11:42 AM	Application	649 KB

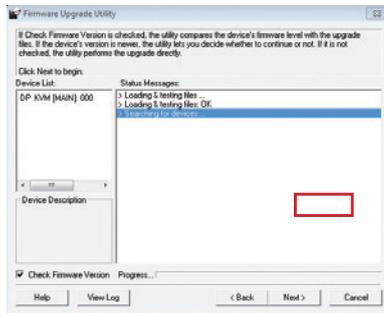
2. The Firmware Upgrade Utility Welcome screen appears.



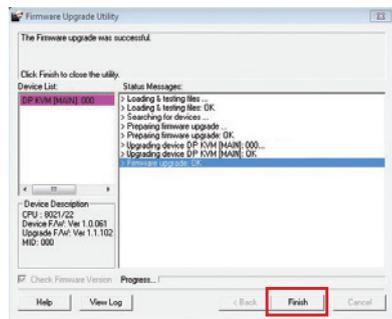
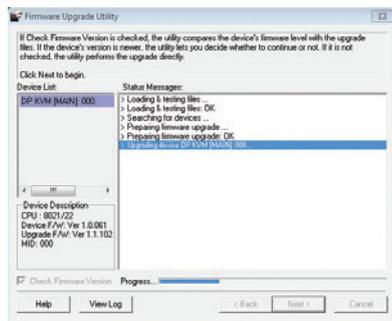
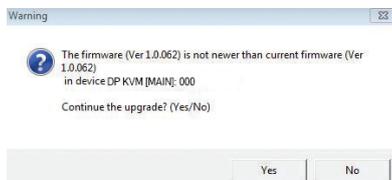
3. Read the License Agreement and click “I Agree” button and click “Next”.



4. The Firmware Upgrade Utility main screen appears. The Utility inspects your installation. All the devices capable of being upgraded by the package are listed in the Device List panel.



5. As you select a device from the list, the device's description appears in the Device Description panel. After you have made your device selection(s), Click "Next" to perform the upgrade.
6. If you enabled Check Firmware Version, the Utility compares the device's firmware level with that of the upgrade files. If the device's version is higher than the upgrade version, a dialog box below will give you the option to Continue or Cancel.
7. If you did not enable Check Firmware Version, the Utility installs the upgrade files without checking whether they are of higher level, or not.
8. As the Firmware Upgrade proceeds, a vstatus message will appear in the Status Messages panel, and the progress toward completion is shown on the Progress bar.
9. After the upgrade has completed, a screen appears to inform you that the procedure was successful. Click **Finish** to close the Firmware Upgrade Utility.
10. After a successful completion, the GCS1942H/1944H will exit the Firmware Upgrade Mode and resets itself.



Firmware Upgrade Fail

If the Upgrade Succeeded screen does not appear, this means that the upgrade failed to complete successfully. If this occurs, please follow below steps:

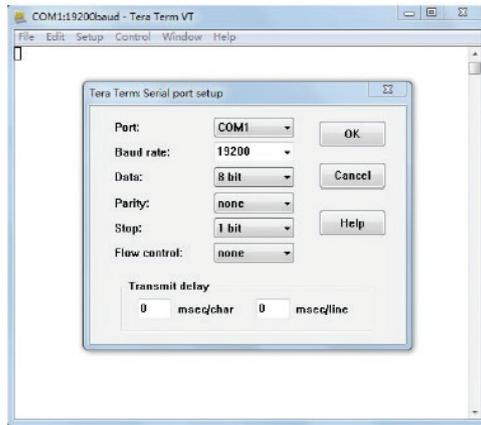
1. Power off the GCS1942H/GCS1944H by removing the power adapter.
2. Invoke Firmware Upgrade Mode by holding down the Mode Selection pushbutton on the front panel (see **Mode Selection Pushbutton**) and power on the GCS1942H/ GCS1944H. The orange LEDs flash together.
3. Repeat the upgrade procedure from the beginning (see **Before Starting Firmware Upgrade**).

RS-232 Commands

Console Login - HyperTerminal

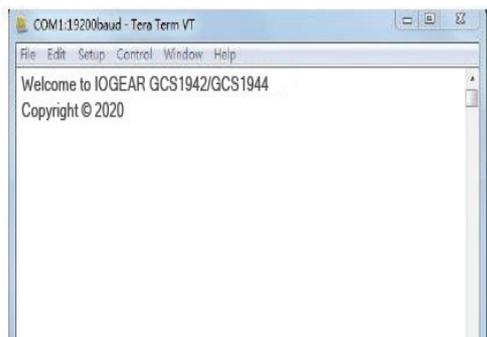
Once a physical connection from the computer to the GCS1942H/GCS1944H has been made, you can establish a HyperTerminal session using the instructions below.

1. Open the HyperTerminal application, type in "OPEN" and press enter.
2. Configure the port settings for the appropriate COM port number, then click OK.



Bits per Second: 19200, Data Bits: 8, Parity: None, Stop bits: 1, Flow Control: None.

3. When configured correctly a login prompt like the one below appears.



RS-232 Commands

After you login via HyperTerminal (see Console Login - HyperTerminal), you can use the instructions below to send RS-232 commands to control the GCS1942H/GCS1944H from a remote system.

When the RS-232 link is opened, the GCS1942H/GCS1944H will no longer accept commands from front panel buttons or most of hotkey functions (excluding mouse cursor shift and monitor layouts).

Verification

After entering a command, a verification message appears at the end of the command line, as follows:

Response Message	Description
command OK	Command or parameter is correct.
command incorrect	Command or parameter is incorrect.

1. Set baud rate

The set baud rate command allows you to set baud rate to the computers connected to the GCS1942H/GCS1944H's ports. Use the Formula - to set Parameters - to create a Command.

Formula:

Command + Input Command + [Enter]

Parameters:

Command	Command
baud	Setup device baud rate

Input Command	Description
19200	baud command reserved keyword- 19200 baud rate (Default setting)
38400	baud command reserved keyword- 38400 baud rate
9600	baud command reserved keyword- 9600 baud rate

Enter	Description
Enter	Enter and send out command

Set Baud Rate Commands

Some available formulas for the Set Baud Rate commands are as follows:

Command + Input Command + [Enter]

To set the baud rate as 38400, type the following:

baud 38400 [Enter]

Note:

1. Each command string can be separated with a space.
2. The default baud rate is 19200.
3. The ASCII code for Enter is 0x0D0A.

2. Keyboard Language Layout

The Keyboard Language Layout command allows you to change the keyboard language layout. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formula:

Command + Input Command + [Enter]

Parameters:

Command	Description
layout	Change Keyboard Language Layout

Input Command	Description
en	Change the keyboard language layout to English (Default setting)
fr	Change the keyboard language layout to French
jp	Change the keyboard language layout to Japanese
ge	Change the keyboard language layout to German

Enter	Description
Enter	Enter and send out command

Keyboard Language Layout Commands

Some available formulas for Keyboard Language Layout commands are as follows:

Command + Control + [Enter]

To change the keyboard language layout to Japanese, type the following:

layout jp [Enter]

To change the keyboard language layout to French, type the following:

layout fr [Enter]

Note:

1. Each command string can be separated with a space.
2. The default language is English.
3. The ASCII code for Enter is 0x0D0A.

3. Hotkey Settings

The Hotkey Settings command allows you to enable/disable and change the hotkey used to invoke the HSM (Hotkey Settings Mode). Use the **Formula** -to set **Parameters** - to create a **Command**.

Formulas:

Command + Input Command+ [Enter]

Parameters:

Command	Description
hotkey	Hotkey Settings Command

Input Command	Description
num	Change the HSM invoke key to: [Num Lock] + [-] (Default setting)
f12	Change the HSM invoke key to: [Ctrl] + [F12]

Enter	Description
Enter	Enter and send out command

Hotkey Settings Commands

Some available formulas for Hotkey Settings commands are as follows:

Command + Input Command + [Enter]

To change the HSM invoke key to [Num Lock] + [-], type the following:

hotkey num [Enter]

To change the HSM invoke key to [Ctrl] + [F12], type the following:

hotkey f12 [Enter]

Note:

- 1.Each command string can be separated with a space.
- 2.The default hotkey is num.
- 3.The ASCII code for Enter is 0x0D0A.

4. Hotkey Switching

The Hotkey Switching command allows you to change the hotkey switching mode. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
switch	Hotkey switching command

Input Command	Description
Scroll	Change hotkey switching mode to: [Scroll][Scroll]
ctrl	Change hotkey switching mode to: [Ctrl][Ctrl]

Enter	Description
Enter	Enter and send out command

Hotkey Switching Commands

Some available formulas for Hotkey Switching commands are as follows:

Command + Control + [Enter]

To change the hotkey switching mode to [Scroll] + [Scroll], type the following:

switch scroll [Enter]

To change the hotkey switching mode to [Ctrl] + [Ctrl], type the following:

switch ctrl [Enter]

Note:

1. Each command string can be separated with a space.
2. The default hotkey switching setting is scroll.
3. The ASCII code for Enter is 0x0D0A.

5. Port Switching

The Port Switching command allows you to change from one port to another.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
sw	Switching Command

Input Command	Description
ixx	Input Port number xx=01-04

Enter	Description
Enter	Enter and send out command

For Example: Switching to port 2 type in **swi02 [Enter]**

Note:

1. Each command string can be separated with a space.
2. The default USB reset setting is off.
3. The ASCII code for Enter is 0x0D0A.

6. USB Reset

The USB Reset command allows you to reset the USB connection. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
usbreset	USB Reset Command

Input Command	Description
on	Enable USB reset connection

Enter	Description
Enter	Enter and send out command

USB Reset Command

The available formula for the USB Reset command is as follows:

Command + Input Command + [Enter]

For example, to reset the USB connection, type the following:

usbreset on [Enter]

Note:

1. Each command string can be separated with a space.
2. The default USB reset setting is off.
3. The ASCII code for Enter is 0x0D0A.

7. Restore Default Settings

The Restore Default Settings command allows you to reset all of the GCS1942H/GCS1944H's settings back to the default. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
reset	Restore KVM Default Settings

Input Command	Description
on	Enable Restore KVM Default Settings

Enter	Description
Enter	Enter and send out command

Restore Default Settings Command

The available formula for the Restore Default Settings command is as follows:

Command + Input Command + [Enter]

For example, to restore all GCS1942H/GCS1944H settings back to the default, type the following: **reset on [Enter]**

Note:

1. Each command string can be separated with a space.
2. The default setting is off.
3. The ASCII code for Enter is 0x0D0A.

8. Firmware Upgrade

The Firmware Upgrade command allows you to enable the firmware upgrade mode. Use the **Formula** - to set **Parameters** - to create a **Command**.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
upgrade	Firmware Upgrade Command

Input Command	Description
on	Enable Firmware Upgrade Mode

Enter	Description
Enter	Enter and send out command

Firmware Upgrade Command

The available formula for the Firmware Upgrade command is as follows:

Command + Input Command + [Enter]

For example, to enable firmware upgrade mode, type the following:

upgrade [Enter]

Note:

1. Each command string can be separated with a space.
2. The default setting is off.
3. The ASCII code for Enter is 0x0D0A.

9. KVM Status

The KVM Status command allows you to display read-only information about the GCS1942H/GCS1944H's current KVM status. Use the **Formula** - to set **Parameters** – to create a **Command**.

Formulas:

Command + Input Command + [Enter]

Parameters:

Command	Description
status	Display KVM Status Command

Input Command	Description
on	Enable KVM Status

Enter	Description
Enter	Enter and send out command

KVM Status Command

The available formula for the KVM Status command is as follows:

Command + Input Command + [Enter]

For example, to display the GCS1942H/GCS1944H's KVM status, type the following:
status [Enter]

A message similar to the one below will then appear:

hotkey: [numlock]+[-] / [scrolllock],[scrolllock]

os setting: pc

keyboard emulation: enabled/disabled keyboard layout: English

mouse emulation: enabled/disabled monitor re-detection: enabled/disabled

Note:

1. Each command string can be separated with a space.
2. The default setting is off.
3. The ASCII code for Enter is 0x0D0A.

Specifications Chart

Function		CS1942H	CS1944H	
Connections	Computer	2	4	
	Console	1		
Port Selection		Pushbuttons, Hotkey, Mouse*, RS-232 Commands		
Connectors	Console Ports	Keyboard	1 x USB Type A (Black)	
		Video	2 x DisplayPort (Black)	
		Mouse	1 x USB Type A (Black)	
		Speakers	1 x 3.5 mm Mini Stereo Jack (Green; Front) 1 x 3.5 mm Mini Stereo Jack (Green; Rear)	
		Microphone	1 x 3.5 mm Mini Stereo Jack (Pink; Front) 1 x 3.5 mm Mini Stereo Jack (Pink; Rear)	
	KVM Ports	Keyboard / Mouse	2 x USB 3.0 Type B (Blue)	4 x USB 3.0 Type B (Blue)
		Video	4 x DisplayPort (Black)	8 x DisplayPort (Black)
		Speakers	2 x 3.5 mm Mini Stereo Jack (Green)	4 x 3.5 mm Mini Stereo Jack (Green)
		Microphones	2 x 3.5 mm Mini Stereo Jack (Pink)	4 X 3.5 mm Mini Stereo Jack (Pink)
	USB Hub	1 x USB 3.0 Type A (Blue; Front)		
		1 x USB 3.0 Type A (Blue; Rear)		
Serial	1 x RJ-45 Female			
Power	1 x DC Jack			
Switches	Selected	2 x Pushbutton	4 x Pushbutton	
LED	On Line / Selected	2 (Orange)	4 (Orange)	
	USB Link	2 (Green)	2 (Green)	
Emulation	Keyboard / Mouse	USB		
Video		4096 x 2160 @60Hz Cinema 4K 3840 x 2160 @60Hz (4K UHD)		
Scan Interval		1-99 second (5 second Default)		
Power Consumption		DC 12V	DC 12V	
Environment	Operating Temp.	0 - 50°C		
	Storage Temp.	-20 – 60°C		
	Humidity	0 – 80% RH, Non-c ondensing		
	Housing	Metal		

*Mouse emulation mode and mouse port switching mode must be turned on for mouse port switching with 3-button wheel USB mouse

Troubleshooting

Operation problems occur due to variety of causes. The first step in solving them is to make sure that all cables are securely attached and plugged in completely in their sockets.

In addition, updating the GCS1942H/1944H's firmware may solve problems that have been discovered and resolved since the prior version was released. If your product is not running the latest firmware version, we strongly recommend that you upgrade. See **The Firmware Upgrade Utility** for upgrade details.

Compliance Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. 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:

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

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CE Compliance

This device has been tested and found to comply with the following European Union directives: Electromagnetic Capability (2004/108/EC), Low Voltage (2006/95/EC) and R&TTED (1999/5/EC).

Limited Warranty

Warranty Information

This product carries a 3 Year Limited Warranty. For the terms and conditions of this warranty, please go to <https://www.iogear.com/support/warranty>

Register online at <https://www.iogear.com/registration>

Important Product Information

Product Model _____

Serial Number _____

Contact

WE'RE HERE TO HELP YOU! NEED ASSISTANCE SETTING UP THIS PRODUCT?

Make sure you:

1. Visit www.iogear.com for more product information
2. Visit www.iogear.com/support for live help and product support

IOGEAR

www.iogear.com

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support@iogear.com

