



clinton electronics CE-E04HDA 4CH-16CH Encoder User Guide

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clintonelectronics

clinton electronics CE-E04HDA 4CH-16CH Encoder



Product Information

This product is a monitoring system that allows you to connect various components such as cameras, audio equipment, and alarms to monitor and control your premises. The product comes with several input and output ports, including video in, audio in and out, VGA, Ethernet, and alarm inputs/outputs. In addition, the product comes with RS-485 communication ports and relay outputs.

Product Usage

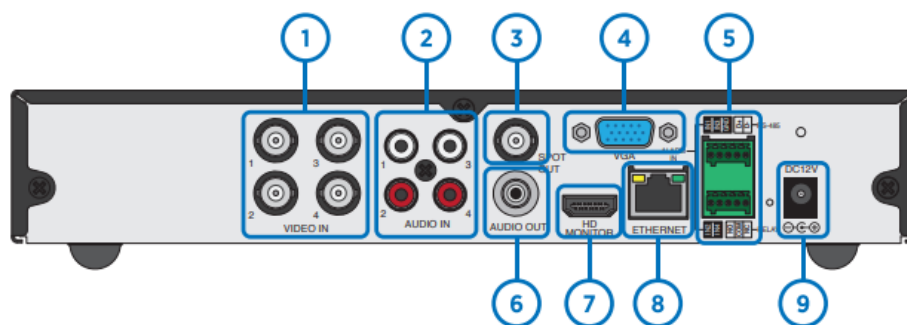
- **Step 1:** Connect the cameras to the video input ports using the supplied cables.
- **Step 2:** Connect the audio equipment to the audio input ports using the supplied cables.
- **Step 3:** Connect the monitor to the HD monitor port using the supplied cable.
- **Step 4:** Connect the VGA port to an external monitor or projector using the supplied VGA cable.
- **Step 5:** Connect the Ethernet port to a network using an Ethernet cable.
- **Step 6:** Connect alarms to the alarm input ports and outputs to the alarm output ports.
- **Step 7:** Power on the system by plugging into a power outlet using the DC12V power supply.
- **Step 8:** Use the RS-485 communication ports to connect to other devices such as PTZ cameras.
- **Step 9:** Use the relay outputs to control other devices such as lights or doors.
- **Step 10:** Refer to the user manual for further instructions on how to set up and use specific features of the monitoring system.

Please note that proper installation and usage of this product should comply with local laws and regulations. It is recommended to consult with a professional for proper installation and usage.

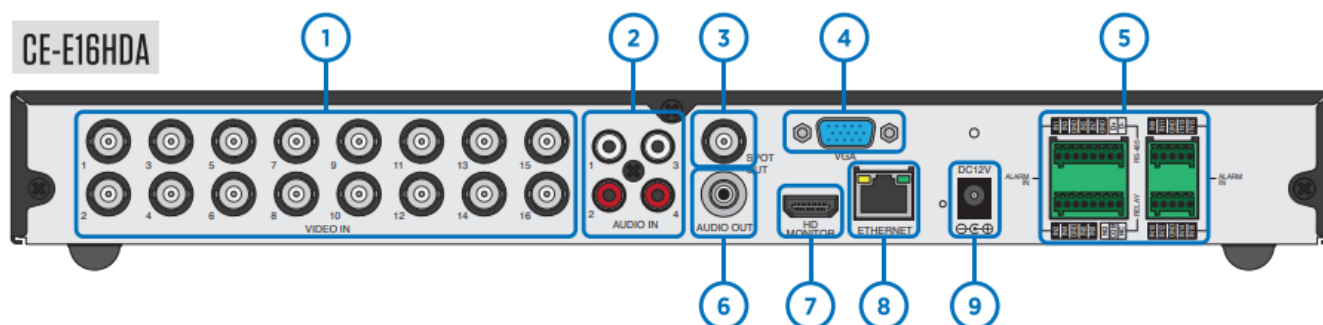
CE-E04HDA & CE-E16HDA 4cH/1BcH ENCODER UICK GUIDE

Hardware Overview

CE-E04HDA



CE-E16HDA



1. VIDEO INPUTS (Analog/CVBS, AHD, TVI up to 4MP)
2. AUDIO INPUTS
3. SPOT MONITOR OUTPUT (CVBS)
4. VGA MONITOR OUTPUT (1280 x 1024 max)
5. RS485 / RELAY (Alarm Output) / ALARM IN
6. AUDIO OUTPUT
7. HDMI MONITOR OUTPUT (UHD 3840 x 2160 max)
8. ETHERNET PORT
9. 12VDC POWER INPUT

Basic Connection

1. Connect coaxial cable from Analog/HD Analog cameras to the desired channel on the back of the Encoder.
2. Plug in an ethernet cable to the Ethernet port on the back of the Encoder. This device does not support WiFi and must be directly connected to a Modem/Router for network connection.
3. Connect any RS485, Alarm Inputs/Outputs or Audio Inputs/Output connections.
4. Choose a desired main monitor connection; VGA or HDMI. (VGA connection does not support UHD 4K output)
5. Plug in USB mouse to front of Encoder.
6. Plug the 12VDC power cord into the back of the Encoder.
7. Plug the cord from the power supply into an appropriate surge protector. Plug the surge protector into main power source.
8. The Encoder will begin to boot up after the power has been connected. Please wait.
9. After initial boot up, proceed to step 3a to create a password for the ADMIN user.



Ensure there is adequate ventilation around the Encoder and do not cover or block the fan and/cooling vents. The Encoder can over-heat if these are blocked.



Do not install the Encoder into an environment that is exposed to extreme temperatures; attic/walk-in freezer. Do not install the Encoder on top or near equipment that generates heat.

NOTE:

- This is not a recording device! No HDD Installed, unable to install HDD! Connect to NVR or other network recording device.
- This device does not support WiFi connection. A hardwired network connection is required for proper function.
- This is not a PoE device! Main power to the encoder must come from included DC12V power supply.
- This Encoder features an on-screen user interface. This Quick Guide details the use of the on-screen menu when using a connected monitor.

Setup can also be achieved using a web browser if the IP Address of the encoder is already known.

Initial Setup/ Create Password

1. After providing power to the encoder, wait for the boot up sequence to finish.
2. Set the password for the ADMIN user role. Double-click in the password field to display the on-screen keyboard.
3. If desired, enter an email address to be emailed a password reset in the event you can not remember the password. (this can be set up later)
4. Click OK when finished.

NOTE:

- A new, unique password is required to continue with setup. This step can not be skipped. Keep a record of the ADMIN password in a secure place.

- Enter an email address for the ADMIN in the event the password is forgotten. Email authentication requires the connected network have internet access.

Initial Setup / Network Setup Wizard



1. If desired click 'Start Network Setup Wizard' to configure the network settings. Follow the on-screen prompts to setup the network.
 2. Click 'Cancel' to skip this step. Network settings can be configured manually from System Setup/ Network.
- © The Network Setup Wizard can be found in System Setup | System | System Management.

Status Bar

- Move the mouse cursor to the bottom of the screen to display the Status Bar.
- Changing the Multi-View Mode and other menu options are disabled when logged out. Log in to adjust.



1. **MENU** : Click to access System Setup menu and Log Out/ Log In
2. **USER** : Displays current logged in user.
3. **MULTI-VIEW MODES** : Click desired view icon to manually cycle through cameras, ex: if single camera view selected, clicking the icon again will advance to the next camera.

4. **AUTO SEQUENCE MODES** : Click to C begin single camera sequence. Sequence settings can be adjusted in System Setup/ Display.
5. **OSD ON/OFF** : Toggle OFF to hide the camera names.
6. **PTZ CONTROL** : Click to control PTZ camera (requires additional setup for correct operation).
7. **ZOOM** : Digital zoom in on desired camera.
8. **AUDIO** : Click to select the desired Audio channel to listen to.
9. **ALARM STATUS** : Displays current alarm input/output status.
10. **NETWORK STATUS** : Displays current network status and connected clients.

Network/ IP Setup

(if not using DHCP)

The screenshot shows the 'NETWORK' setup screen for 'clintonelectronics'. The 'IPV4' tab is selected. The 'DHCP' checkbox is checked, and a 'RENEW' button is next to it. Below this, several fields are populated with values: IP ADDRESS (10.1.3.55), GATEWAY (10.1.3.254), SUBNET MASK (255.255.255.0), 1ST DNS SERVER (10.1.3.23), and 2ND DNS SERVER (0.0.0.0). Further down, 'AUTO PORT UPDATE' is set to 'ON'. The 'AUTO PORT STATUS' section shows a message: 'The router does not support UPnP.' with a 'CONFIRM CONFLICT' button. Below that, 'RTSP SERVICE PORT' is 554 and 'WEB SERVICE PORT' is 80. Each has an 'AUTO PORT FORWARDING' button and a 'DELETE PORT' button. At the bottom, 'MAX TX SPEED' is set to 'MAX'. At the very bottom are 'CANCEL', 'APPLY', and 'CLOSE' buttons.

Check the network address information if using a network environment connected to the same router.

1. From the main menu of the Encoder, move to System Setup/ Network/ IP Setup.
2. Un-check the DHCP check-box and provide the necessary information manually. (Check the network address information in the network environment settings and enter the correct information)
 - **IP Address:** Enter the desired IP address for the encoder
 - **Gateway:** Enter the Gateway from the Local Network
 - **Subnet Mask:** Enter the Subnet Mask from the Local Network
 - **1st/2nd DNS Server** : Enter the address of the DNS server
3. When done, set the port numbers for RTSP and Web Service ports, then click Auto Port Forwarding if the router supports UPnP. Some routers do not support UPnP. If there is a failure message, manual port forwarding will need to be performed on the router.
4. After the IP Address, RTSP and Web Port information has been configured, click Apply to save settings.

ATTENTION:

Actual network settings and addresses will vary depending on network configuration/requirements. Use this information as a basic guide in configuring network settings.

Network/ DDNS (optional)

The screenshot shows the 'NETWORK' configuration page for Clinton Electronics. On the left is a sidebar menu with options: IP SETUP, DDNS (selected), EMAIL, NETWORK STATUS, SECURITY, and RTP. The main area is titled 'DDNS SETTINGS'. It contains the following fields and controls:

DDNS SETTINGS	
DDNS	ON
DDNS SERVER	dvrlink.net
DVR NAME	00116/000978
USER NAME	
PASSWORD	
DVR ADDRESS	00116/000978.dvrlink.net

Below the fields are two buttons: 'DDNS REGISTRATION TEST' and 'DDNS CONNECTION TEST'. At the bottom of the main area are three buttons: 'CANCEL', 'APPLY', and 'CLOSE'.

Once the network configuration is complete, proceed with the DDNS settings (if desired) to allow access to the Encoder from outside the network.

1. From the main menu of the Encoder, move to System Setup/ Network/ DDNS.
2. Set DDNS from OFF to ON.
3. Select the DDNS server and enter a unique name for the Encoder. The default name is the MAC Address of the Encoder.
4. Click DDNS Registration Test to check if the name is available and register. Then click DDNS Connection Test. If both tests are good, then click Apply to save changes.
5. From the router, check that the Encoder's IP Address and Web port is accessible from the outside.
6. The remote address for the Encoder will be the name assigned in step 3. For example, if the name assigned in step 3 is: MyEncoder- the address will be: <http://MyEncoder.dvrlink.net:80> (if the web port is set to 80).

Camera/ Codec Setup

(optional)

PROPERTY	VIDEO STREAM	
	1ST STREAM	2ND STREAM
CODEC	H.264	H.264
CODEC PROFILE	BASELINE	BASELINE
RESOLUTION	960x480	640x480
FPS	30	30
GOP	30	30
BITRATE CONTROL	CBR	CBR
BITRATE	4000	500
MJPEG QUALITY	40	40

Buttons: APPLY, CLOSE

Adjust the individual network stream properties of each camera.

1. From the main menu of the Encoder, move to System Setup/ Camera/ Codec Setup.
2. Select the desired channel/camera from the drop-down menu.
3. Set the desired codec, resolution, FPS, and other stream options. For best performance, these parameters may need to match those of additional connected network NVR or other device.
4. Once complete with making adjustments to the camera stream properties, click the Apply button to save changes.

Web Viewer

WebRA 2.0 - SYSTEMID

http://192.168.0.210

clintonelectronics

USER ID

PASSWORD

LOG IN Forgot Password?

The Encoder can be accessed through most web browsers (Google Chrome, Safari, Fire Fox, Microsoft Edge) to view individual live camera feeds or make adjustments to the Encoder.

1. Open the desired web browser and enter either the IP Address of the Encoder or the URL from the DONS

Address.

2. Log into the encoder as ADMIN with the unique password created in step 3a. (the fields are case sensitive)
3. If the User ID & Password were correct the live camera feed will display. If it fails to connect, re-enter the password or click the Forgot Password button. The account will be locked out for a few minutes if there are multiple failed login attempts.



1. **VIEW SELECTION** : Click 'LIVE' to display the camera view, or click 'SETUP' to make adjustments to the Encoder settings.
2. **PTZ CONTROL PANEL*** : Control PTZ cameras. Requires additional setup (matching Baudrate, Protocol, ID, etc) for proper function.
3. **PTZ CONTROL EXPAND/COLLAPSE** : Click to collapse or expand the PTZ Control panel.
4. **VIDEO QUALITY** : Indicates the quality of the camera preview. This is not the actual quality of the stream setting. The camera preview will only be a low-res MJPEG regardless of the camera's stream profile settings.
5. **CAMERA SELECTOR** : Use the drop-down box to select the desired camera to preview.
6. **FULL SCREEN** : Click to expand the window to full screen. Hit the Full Screen button again, or the Esc key on the keyboard to return to the standard view.
7. **ALARM STATUS** : Click to display information about the current state of connected Alarm inputs/outputs, Motion Detection and Video Loss.
8. **NETWORK STATUS** : Click to display network information about the encoder.
9. **ALARM & NETWORK EXPAND/COLLAPSE** : Click to collapse or expand the Alarm & Network Status panel.
10. **ALARM & NETWORK PANEL** : Displays current network status and connected clients.
11. **DATE & TIME** : Displays the current date/time at the encoder.
12. **WEB VIEWER SETTINGS** : Settings for the web viewer display, most settings, besides Language, are not user adjustable.
13. **USER** : Displays the currently logged in user name.
14. **LOG OUT** : Click to end the session and log out.

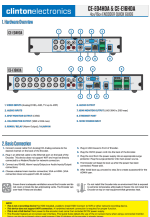
*PTZ CONTROL NOTE: Depending on the camera type, camera adjustments can be made remotely via coaxial control. The Protocol setting should be set to Coaxitron in the PTZ Setup menu (Camera/ PTZ Setup). This function not supported on all cameras.

- a. Click the Home icon to enter the camera's OSD menu. Click the Up/Down arrows to navigate. Click the Home button to enter a sub-menu.
- b. If the camera supports motorized zoom, click the Zoom +/- buttons to adjust the zoom of the lens.

If you need further help call Clinton Electronics Technical Support at 800-549-6393, Monday-Friday BAM-SPM (CST).

*Information in this document is subject to change without notice.

Documents / Resources

	<p>clinton electronics CE-E04HDA 4CH-16CH Encoder [pdf] User Guide CE-E04HDA 4CH-16CH Encoder, CE-E04HDA, 4CH-16CH Encoder, Encoder</p>
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Manuals+.