



DS-Eco Series Workstation (Linux)
User Manual

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User Manual

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About this Manual

This Manual is applicable to Workstation.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

 This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.

 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

 2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Applicable Models

This manual is applicable to the models listed in the following table.

Series	Model
DS-WSELI-T/(P)	DS-WSELI-T2
	DS-WSELI-T2/8P
	DS-WSELI-T4
	DS-WSELI-T4/16P

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- The product should be supplied by the UPS, so the DIPS don't need to test.

Chapter 1 Panels Description

1.1 Front Panel

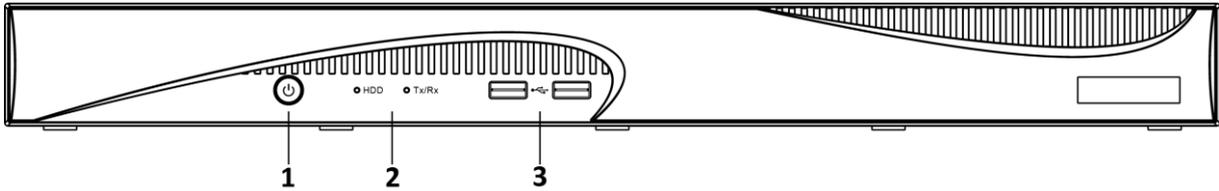


Figure 1-1 Front Panel

Table 1-1 Panel Description

No.	Name	Description	
1	Power button	Power on/off device.	
2	Indicator	HDD	Flickers red when data is being read from or written to HDD.
		Tx/Rx	Flickers blue when network connection is functioning properly.
3	USB 2.0 interface	Two Universal Serial Bus (USB) 2.0 ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).	

1.2 Rear Panel

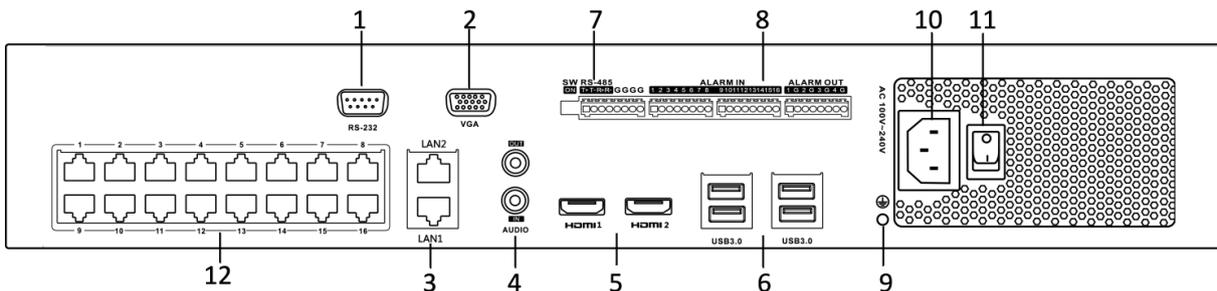


Figure 1-2 Rear Panel

Table 1-2 Panel Description

No.	Name	Description
1	RS-232 Interface	Connector for RS-232 devices.

2	VGA	DB9 connector for VGA output. Display local video output and menu.
3	LAN1/LAN2	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces.
4	Audio input/output	RCA connector for audio input/ output.
5	HDMI1 and HDMI2	HDMI video output connector.
6	USB 3.0 interface	Four Universal Serial Bus (USB) 3.0 ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
7	RS-485 and terminal switch	RS-485 interface and terminal switch.
8	Alarm input/output (optional)	Connector for alarm input/output.
9	GND	Ground (needs to be connected when NVR starts up).
10	100 to 240 VAC	100 to 240 VAC power supply.
11	Power switch	Switch for turning on/off the device.
12	PoE interface	Network interfaces for the cameras and to provide power over Ethernet. Only available for DS-WSELI-T2/8P and DS-WSELI-T4/16P. 8 interfaces for DS-WSELI-T2/8P and 16 interfaces for DS-WSELI-T4/16P.

Chapter 2 Install Operation System

Purpose:

The device supports Ubuntu16.04.03 64-bit operation system. Follow the steps to install Ubuntu operation system on device.

Before you start:

- Download the Ubuntu16.04.03 64-bit operation system from Ubuntu official site.
- Prepare a 2.0 or 3.0 USB device of not more than 64 GB capacity and format it to FAT32 format.
- Decompress the Ubuntu operation system and copy it to the USB device.

Step 1 Insert the USB device contains Ubuntu operation system to device USB interface.

Step 2 Turn on device. Then installation window will appear.

Step 3 Click **Install Ubuntu**.

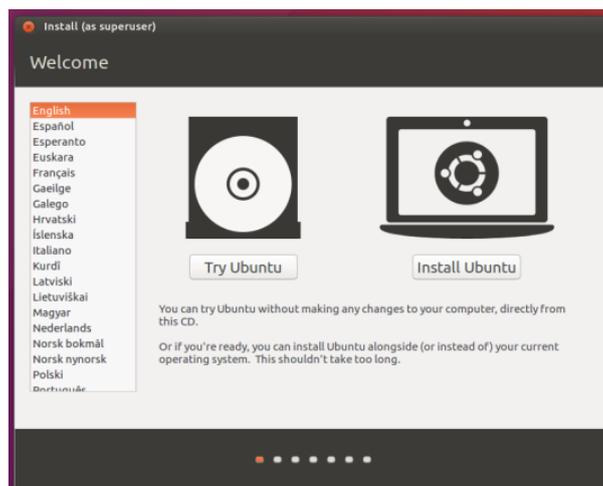


Figure 2-1 Welcome

Step 4 Select none or select the option as needed. Here we take the example of selecting none to describe the steps.

Step 5 Click **Continue**.

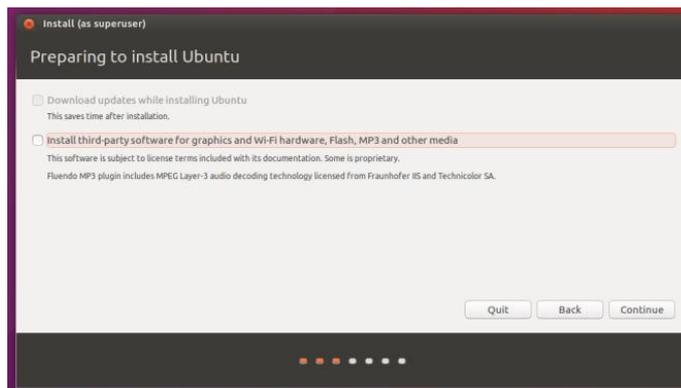


Figure 2-2 Preparing to install Ubuntu

Step 6 Select **Installation Type**. We take the example of selecting **Erase disk and install Ubuntu** to describe the steps.

Step 7 If both MMC and SATA disks exist, you need to select the disk.

Step 8 Click **Install Now**.

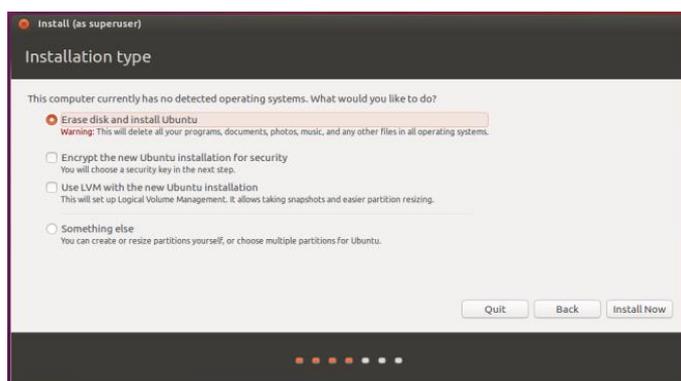


Figure 2-3 Installation Type

Step 9 Click **Continue** on popup message box to confirm the operation.

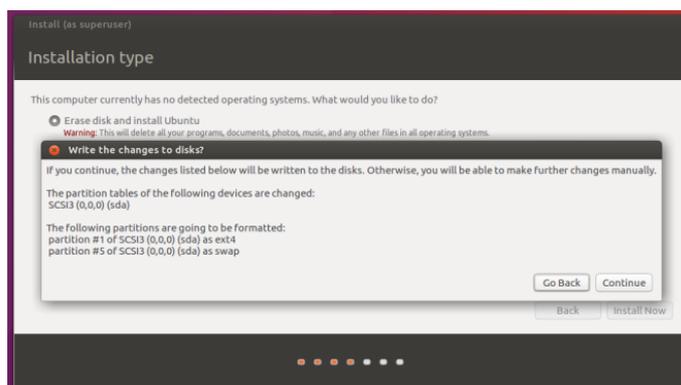


Figure 2-4 Installation Type

Step 10 Set region and click **Continue**.

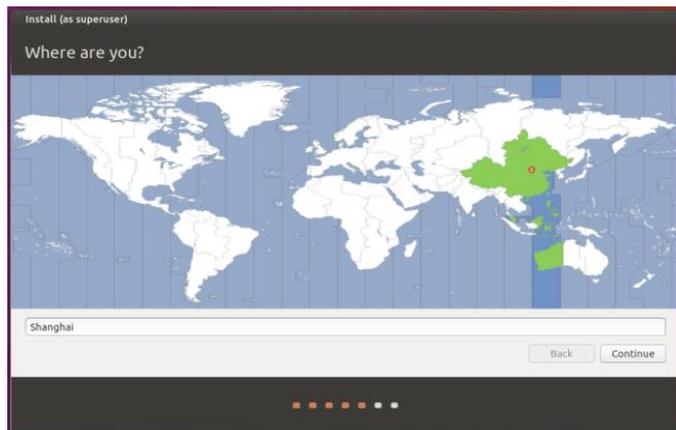


Figure 2-5 Select Region

Step 11 Set **Keyboard layout** and click **Continue**.

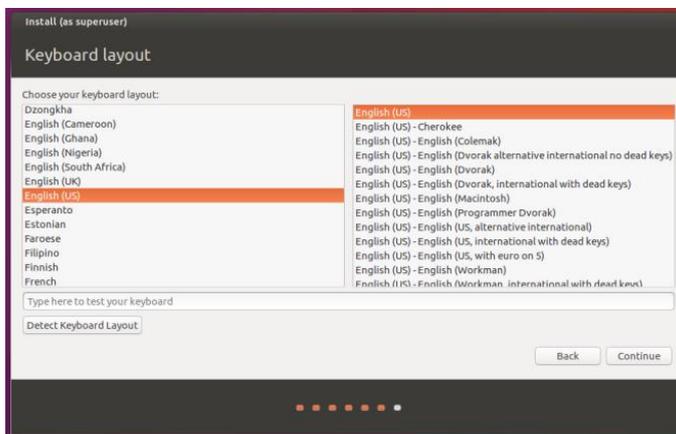


Figure 2-6 Keyboard Layout

Step 12 Enter user information to create a user.

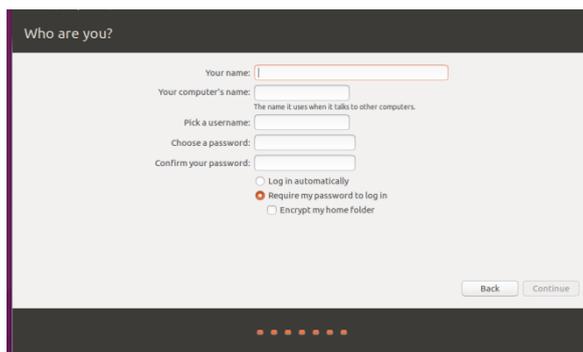


Figure 2-7 Create User

Step 13 Click **Continue** to start installing operation system.



Figure 2-8 Installation

Step 14 After installation finished, click **Restart Now** to restart device. After restart, you can use the new installation.

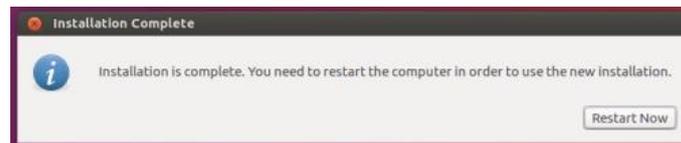


Figure 2-9 Installation Complete

Chapter 3 Start Device up

Proper startup and shutdown procedures are crucial to expanding the life of the device.

Step 1 Check the power supply is plugged into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device.

Step 2 Turn on the power switch in rear panel.

Step 3 After the device starts up, enter device user name and password to log in.

Default user name/password: user/user.



We highly recommend you create a strong password. In order to increase the security of your product, we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

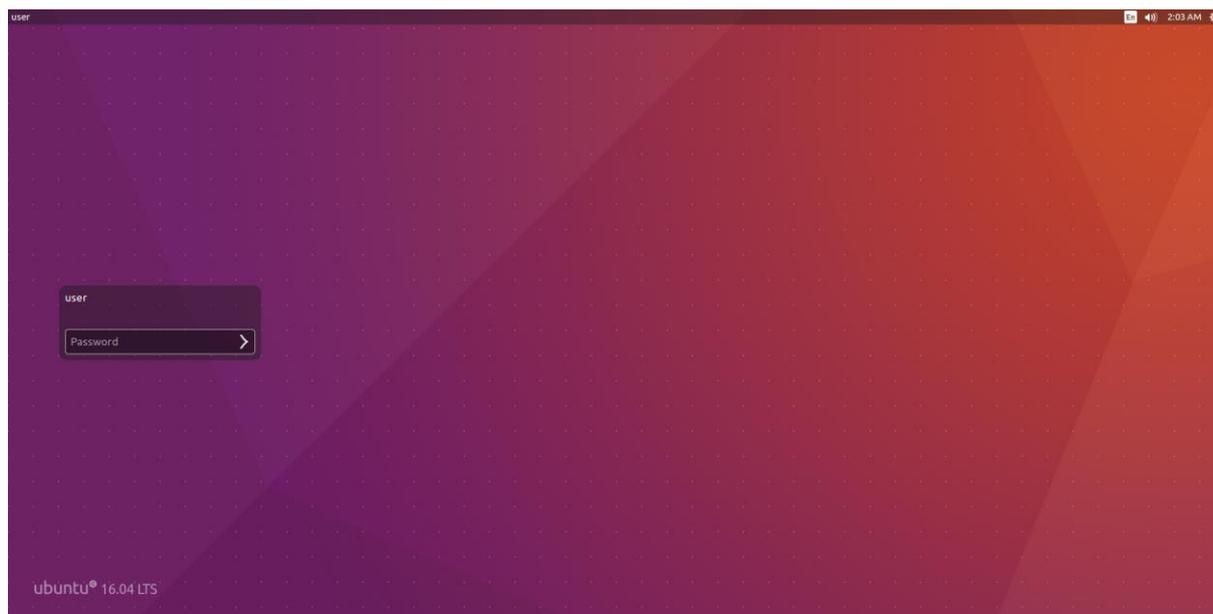


Figure 3-1 Login Interface

Chapter 4 HDD Installation

Purpose

The following section introduces the HDD installation.

Before you start

Disconnect the power from the device before installing a hard disk drive (HDD). A factory recommended HDD should be used for this installation.

Tools Required: Screwdriver.

Step 1 Remove the cover from device by unfastening the screws on panels.

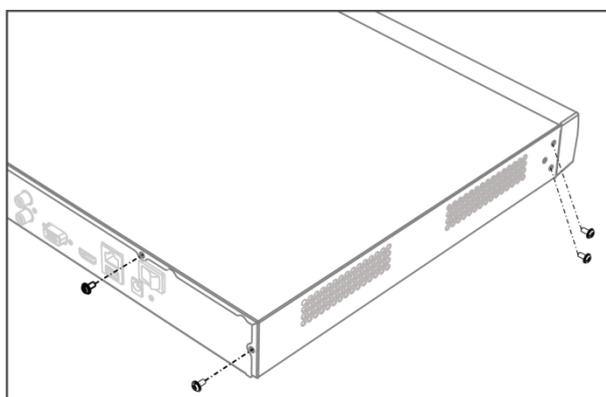


Figure 4-1 Remove Cover

Step 2 Connect the data cable and power cable.

- 1) Connect one end of data cable to the device motherboard.
- 2) Connect the other end of data cable to HDD.
- 3) Connect one end of power cable to HDD.
- 4) Connect the other end of power cable to the device motherboard.

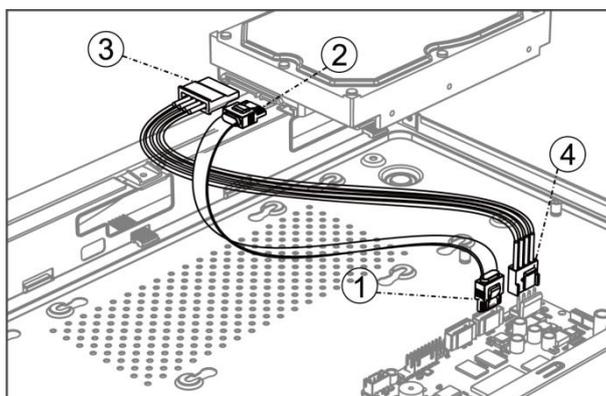


Figure 4-2 Connect Cables

Step 3 Set the device up, match HDD screw threads with the reserved holes on the device bottom, and fix HDD with screws.

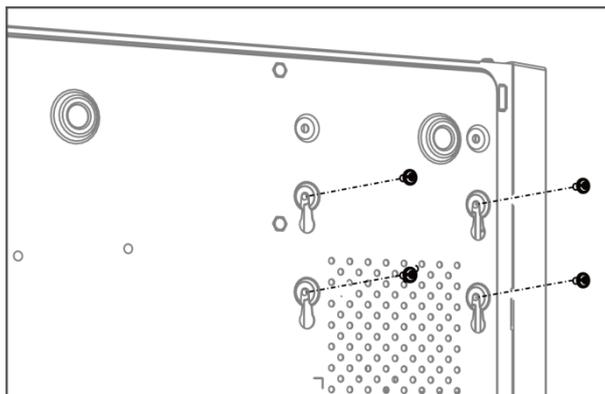


Figure 4-3 Fix HDD to Device Bottom

Step 4 (Optional) Repeat the steps above to install other HDDs.

Step 5 Reinstall the device cover and fasten screws.

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See Far, Go Further