



## VIPER-NH5S-16 NDAA NVR Quick Guide





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## Before You Begin

Please read this guide before installing or operating the product. You must have knowledge of CCTV, IT and electrical wiring and products.

### Technical Support

If you still have questions after referring to the guide, or require more information, please contact Vista Technical Support or use the QR code.

**Vista Technical Support +44 (0) 118 912 5125**

**Norbain SD, Inspired, Easthampstead Road, Bracknell, Berkshire  
RG12 1YQ**



\* WARNING: Improper use can cause severe bodily injury or equipment damage.

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This guide is intended for use with the following recorder.

**VIPER-NH5S-16 NDAA NVR**



## 1. Packing List

Please contact Norbain if any items are missing or damaged.

- Recorder
- USB Mouse
- PSU and UK mains lead
- HDD data & power lead and screws
- HDD fixing screws
- This guide

## 2. Safety & Maintenance Instructions

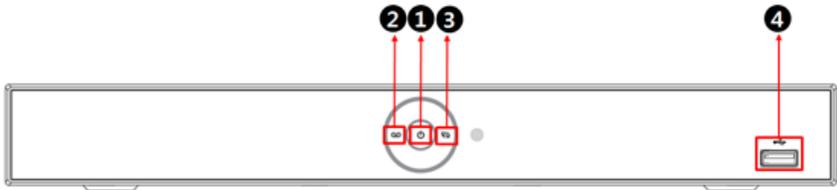
- Use only correctly rated PSUs supplied with the device.
- Do not use this apparatus near water.
- Do not install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that product heat.
- Do not block any ventilation openings.
- Protect the power cord from being walked on or pinched.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms.
- Refer all servicing to qualified service personnel only. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid spillage etc.



CAUTION - THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

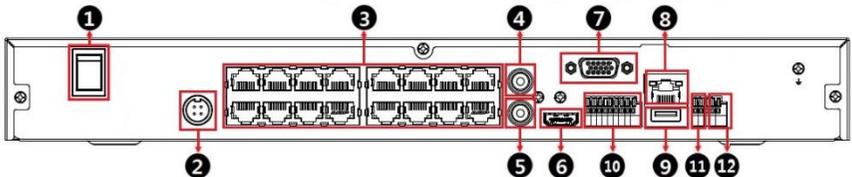
### 3. Indicators and Interfaces

Refer below for description of the front mounted LED indicators etc.



No.	LED	Indication	Description
1	PWR(Power)	Extinguished Blue	No power Powered up
2	Record	Extinguished Red	Not recording Recording
3	Network	Extinguished White	No user login Network user logged in.
4	USB	n/a	1 Front, 1 rear

Interface identification is provided below for the 16-channel Viper.



No.	Name	Function
1	Power switch	Turn on/off
2	Power	48VDC
3	IP Cam/PoE	16 PoE ports to IEEE802.3af/at
4	Audio In	1 x RCA, 16 x IP Camera
5	Audio Out	1 x RCA
6	HDMI	HDMI monitor output
7	VGA	VGA output port
8	LAN	RJ45 10/100/1000 – Internet / Corporate network
9	USB	USB 2.0 mouse/memory support
10	Alarm in	8 via terminal block
11	RS485	RS485 - PTZ camera control or keyboard.
12	Alarm Out	1 via terminal block

## 5. Disk Installation

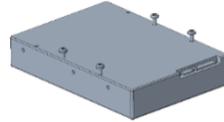
Your recorder will normally be specified and provided with the required HDD storage. However, if adding your own, (max 2 x SATA), please refer to the below section.

### Preparation



- You will require a 1# or 2# Philips screwdriver and antistatic gloves or wrist strap.
- Disconnect power before installation.

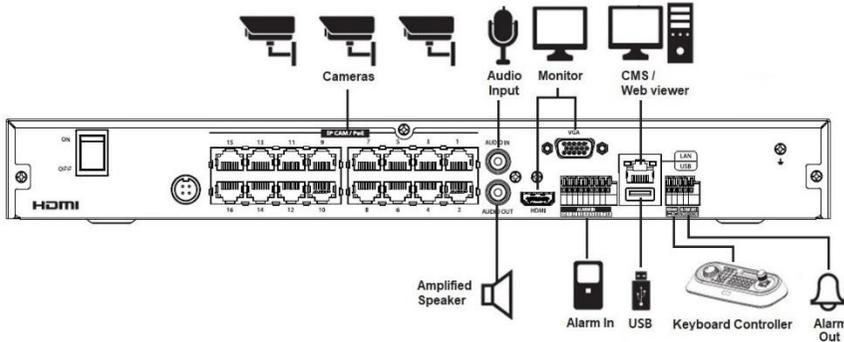
1. Remove top cover by removing all rear and side screws and lifting cover away.
2. Install HDD into one of the bays provided in the bottom of the chassis and fix with screws as indicated.
3. Connect both a data cable and power cable between the HDD and motherboard - 1-pair provided as standard.
4. Refit the cover and secure the cover.



This completes this part of the procedure. Format the new HDDs once logged into the recorder.

## 6. Connecting Devices

Place NVR into required location and use the below to identify and connect monitor, mouse, Ethernet, IP cameras and other required devices to their relevant ports.



## 7. Initial Start-up

Ensure all cables are connected correctly and securely.

1. Connect external PSU adaptor and switch on at wall and rear of Viper recorder.  
Below boot sequence will start.

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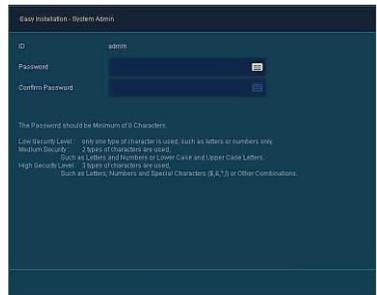
NOTE: Sequence takes longer if new HDDs just installed.

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2. Initial login screen is presented, login with admin/admin.
3. You will be prompted on this first login to set a new Admin password (right).

Set a strong password for maximum security!

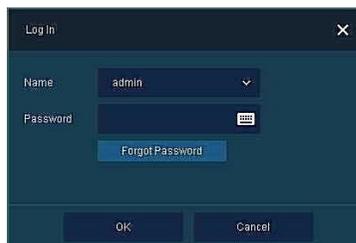


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Note: A password must contain two or more of the below:

- At least one lowercase English character.
- One uppercase English character.
- One special character: "! @ # \$ % ^ & \* ( ) - + ..."
- At least one digit.

4. Now login using the new password.



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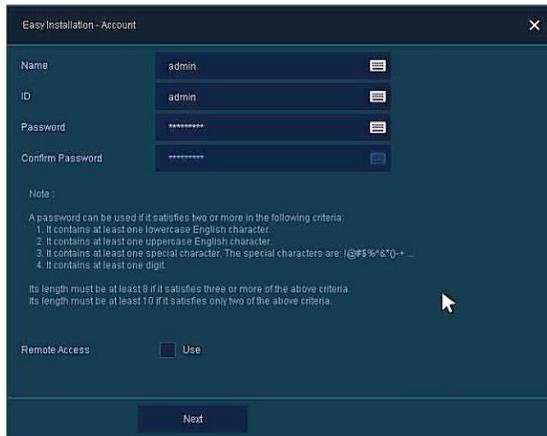
Note: If you forget the admin password, click [Forgot Password] to display the recorder's MAC address. Note this, then refer to the procedure over the page, **Password Recovery**.

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## 8. Installation Wizard Setup

It is strongly suggested you create separate and additional login accounts for users and supervisors rather than using the Admin ID.

1. Click the virtual keyboard icon to set a user ID and password.



Easy Installation - Account

Name: admin

ID: admin

Password: \*\*\*\*\*

Confirm Password: \*\*\*\*\*

Note:

A password can be used if it satisfies two or more in the following criteria:

1. It contains at least one lowercase English character.
2. It contains at least one uppercase English character.
3. It contains at least one special character. The special characters are: !@#\$%^&\*()-+...
4. It contains at least one digit.

Its length must be at least 8 if it satisfies three or more of the above criteria.  
Its length must be at least 10 if it satisfies only two of the above criteria.

Remote Access  Use

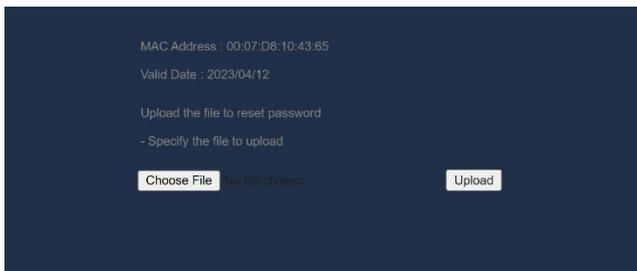
Next

2. Select Remote Access to allow web interface access to the NVR.
3. Click [Next] and complete any additional settings required.

## Password Recovery

The password recovery procedure applies to the Admin ID only. For all other forgotten passwords, reset them by asking your local Admin account user.

1. On clicking [Forgot Password] from the previous page, the below screen will be displayed.



MAC Address : 00:07:D8:10:43:65

Valid Date : 2023/04/12

Upload the file to reset password

- Specify the file to upload

Choose File  Upload

2. Make a note of the MAC address given.
3. Contact Vista Technical Support (number provided on page 3.) with your e-mail

address and other contact details as well as the MAC address.

4. Vista Technical Support respond with an e-mail and recovery file attached.
5. Save the recovery file to a USB memory stick, insert into the recorder and use the same menu to [Choose File] and then click [Upload].
6. Once recovery has occurred, log in to the recorder as Admin and set a new strong password.

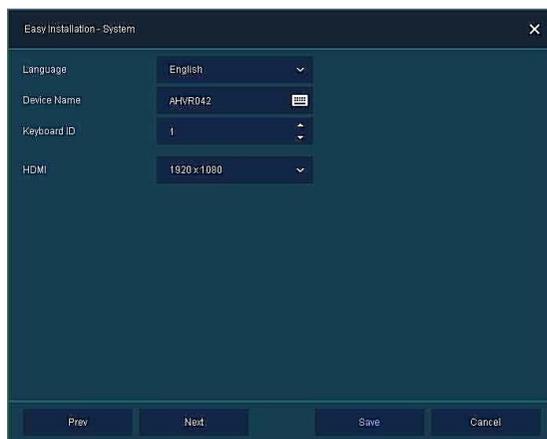
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Note: Password recovery e-mail replies may take up to 24-hours during busy periods!

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## System Settings

Set each system setting screen and option as required.



The screenshot shows a window titled "Easy Installation - System" with a close button (X) in the top right corner. The window contains four settings, each with a label and a value field with a dropdown arrow:

- Language: English
- Device Name: AHVR042
- Keyboard ID: 1
- HDMI: 1920 x 1080

At the bottom of the window, there are four buttons: "Prev", "Next", "Save", and "Cancel".

1. Select system language.
2. Enter a device name.
3. Keyboard ID: Enter a unique ID for the recorder on your site for keyboard control.
4. HDMI: Set resolution of monitor connected to the recorder.

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### Note

- VGA port will not display video if resolution set to 3840x2160!
  - HDMi resolution returns to 1024x768 if 3840x2160 is not supported by your monitor.
- 

Click [Save] then [Next] to set further menu options.

## NETWORK

Use below screen example and set required static or DHCP IP setting for the WAN port. Also set a static IP address, if the default is not suitable, for the PoE Port Server interface for use with any PoE port connected IP cameras.

The screenshot shows a network configuration window titled "Easy Installation - Network". It has a close button (X) in the top right corner. The window is divided into several sections for configuration:

- WAN Port:** Two radio buttons are present: "Static IP" (which is selected) and "DHCP (Dynamic)".
- IP Address:** A text field containing "192.168.0.8" with a copy icon and a dropdown arrow.
- Subnet Mask:** A text field containing "255.255.255.0" with a copy icon and a dropdown arrow.
- Gateway:** A text field containing "192.168.0.1" with a copy icon and a dropdown arrow.
- DNS:** A text field containing "8.8.8.8" with a copy icon and a dropdown arrow.
- Port (TCP/RTSP/Web):** Three spinners with values "9350", "554", and "80". Each has a copy icon and a dropdown arrow.
- PoE Ports Server:** A text field containing "192.168.30.1" with a copy icon and a dropdown arrow.

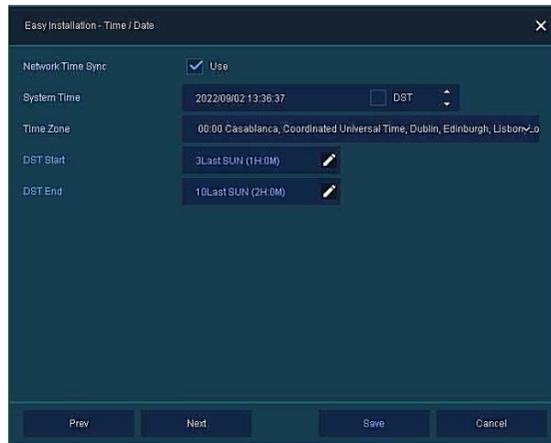
At the bottom of the window, there are four buttons: "Prev", "Next", "Save", and "Cancel".

- WAN Port: Select whether to use static IP or dynamic IP.
- IP Address, Subnet Mask, Gateway, DNS, and Port: set as required.
- PoE Ports Server: amend the default IP address if not suitable.

1. Click [Save] to set value.
2. Click [Next] to end Network settings and move to next screen.

## DATE AND TIME

1. Set each item in Time/Date setting screen.



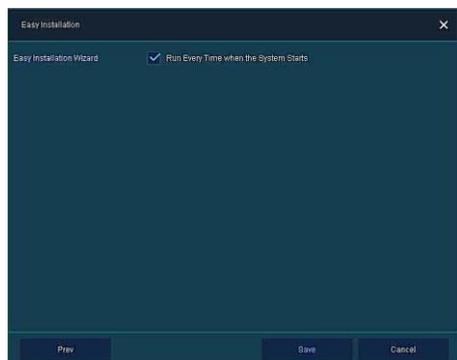
- 
- Network Time Sync: Select to synchronize with NTP time server.
  - System Time: Or set time and date manually if NTP not possible.
  - DST: enable if wanting Daylight saving.
  - Time Zone: Select your time zone.
  - DST Start/End: Amend if incorrect for your location.
- 

2. Click [Save] to set value.
3. Click [Next] to end Time/Date setting and go to next screen.

## EASY INSTALL WIZARD

1. Select whether to run Installation Wizard each time the system is started, or not.
2. Click [Save] to set value and complete the Installation Wizard.

This ends the procedure.



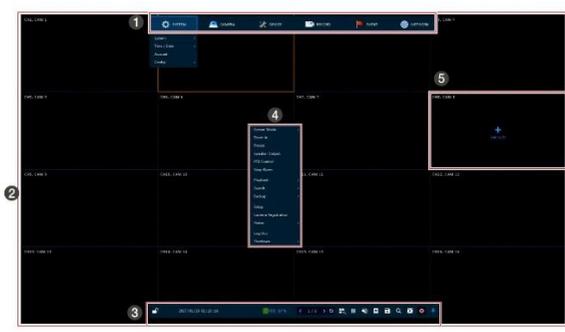
## 9. Basic Recorder Operation

For the recorders full manual, set-up instructions and mobile device applet etc, please use the QR code provided at the front of this guide.

Below we provide some initial basic recorder operation help.

### Menu and Screen Navigation

The main live screen is shown below with various menus identified. Refer to proceeding descriptions to understand each menus navigation and explanation of options.



No.	Name	Function
1	Setup Menu	Top level menu access navigation bar.
2	Live Screen	Shows Live cameras. Also, playback when in playback operations.
3	Launcher Menu	Change split screen modes, scroll to next split screen, calendar search and export footage etc.
4	Quick Menu	Right-click mouse to reveal quick menu for more common commands and PTZ camera control.
5	Add to CH	Move mouse cursor to channel and click + icon to go to IP Camera Registration menu to add new IP camera.

## Setup Menu

This section covers the Setup menu displayed at the top of the Live screen.



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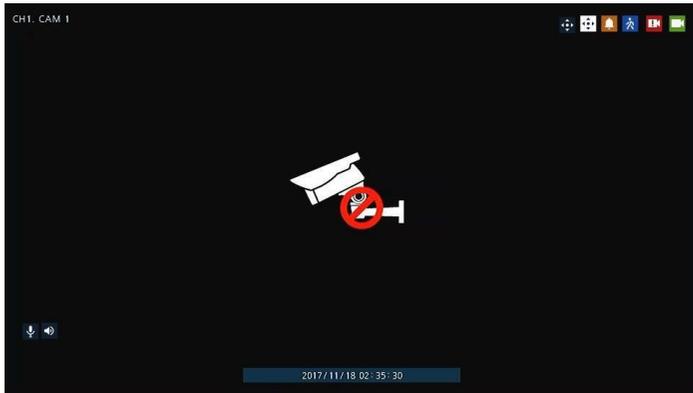
Note: Also available via Quick Menu when you right-click the mouse.

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No.	Item	Description
1	<b>SYSTEM</b>	Firmware upgrade, config backup, date/time user accounts etc.
2	<b>CAMERA</b>	Titles, covert, audio enable, color/brightness/contrast, privacy mask, resolution etc.
3	<b>DEVICE</b>	HDMI/VGA resolution, spot monitor, HDD info/format, PTZ protocols, etc.
4	<b>RECORD</b>	Set schedule continuous/motion/alarm, main/secondary resolution etc.
5	<b>EVENT</b>	Set alarm, motion, video-loss and HDD notifications and parameters etc.
6	<b>NETWORK</b>	Set network IP details, remote black/white IP access lists, DVRNS/DDNS/P2P remote access, e-mail etc.

## Live Screen and Camera Navigation

Each individual camera channel in the live screen displays icons to show that individual channels status and/or function. Refer to the example and icon explanation over the page.



No.	Icon	Description
1	CH1 CAM1	Channel number and camera title
2		Displayed if camera has PTZ functions
3		PTZ control of selected camera
4		Recording in alarm mode
5		Recording in motion mode
6		Recording in panic mode
7		Recording in continuous mode
8		Video loss
9		Mic on/off
10		Speaker on/off
11		Date and time - current

## Launcher Menu

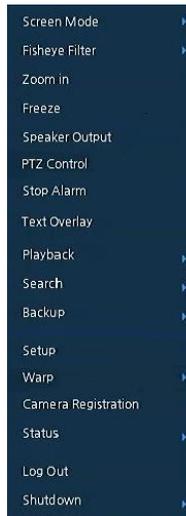
This section covers the Live Launch menu seen at the bottom of the Live screen (below).



No.	Icon	Description
1		Log in/out status and logged in ID.
2	Date & Time	Displaying present date and time.
3	HDD	Displaying HDD capacity in use.
4		Moving to previous/next partition screen.
5		Displaying live screen in order
6		Select screen split mode: single, 4, 9 and 16-way
7		Pause or play selected live screen images
8		Audio on or mute (toggle).
9		Save a bookmark.
10		Make backup/export of footage.
11		Search recorded data by time, event, thumbnail, smart search or text
12		Playback recorded data
13		Starting immediate recording of selected channel.
14		Lock or release launcher menu for moving to new screen location

## Quick Menu

This section details the Quick Menu that is viewed when right clicking the mouse in the Live screen.



No.	Item	Description
1	<b>Screen Mode</b>	Select split mode: Full, 2X2, 3X3, or 4x4.
2	<b>Fisheye</b>	Select for 360 cameras to dewarp their views
3	<b>Zoom in</b>	Zoom in selected live screen, 2x, 4x or 8x.
4	<b>Freeze</b>	Pauses selected live video screen
5	<b>Speaker Output/Mute</b>	Turning on/off output sound.
6	<b>PTZ Control</b>	Control PTZ functions of selected camera.
7	<b>Stop Alarm</b>	Stop monitoring alarm output and event.
8	<b>Text Overlay</b>	POS Text display (future development)
9	<b>Playback</b>	Instantly rewind and playback selected live images (30 sec, 1 min, 5 min, 10 min, 30 min, 1-hour, go to oldest recording, return to latest record time).
10	<b>Search</b>	Searching recorded footage (time, event, thumbnail, smart search and text).
11	<b>Backup</b>	Export/backup video footage.
12	<b>Setup</b>	Open main set up menu.
13	<b>Warp</b>	Dewarp 360 camera views
14	<b>Camera registration</b>	Open pop-up menu for IP camera registration and addition.
15	<b>Camera Upgrade</b>	Open pop-up menu for IP camera firmware upgrade
16	<b>Status</b>	Open pop-up status menu: device system log, event, and recording status (system log, event, and record).
17	<b>Statistical Analysis</b>	Open pop-up menu for camera events that have occurred
18	<b>Log in/Log out</b>	Log in/Log out
19	<b>Shutdown</b>	Shuts down or restarts the recorder (shutdown, restart).

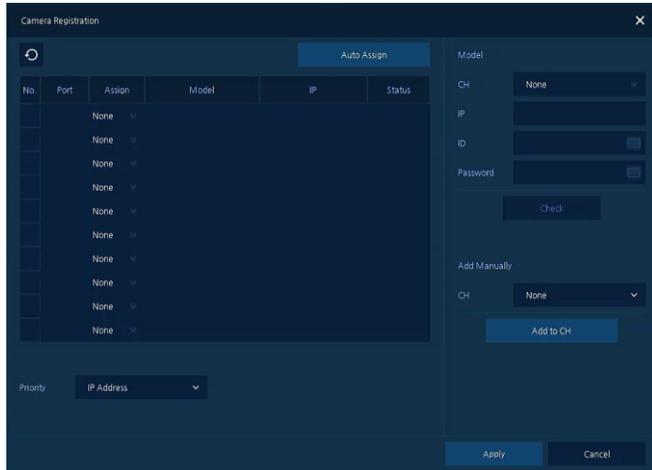
## Add IP Camera Registration

The below IP Camera Registration menu is displayed when right clicking a spare channel in the Live screen and clicking + to add a new IP camera.

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Note: the IP camera will first need to be physically connected to either a spare PoE port or WAN network. The camera must be set with the require DHCP or static IP address – whichever is relevant to your installation.

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No.	Item	Description
1		Search for connected IP cameras.
2	<b>Auto Assign</b>	Automatically IP camera/s to channel windows.
3	<b>Port</b>	Show the detected camera/s port i.e., WAN or PoE.
4	<b>Assign</b>	Select and assign the channel window manually.
5	<b>Model</b>	Show detected camera/s model number
6	<b>IP</b>	Show detected camera/s IP address
7	<b>Status</b>	Show connection status
8	<b>Priority</b>	Select IP Address or Zero conf IP: select the priority for which IP address to use in adding an IP camera
9	<b>Add Manually</b>	Select channel and click  to open the Manual Add menu

Please use the QR code to access online manual for help in using and operating the Vista Viper NDAA recorder for best performance.



Where applicable, a Declaration of Conformity in accordance with Directives 2014/30/EU (EMC), 2014/35/EU (LVD), and 2015/863/EU RoHS (3) has been made and we declare the product compliant.



Where applicable, the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive: 2015/863/EU have been met and the product is without the hazardous substances cited in the directive.

**Our CE EU-Authorised Representative: Comply Express Unipessoal LDA, StartUp Madeira - EV141, Campus da Penteadá, 9020-105 Funchal, Madeira, Portugal”.**



Symbolizes that within the European Union the product must be collected separately at the product end-of-life. Do not dispose of these products as unsorted municipal waste.



A UK Declaration of Conformity in accordance with GB UKCA standards has been made. The manufacturer declares that the product supplied with this document is compliant with the provisions of the Electromagnetic Compatibility Regulations 016, and where applicable, the Electrical Equipment (Safety) Regulations 2016 Directives.

**WARNING**

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

No liability will be accepted by Vista for any errors or omissions in this information and reserves the right to make changes to the product and its specification from time to time without prior notice.