



## Dual Rail LCD Terminal Premium

### English User's Manual



No. 21700 - 21707

 For Commercial Use Only  
Tested to comply  
with FCC Standards

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## 1. Introduction

Thank you for your purchasing the Dual Rail LCD Console. We recommend that you read this manual thoroughly and retain it for future reference.

### 1.1 Overview

The Dual Rail LCD Console is an ideal modular solution featuring an integrated 17-inch TFT LCD display and high-quality compact industrial keyboard/touchpad in a 1U, rack-mountable format. The console offers a user-friendly and most reliable operating environment for server administrators.

Installation and setup can easily be completed by a single person. Simply use the supplied Combo KVM cable to link the USB or PS/2 console ports of your KVM switch or server. Or simply use the optional modular LINDY CAT-16 KVM Switch that can be installed directly on the back of the console drawer providing connectivity for 16 directly connected computers or servers.

There are two additional front mounted USB ports for use with an additional USB keyboard and/or mouse. They can be used in addition to the built-in keyboard and touchpad or in case the user prefers to use a mouse instead of the touchpad.

An On-Screen Display (OSD) Menu allows simple display adjustments and provides a password protected login system to prevent unwanted access to the systems connected to the console. In addition the front mounted USB ports can be used to provide another level of access protection by using USB Security Access Dongles.

The console also provides a modular design for the simple replacement of the LCD monitor and keyboard/touchpad components in the event that a problem should develop. Replacement parts can be installed quickly and easily.

## 1.2 Features

The Dual Rail LCD Console Drawer features an integrated 17-inch / 44cm LCD panel module and keyboard/touchpad module within a 1U chassis. The unique modular design solution is for easy installation and maintenance. With our leading USB technology, an optional unique and patented USB security key can be purchased as an accessory to the console to allow strict access control. Only authorized users possessing the security dongle and correct password will be able to gain access. This will prevent unauthorized access to the console and the connected computers or servers.

- Integrated KVM module with 17"/44cm LCD monitor (1280x1024) & Keyboard/touchpad module within 1U chassis
- Heavy-Duty Electroplated Steel
- Supports Dual Rail for independent access to panel and keyboard
- Supports modular design for easy installation and maintenance
- Supports one extra set of USB keyboard and mouse ports
- Supports USB Key security function (Optional).
- Supports high resolution up to 1280 x 1024
- Supports KVM modules to connect servers/KVM via VGA and USB / PS/2 connections

## 1.3 Package Contents

1. Dual Rail LCD Console drawer x 1
2. Custom KVM Cables Set x 1
3. Power Cord x 1
4. Quick Installation Guides x 4 (German, English, French, Italian)
5. CD with User's Manuals x 1
6. Rack Mount Kit x 2
7. Metal stopper bar x 2

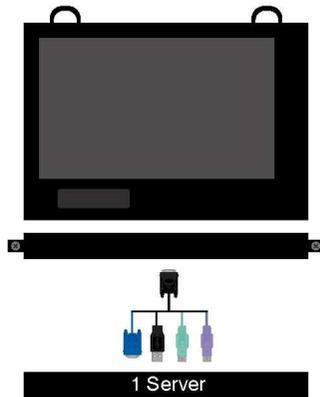
## 2. Specifications

### 2.1 General

17" LCD Display Module	17" / 43.8cm - 4CCFL LCD Panel SXGA Resolution up to 1280 x 1024 @ 75/60/50Hz Pixel pitch:0.264(H)x0.264(V) Backlight lifetime: 50,000 hrs. LCD display automatically shuts-off at display angle under 30 degrees.	
Keyboard/Touch Pad Module	Keyboard	105- key Keyboard supports Windows function keys, compatible with IBM PC/AT, PS/2 keyboard, Several Language Keyboard types available
	Touch pad	1000 points/ inch(40 points/mm) - graphics tablet mode
Control Center Module (internal)	Combo free design, compatible with PS/2 & USB Security function administrated by USB dongle using random code Mini USB female connector for firmware upgrade function Operating systems supported - Windows, Linux, Mac and Sun Microsystems	
Power Supply	Universal 100~240V AC , 50 / 60 Hz, 4A input, IEC connector	
Materials	Heavy-duty steel electroplated chassis	
Dimensions	W X D X H : 45 x 55 x 4.4 cm	
	N.W. 12.5kg/ G.W. 18kg	

### 3. Connecting Dual Rail LCD Console Drawer

#### 3.1 Configuration Diagram of Connections



As well as being able to connect the console to a single server, you may also connect the console directly to any suitable KVM switch.

The LCD console alternatively supports the direct connection of a modular KVM Switch CAT-16, directly attached to the back of the console drawer without the use of connection cables. To allow for this the modular KVM Switch is mounted to the back of the console and fixed in place with screws.

The depth of the combined drawer is increased by approximately 18cm by the KVM Switch CAT-16. Up to 16 servers can be connected to this KVM Switch directly using slim style Cat.5 connection cables. This KVM Switch can be daisy chained with up to 7 further KVM Switch CAT-32 models (No. 39632/39631) allowing you to connect a total of 240 computers or servers.

The KVM Switch CAT-16 also provides a modular slot for a KVM over IP remote access module (No.39636) to provide additional remote IP access to the connected computers or servers from your local area network, or via the Internet.

For further information on these options please refer to the description and the manual for the KVM Switch CAT-16 (No.39639) and KVM over IP Module (No.39636).

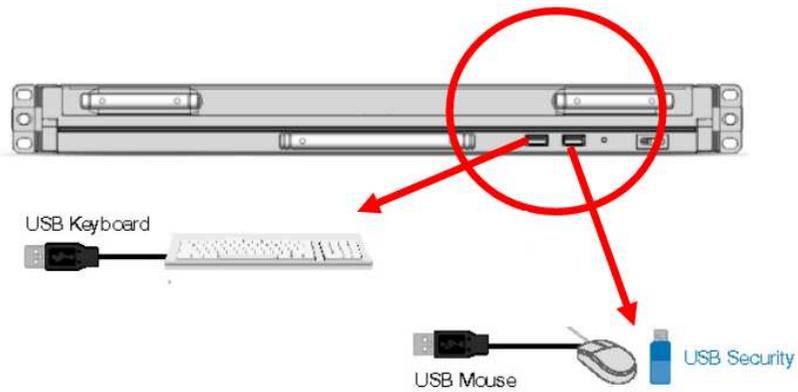
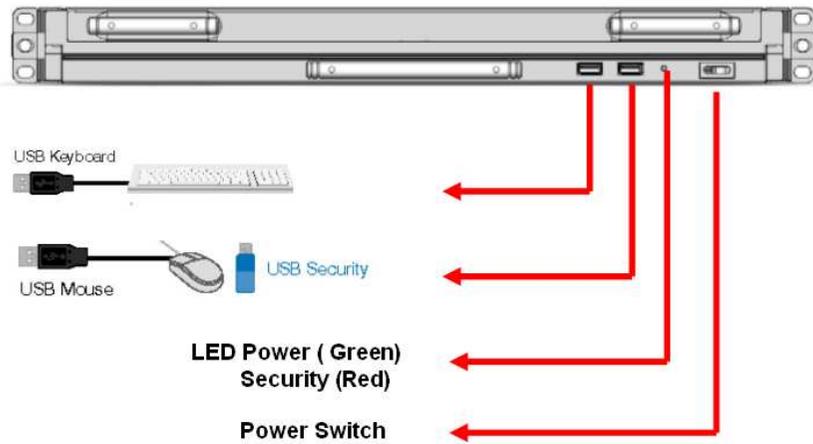
### 3.2 Components

#### 3.2.1 Front View



No.	Component	Function Description
1	LCD Handle Lock	Fix or Release the LCD panel
2	LCD Display	Panel Display
3	LCD Panel OSD Buttons	Screen adjustment and configuration
4	Keyboard Module	Keyboard Operation
5	LED Indicators (Optional )	Switching Operation for optional KVM Module
6	Slide Rail x 4	Dual Slide Rails in each side.
7	Touch Pad	Mouse Cursor Operation
8	Power Switch	Turn on / Turn off
9	Power LED	Indicates Power Status / Security Status
10	USB Ports x 2 (K/B, Mouse, Security SecuKey )	Plug-in external K/B, Mouse, and SecuKey
11	K/B module Handle Holder	Pull to slide the K/B module in or out

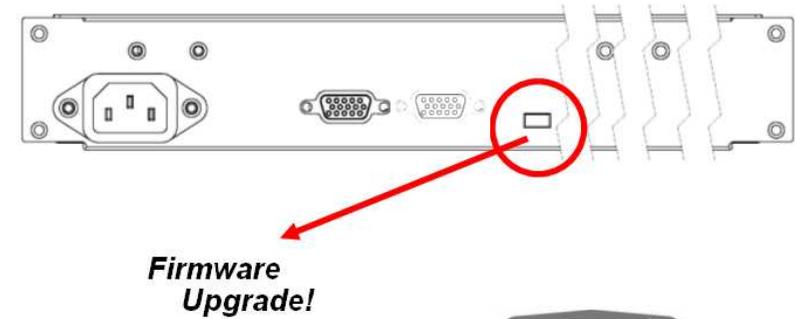
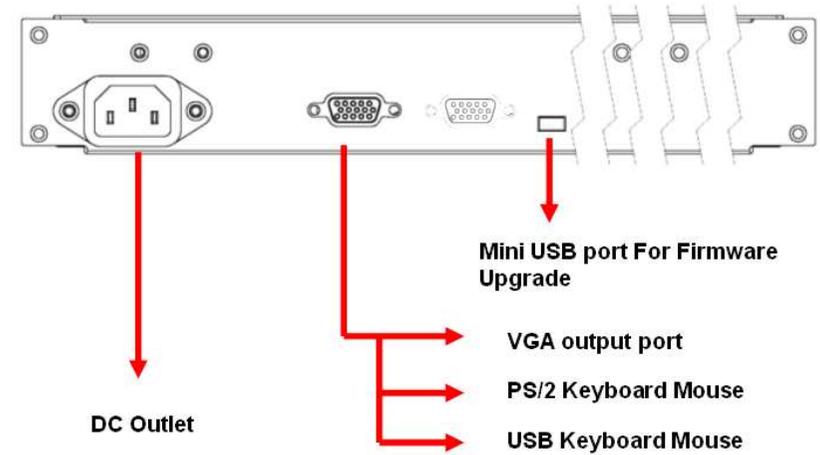
### 3.2.2 Front Console Connections



**Support Extra USB Keyboard & USB Mouse console Ports !**



### 3.2.3 Rear View



If Firmware Upgrade is necessary, please contact LINDY Technical Support Team for further assistance and information.

## 4. INSTALLATION

### Caution:

1. Before installation please check console for any damaged or missing parts. If you encounter any problems then please contact LINDY before proceeding.
2. Make sure that power to all the devices you will be connecting to have been turned off. You must also unplug the power cords off any computers that have the Keyboard Power On Function.

**First install the 19" mounting rails to the cabinet.**

### Step 1

**Install the left mounting rail to the cabinet.**



### Step 2

**Loosely fix the mounting screws, this will allow for any small adjustments that you may need to make before finally tightening the whole assembly. This will also make insertion of the long bolt easy which serves as an anchor to limit the sliding range of the sliding rails.**



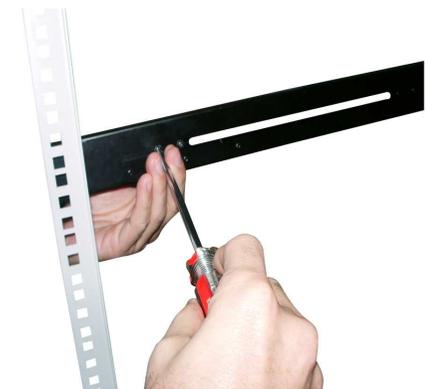
### Step 3

**Screw and tighten the rear bracket of the left rail to the cabinet.**



### Step 4

**Fit and tighten 4 screws to the outside face of the left mounting rail.**



### Step 5

Fit and tighten 4 screws to the inside face of the left mounting rail.



### Step 6

Install the right mounting rail to the cabinet.

**Note:**  
Please follow the same procedures as Step 1~5 for the installation of the right rail.



### Step 7

Please check that the rails are secured and attached to the cabinet firmly.



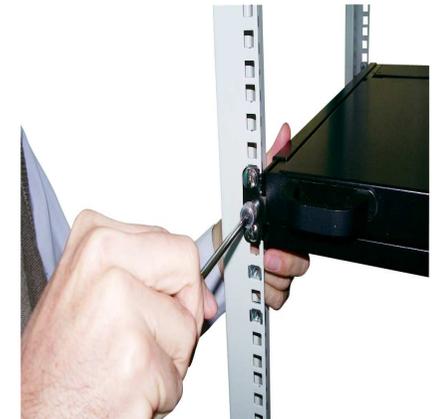
### Step 8

Slide the LCD Console Drawer into the mounting rails and push to the rear of the cabinet.



### Step 9

Install each of the 2 stopper bars (each of which is comprised of a long screw and a cage nut on the end) through the central holes on both the left and the right bracket. Take care to align the central hole so that it will allow the stopper bar to go through the central hole correctly. Then tighten all screws on the front brackets of the left and the right rails.



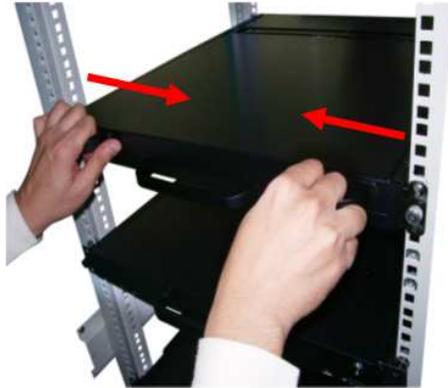
Note that the stopper bar (shown on the right) serves as an anchoring mechanism to limit the sliding range of the rails. This will prevent the console from over extending. You can also adjust the sliding range by adjusting the position of the catch nut on the end of the stopper bar.



Installation is now complete.

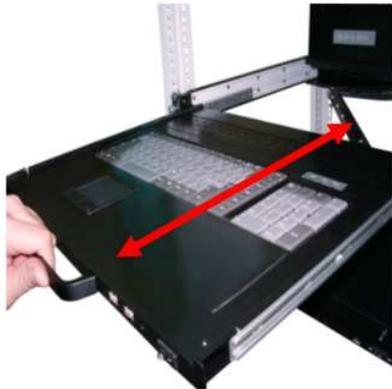
## Opening the console

If you have any other 19" devices mounted just above the console drawer you may need to pull the console drawer out of the rack by a few centimeters to raise up the LCD. To do so please unscrew the 2 thumbscrews and pull the complete drawer out.



Slide the LCD handles in the direction shown to release the drawer. Gently pull out the drawer and raise the LCD display to the desired position.

The unique dual rail design allows the keyboard drawer to be slid in and out independently while the LCD display drawer is raised up. If required the LCD display can be left upright and the keyboard replaced back into the rack.

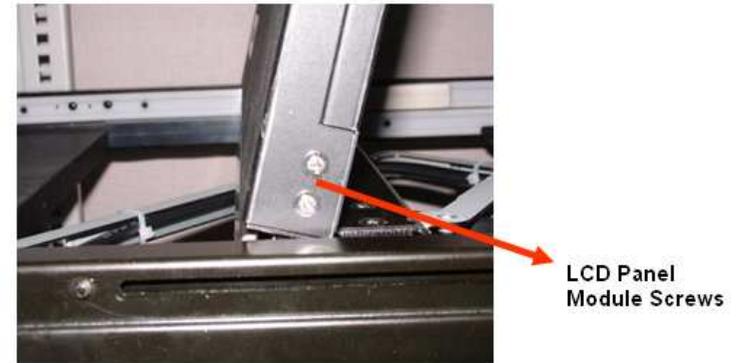


This is especially helpful when the space in front of the 19" rack is temporarily needed or when the cabinet doors shall be closed while the LCD shall remain raised up.

## 5. Modularized Components Replacement

### 5.1 LCD Panel Module replacement

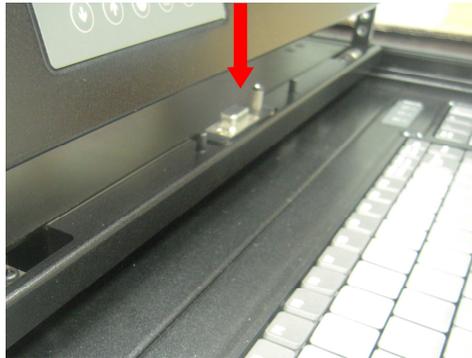
Step1. Remove the 2 screws located on each side of the LCD panel.



Step 2. Apply gentle force to lift the LCD panel module upward.



**Step 3.** When installing the new LCD panel take care to correctly align the VGA connector and the locating pins. Fix the panel in place using the 4 screws previously removed.



Instead of immediately replacing a faulty LCD with a new one you may also - temporarily - connect any standard VGA monitor to the VGA HD15 connector.

## 5.2 Keyboard Module Replacement.

**Step 1.** Remove one screw on each side of the keyboard tray. Then gently pull up the keyboard module to reveal the underside and connectors.

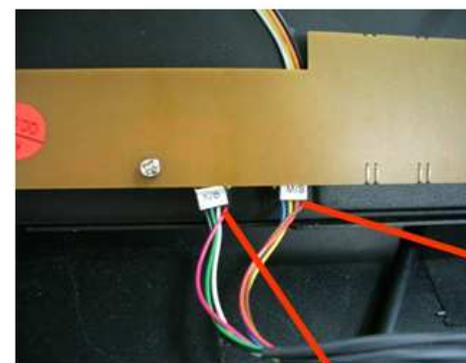


K/B Module Screw



**Step 2.**

Carefully disconnect the keyboard and touch pad connectors. Reverse this procedure when fitting the replacement keyboard assembly.



M/S PC Board Connector

K/B PC Board Connector

## 6. OPERATION

### 6.1 Hot Key Operation

#### 6.1.1 Leading Hot Key Selection

The two-steps hot key sequence is used for quick function execution.

The leading key is **<Caps Lock>** by default. However, you can change the leading hot key if you want.

By pressing **<CTRL>** twice, **<New Hot Key>**, then press **<Enter>**, you can change the leading hot key.

The available leading hot keys are **<Scroll Lock>**, **< Num Lock >** or **< Caps Lock >** for option.

- **Setup leading hot key to < Scroll Lock >**  
**< CTRL > → < CTRL > → < Scroll Lock > → < Enter >**
- **Setup leading hot key to < Num Lock>**  
**< CTRL > → < CTRL > → < Num Lock > → < Enter >**
- **Setup leading hot key to < Caps Lock >**  
**< CTRL > → < CTRL > → < Caps Lock > → < Enter >**

Note: You can also change leading hot key by pressing **<F1>** in OSD setup menu.

#### 6.1.2 Call OSD Menu

Press **< Caps Lock>** twice and **<Enter>**, then the OSD "Main Menu" will be displayed on the monitor screen. All of the parameters can be setup in OSD mode. You can also execute some security functions in OSD.

**<Caps Lock> → <Caps Lock> → <Enter>**

The OSD is available in 4 different languages: English, German, French and Italian. To change the language of the OSD please refer to section 6.2.4 Language Setup

**REMARK:** The OSD menu content is subject to ongoing improvement and wording may slightly vary from the supplied version

#### Buzzer sound Disable / Enable

Press **<Caps Lock>** twice, then **<B>** and **<Enter>**. The buzzer sound will be disabled / enabled alternately. The buzzer sound default setting is **ON**.

**<Caps Lock> → <Caps Lock> → <B> → <Enter>**

Note: You can also enable/disable buzzer sound by pressing **<F1>** in OSD setup menu.



#### 6.1.3 Console Lock

If the security mode is enabled in OSD mode, you can lock console by pressing **<Caps Lock>** twice, and then **<H>** and **<Enter>**. The console will be locked until an authorized user login.

**<Caps Lock> → <Caps Lock> → <H> → <Enter>**

To unlock console, depends on the security option, please press any key to key in User Name and Password, and/or plug in enrolled security dongle. The system will be unlocked and back to normal status.

Note: You can also execute console lock function by pressing **<F3>** in OSD main menu.

### 6.2 OSD Operation

Press **< Caps Lock>** twice and **<Enter>**, then you enter the **OSD (On Screen Display)** main menu. All of the parameters can be setup in OSD mode. You can also execute some security functions in OSD. For example, if hot key is **<Caps Lock>**

**< Caps Lock > → <Caps Lock> → <Enter>**

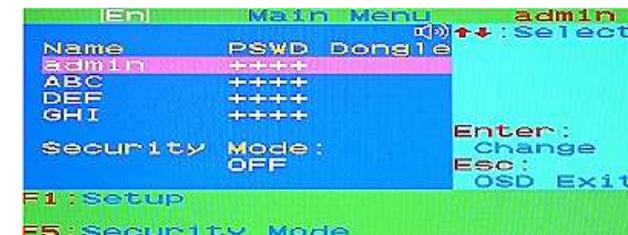


Figure 1

## 6.2.1 Change administrator settings

### Administrator's authority

- Only Administrator can change the security settings of all users.
- Administrator can lock/unlock the system.

The name of administrator is fixed as "admin" and can not be changed. To change the administrator settings, move the highlight bar to **admin**, and press **<Enter>** key. The administrator setup window will be shown on the screen.

### Password setup

Input the password twice to confirm the change.



Figure 2

### Security dongle enrollment

After password is setup, please plug in security dongle to register for administrator. **If you don't want register dongle, press <Enter> to skip.**

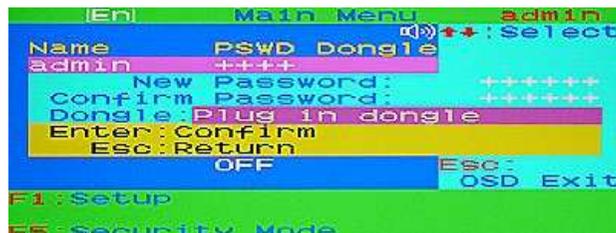


Figure 3

After the security dongle is registered successfully, a beep sound will prompt you to remove the dongle.

**REMARK:** The OSD menu content is subject to ongoing improvement and wording may slightly vary from the supplied version



Figure 4

If the registry is complete, please press **<Enter>** to save the change, or **<ESC>** to cancel.



Figure 5

If the security dongle had been registered by the other user, the dongle registry will fail due to duplication error.

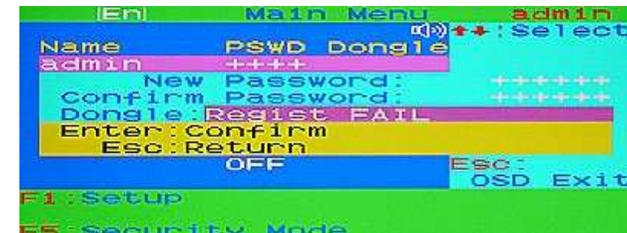


Figure 6

### Setup Cancel

During the setup, you can press **<ESC>** in any time to cancel and exit.

## 6.2.2 Change authorized user settings

### Authorized user's authority

- Authorized user only can lock/unlock the system.

**Only administrator can change the settings of authorized user.** To change the user settings, move the highlight bar to the user for editing, and press **<Enter>** key. The user setup window will be shown on the screen.

### User name and password setup (by admin only)

Input the user's name and password twice to confirm the change.

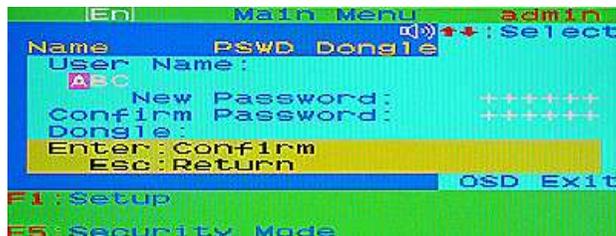


Figure 7

### Security dongle enrollment (by admin only)

After the password is setup, please plug in the security dongle to register for this user. If you don't want to register the dongle, press **<Enter>** to skip.

The dongle enrollment process is the same as administrator, please refer to section 6.2.1.

Depends on whether the security dongle be registered to user or not, the OSD main menu after modification will indicate the status.

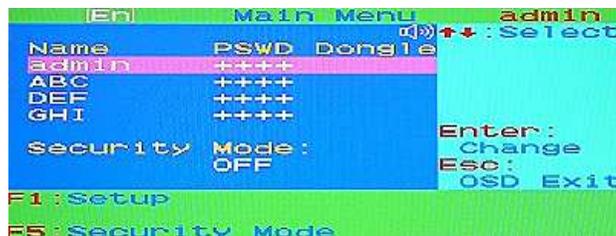


Figure 8

### Setup Cancel

During the setup, you can press **<ESC>** at any time to cancel and exit.

## 6.2.3 Parameters Setup: <F1>

Press **<F1>** in OSD main menu, the parameter setup window will be shown on screen. Please use **<Up>** or **<Down>** arrow key to select the item you want to change, and use **<Left>** or **<Right>** arrow key to change the settings. Press **<ESC>** to exit and save the setup settings.



Figure 9

## 6.2.4 OSD menu position setup

Use **<Up>** or **<Down>** arrow key to select **<Position>** item, and press **<Left>** or **<Right>** arrow key to enter position setup mode.



Figure 10

Use four arrow keys to move the OSD main menu to the desired position. Press **<ESC>** to save the changed menu position.

### Hot key setup

Use **<Up>** or **<Down>** arrow key to select **<Hotkey>** item, and press **<Left>** or **<Right>** arrow key to change the hot key. The available hot keys are **<Scroll Lock>**, **<Num Lock>**, and **<Caps Lock>**.



Figure 11



Figure 12



Figure 13

Note: You can also change leading hot key via hot key by using  
 <CTRL> → <CTRL> → <New Hotkey> → <Enter> outside the OSD mode.

### Sound setup

Use <Up> or <Down> arrow key to select <Sound> item, and press <Left> or <Right> arrow key to change the setting.

- **ON:** Buzzer sound enabled.

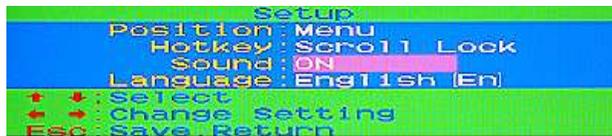


Figure 14

- **OFF:** Buzzer sound disabled.



Figure 15

Note: You can also enable/disable buzzer sound via hot key by using  
 <Caps Lock> → <Caps Lock> → <B> → <Enter> outside the OSD mode.

### Language setup

Use <Up> or <Down> arrow key to select <Language> item, and press <Left> or <Right> arrow key to change the setting. English (En) / Deutsch (De) / Français (Fr) / Italian (It), 4 languages are available.



Figure 16



Figure 17



Figure 18

### 6.2.5 Security mode setup: <F5> (by admin only)

Press <F5> to change the security mode, there are three available security modes:

#### PSWD / Dongle

User must pass **either** password **or** dongle verification to use this system.

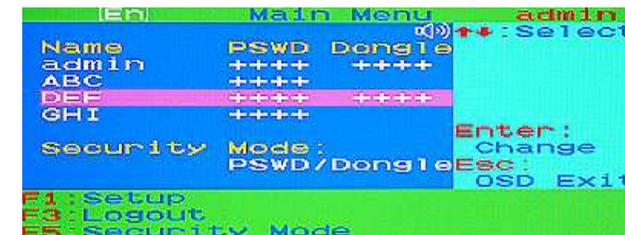


Figure 19

#### PSWD + Dongle

User must pass **both** password **and** dongle verification to use this system. If the user does not have both password and dongle registered, the user must pass the verification of what he has registered.

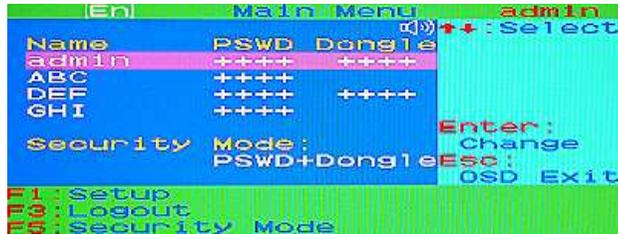


Figure 20

**OFF**

Disable security function. There is no **<F3> Logout** function either in this mode.

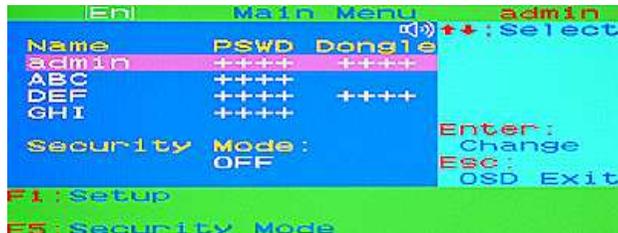


Figure 21

**Logout: <F3>**

If the security mode is enabled, you can press enter **<F3> Logout** to lock the system until an authorized user is verified successfully.



Figure 22

**Exit OSD: <ESC>**

Press **<ESC>** to exit OSD and to return to normal usage.

**REMARK:** The OSD menu content is subject to ongoing improvement and wording may slightly vary from the supplied version

**7. System Security**

**7.1 Lock the system**

There are three ways to lock the system:

- In OSD mode, press **<F3> Logout**
- Outside the OSD mode, press **<Hot Key> + <Hot Key> + [H] + <Enter>** to lock the system.
- Outside the OSD mode, plug in a registered security dongle to lock the system.

**7.2 Unlock the system**

The unlock procedure depends on the security mode. If the system is unlocked, the name of login user will be displayed on the screen.



Figure 23

**7.2.1 PSWD / Dongle**

- Password verification

Press any key in protect mode, the login window will be shown on screen, please enter user's name and password to pass the verification.



Figure 24

- Security dongle verification

Plug in the registered security dongle directly.

### 7.2.2 PSWD + Dongle

- Password verification first

Press any key in protect mode, the login window will be shown on screen, please enter user's name and password. If the first stage verification is passed, plug in the registered dongle of this user to pass the second stage verification to unlock the system.



Figure 25

- Security dongle verification first

Plug in the registered security dongle directly. If the security dongle is identified, the owner's name of this dongle will be displayed on the screen, please enter the password of this user to unlock the system.



Figure 26

### 7.3 Reset the administrator security lock

If the security mode is setup as **PSWD+DONGLE**, in case the administrator lost his security dongle or forget his password, then the system settings can not be changed since administrator can not login to the system. To solve this problem, administrator must reset administrator security lock.

To reset administrator security lock, you must contact LINDY, and you must have either administrator password or dongle ready at hand. If you lost both of them, then there is no way to reset the administrator's lock, you must return your machine to LINDY for system reset, and all data will be erased beyond recovery.

The procedure to reset administrator security lock is:

- In protect mode, press <Hot Key> + <Hot Key> + <X> + <Enter>, the unlock

security window will be shown on the screen.



Figure 27

- Please contact LINDY, and impart the “Unlock Serial” to LINDY for information. LINDY will tell you the “Unlock PSWD” according to your “Unlock Serial”. (Serial and Password change with every trial!)



Figure 28

- Input the “Unlock PSWD” from LINDY.



Figure 29

- After entering the correct “Unlock PSWD” press <Enter>
- The system will enter the OSD main menu as the administrator and set the security mode disabled. **You should now register a new password or security dongle for administrator and set security mode back.**

**REMARK:** The OSD menu content is subject to ongoing improvement and may slightly vary from the supplied version

## 8. Sun Microsystems Function Key Emulation:

There are 16 special functions on the Sun Microsystems keyboard, Combo Free KVM Switch can emulate these function keys via PS/2 and/or USB keyboard. Please refer to the table shown below for Sun Microsystems keyboard special functions operation.

To activate these emulation on the PS/2 and/or USB keyboard, you have to press the <LEFT Window> key first (this key usually is located between the <LEFT CTRL> and <LEFT ALT>). Then press the second key ( Sun Microsystems Function Key ). Please do not release <LEFT Window> when you press the second key.

Sun Microsystems Function Key	USB or PS/2 Keyboard
Stop	L_Win & L_Alt
Props	L_Win & L_Ctrl
Compose	L_Win & L_Shift
Front	L_Win & F1
Open	L_Win & F2
Find	L_Win & F3
Again	L_Win & F4
Undo	L_Win & F5
Copy	L_Win & F6
Paste	L_Win & F7
Cut	L_Win & F8
Help	L_Win & F11
Power	L_Win & F12
Mute	L_Win & 1
Volume Down	L_Win & 2
Volume UP	L_Win & 3

## CE Statement

This device complies with the relevant EC Regulations for Electromagnetic Compatibility and Safety

## FCC Statement

This device generates and uses radio frequency and may cause interference to radio and television reception if not installed and used properly. This has been tested and found to comply with the limits of a Class B computing device in accordance with the specifications in Part 15 of the FCC Rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by plugging the device in and out, the user can try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the computer 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.

## Disclaimer

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WEEE (Waste of Electrical and Electronic Equipment), EC Regulation for Recycling of Electronic Products

### United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowed to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products.

**More details can be obtained from your national WEEE recycling agency.**

### Germany / Deutschland

Die Europäische Union hat mit der WEEE Richtlinie umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt.

Dieses Gesetz verbietet vom 24.März 2006 an das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! B2B Geräte wie diese KVM Switches nimmt LINDY kostenlos zurück und führt sie einem geordneten Recycling zu. Bitte nehmen Sie hierzu Kontakt mit LINDY auf, die Adressen finden Sie auf der LINDY Website [www.lindy.com](http://www.lindy.com)

### France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation WEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

### Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate.

Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

**Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.**