SEVEONTECH



# **User Manual**



Seyeon Tech Co., Ltd www.edgehandler.com

# **Safety Warnings and Cautions**

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

- Make sure to unplug the power cord while installing the unit
- Do not connect several devices to one power adaptor as adaptor overload may cause overheating, electric shock or fire hazard.
- Input voltage for operation of the unit shall be within the specified voltage range (100 ~ 240V AC) ±10% Maximum, do not use the outlet for connecting the high power consumption products such as the heater, air conditioning etc.
- Ensure unit is installed in a well-ventilated, dust-free environment and NOT in high-humidity environment.
- A strong shock or vibration may cause damage of unit
- This equipment has been evaluated for its suitability for use in a Commercial environment. If used in a home environment, there is a Risk of radio interference.
- Avoid installation of unit where close to strong magnetic force, radio wave or wireless device such as Radio / TV.
- Do not place heavy objects on the unit and be careful no foreign substances in the unit.
- The interior of the unit is sensitive to static electricity so do not open the top cover, disassemble, repair or modify.
- If a strange sound or smell exists, unplug the unit immediately and contact your dealer or manufacturer
- Do not use the unit while the cover is open and Needs a proper air circulation system in a system operation room. Otherwise the unit might be damaged due to internal and/or elements of unit temperature rise.
- This equipment is for indoor use, and all the communication wiring is limited to inside of the building, or any similar word.
- The default ID and Password is "root" / "root" (case sensitive). To prevent identity theft damage, highly recommend to change your password periodically. User has responsibility for security and other problems caused by careless password management.

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Note that with respect solely to the GPL Software, no warranty is provided. We do not offer direct support for the distribution. This offer is valid for up to three years from the date of original purchase of the Product.

# Notification

This equipment has been evaluated for its suitability for use in a Commercial environment.

If used in a home environment, there is a Risk of radio interference.

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# **1. Product Description**

Edge Handler<sup>™</sup> is a hardware based remote control solution consisting of Adapter & Decoder. The Adapter can compress HDMI video signal and send it over the Internet to the Decoder. USB keyboard and mouse inputs can be received at the Decoder and passed to the Adapter over the IP network.



Any System using a video signal that can be converted to HDMI and using a USB type keyboard and mouse can be remotely controlled by installing an Edge Handler<sup>™</sup>.

In addition, up to 64 adapters can be monitored and managed with a single Decoder as shown below.



The EdgeHandler TM requires that an Adapter and a decoder be configured with at least one pair for remote controlling the connected system.

# 1.1 EHA200 (Adapter)

EHA200 is an Adapter that can compress/encode and transmit HDMI video signals. It allows to monitor live video on PCs, smartphones and tablet PCs connected to the Internet, and can be used for various applications such as the HDMI Extender.

When used with the EHD200 Decoder, the system connected to the Adapter can be remotely controlled by keyboard and mouse.

## **1.1.1 Package Contents**



# 1.1.2 Front Panel



Name	Description
HDMI-IN	A port to input HDMI video signals to be compressed and encoded and transmitted.
USB	A port for connecting a keyboard or mouse. USB hub may be used for connecting keyboard and mouse simultaneously. The keyboard and mouse connected here can be controlled via the Decoder.
Audio	3.5mm audio input terminal. Input audio can be output through the Decoder.
Alarm Out	A alarm output port can output the alarm signal input through the Decoder.
Reset	Factory reset switch. Press and hold this button for more than 15 seconds to start the Factory Default process. * Be careful, all settings including network settings will be returned to the factory default settings.

# 1.1.3 Rear Panel



Name	Description
RS-232	An RS-232 port used to upload software during product production.
Ethernet	An ethernet port for network connection.
DC 12V	A power connection port.

# 1.2 EHD200 (Decoder)

EHD200 is a Decoder that must be paired at least one of the EHA200 Adapter. In order words, the Decoder can decode the encoded video transmitted from one or more Adapters and display them on a connected monitor.

In addition, a USB keyboard and mouse can be connected to the Decoder to remotely control the systems connected to the Adapters as well as self-controlling.

# **1.2.1 Package Contents**



## **1.2.2 Front Panel**



Name	Description
Power LED	The LED lights up when the Decoder is powered up.
LISP Porto (v2)	Ports for keyboard and mouse connection, which allows to control the keyboard and mouse
	of the system connected to the EHA200 Adapter.
	Factory reset switch. Press and hold this button for more than 15 seconds to start the
Boost Button	Factory Default process.
Reset Bullon	* Be careful, all settings including network settings will be returned to the factory default
	settings.

# 1.2.3 Back Panel



Name	Description			
WAN	An ethernet port for network connection.			
LAN	An ethernet port for network connection.			
AUDIO IN	An audio input port			
LINE OUT	An audio Out port			
MIC	An microphone port			
VGA	D-Sub type VGA Video Out port, which supports 1080P Full-HD resolution output device (monitor, etc.). If the display device (monitor, etc.) does not support Full-HD because the output resolution of the NVR is fixed to Full HD (1080P), the image will be output but a part of the screen may not be displayed.			

	HDMI Video Out port supports 1080P Full-HD resolution output device (monitor, etc.).			
HDMI	Since the output resolution of the NVR is fixed to Full HD (1080P), if the display device (monitor, etc.) does not support Full-HD, no image is output.			
USB	A port for keyboard or mouse connection, which allows to control the keyboard and mouse of the system connected to the EHA200 Adapter			
DC 12V	A power connection port.			

# 2. Installation

# 2.1 Getting Started with EHA200 Adapter

1 Connect the Network Cable to the Ethernet port.



② Connect the HDMI output of the desired devices such as PC, NVR or DVR to the HDMI-IN port of the Adapter.



Connect the Keyboard/Mouse to the USB port of the Adapter.By using USB hub, keyboard and mouse can be used simultaneously.

4 4 Input power to the rear power input terminal using the inclueded power adapter to boot.





Whether or not the boot is completed is known by using the IP installer to discover the device.

(5) Assign an IP address to the device using the IP Installer software when booting is completed.

🧐 IP Installer (v:	3.8.0)						-		×
🔍 🝠 🧔 🞇 🥵 🜱 Filter : All									
Model 🛆	MAC address	IP address	IP Ту	Server name	HTTP port	Version	Sta	atus	
EHA-100	00306FE1E2EA	192.168.225.20	static	IP System	80	4.31-043-rp	Su	ccess	
EHD-200	00306F005DAA	192.168.225.16	static	IP System	80	4.31-103-rm	Su	ccess	

*IP Installer software can be downloaded from the link below. [IP Installer Software Download link]* 

For more information about the IP Installer software, please refer to the manual linked below. [IP Installer Guide – English link]

# 2.2 Getting Started with EHD200 Decoder



- ① Connect the network cable (RJ45 standard) to the WAN port.
- ② Connect the desired display device such as monitor or TV to the HDMI port.
- ③ Connect the keyboard and mouse to the USB ports.(The USB port consists of 2 ports on the front and 1 port on the back.)
- ④ Plug in the power using the includeded power adapter.



(5) Assign an IP address to the device using the IP Installer software.

	🍨 IP Installer (vä	3.8.0)					-	- 🗆	×
🔍 🍠 🎡 🔆 🥎 😵 💙 Filter : All									
	Model 🔿	MAC address	IP address	IP Ту	Server name	HTTP port	Version	Status	
I	EHA-100	00306FE1E2EA	192.168.225.20	static	IP System	80	4.31-043-rp	Success	
	EHD-200	00306F005DAA	192.168.225.16	static	IP System	80	4.31-103-rm	Success	

*IP Installer software can be downloaded from the link below. [IP Installer Software Download link]* 

For more information about the IP Installer software, please refer to the manual linked below. [IP Installer Guide link]

# 3. Using EHA200 Adapter

# 3.1 Accessing the EHA200 Adapter

Enter the IP Address or Domain Name of the Adatper at the address bar on a web browser.



We recommend Internet Explorer as a web browser for using Edge Handler<sup>™</sup> devices. The initial IP setting for the Edge Handler<sup>™</sup> device can be done through IP Installer software which can be found in the enclosed CD or software download page at FlexWATCH<sup>®</sup> Web Site <u>http://www.flexwatch.com/support/download/software.asp</u>

# 3.2 Live View Page

When connected to the Adapter via the web browser successfully, Live View Page will be displayed as shown below.



lcon	Menu	Description
<b></b>	Channel Control Bar	Show/Hide Channel Control Bar.
$\bigcirc$	PTZ Control Bar	Show/Hide PTZ Control Bar
<b>(</b> ))	Audio Control Bar	Show/Hide Audio Control Bar
	Full Screen	View in Full Screen. In full screen mode, Main Menu and Control Bars are hidden. To return to the default view, press ESC on your keyboard or select
<u> </u>		Exit Full Screen Mode after clicking the right mouse button.
1:1	Original Size	Displays the images to its actual size.
	Maintaining aspect ratio	Display NVR System information such as model number, firmware, and license.
•:•	Filling the Screen	Ignoring the ratio of the image and displays the image to the entire display area of the screen.
	Buffering/Drawing Mode	Use image buffer. / Smooth out the outline of the image.
	Maintaining aspect ratio	Display Smart Viewer information such as CPU, Memory, Bandwidth usage and Version and Build Date of the software.

#### **Admin Page** 3.3

All settings of the Adapter can be done via the (Web) Admin Page.



Change setting through the Admin Page is not necessary unless it is a significatly slower network.

(Web) Admin Page can be opened by clicking Admin in the upper right of the screen, and entering the IP and password in the authentication window that appears.



ber my credential

OK Cancel

×



The default user name and password is "root".

For more information on the Web Admin Page, refer to the Web Admin Page User's Manual. [Web Admin Page User Manual link]

# **3.4 Home**

On the home page that appears by clicking Home in the top right corner of the screen, model number and firmware version of the device are displayed as shown below.



# 4. Using EHD200 Decoder



To use the Decoder, at least one Adapter must be connected to the network. Up to 64 Adapters can be connected to a Decoder.

When the Decoder is booted up, live initial screen is displayed on the monitor connected to the Decoder.



# 4.1 Live Mode

Live mode is automatically activated after the Decoder is booted, and it can be activated at any time by clicking the Live Viewer icon



) on the top left corner on the screen.

Live mode supports monitoring and remote control of the systems connected to the Adapters registered with the Decoder.

# 4.1.1 Live Tool Bar



Live Tool Bar is located at the top of the Live Mode screen and it provides the following features.

Icon	Menu		Description		
	Server Control Bar		Show/Hide Server Control Bar.		
Q	Group Control Bar		Show/Hide Group Control Bar		
	PTZ Control Bar		Show/Hide PTZ Control Bar		
2	Audio Control Bar		Show/Hide Audio Control Bar.		
			Start/Stop Group Circulation.		
	Group Circulation		Group circulation time can be modified in editing menu of each group in the		
testander -			Group Control Bar. (Right Click on desired group)		
	Information		Display Decoder information such as model number, firmware, and license.		
			View in Full Screen.		
	Full Screen		In full screen mode, Main Menu and Control Bars are hidden.		
			To return to the default view, press ESC on your keyboard or select Exit Full		
			Screen Mode after clicking the right mouse button.		
1:1	Original Size		Displays the image to its actual size.		
	Maintaining aspect ratio		Displays the image to maximum size possible while maintaining the ratio of the image.		
	Filling the screen		Ignoring the ratio of the image and displays the image to the entire display area of the screen.		
			Select a split mode of Live Viewer.		
		Split Mode	e Note: Channels or ports position can be changed by Drag and drop with		
			wheel button of the mouse.		

# 4.1.2 Server Control Bar



All Adapters registered in the Decorder are listed on the server control bar as shown on the left.

Server Control Bar is located on the top left side of Live Mode screen and

it can be displayed or hidden by clicking Show/Hide Group Control



If the registered Adapters do not appear on the server control bar, please check the registration process again and do not forget to click the Apply icon on the configuration toolbar after registration to confirm that the changed registration information is applied to the Decoder.

#### 4.1.2.1 Server Tree

All Adapters registered in the Decoder are listed in the server tree of the server control bar. The server tree provides the following information:



- System (Decoder) name is displayed, which can be changed on the configuration mode.
- (2) Server (Adapter) name is displayed, which can be changed on the configuration mode. It facilitates the identification of each Adapter when manging multiple Adapters.
- ③ The name of the primary stream (port) of the Adapter is displayed, which can be changed on the setting page.
- ④ The name of the secondary stream (port) is displayed, which can be changed on the setting page.
- (5) The name of the tertiary stream (port) is displayed, which can be changed on the setting page.
- 6 The number of streams (ports) under the Adapter name indicates the number of multi-streams (ports) supported by the Adapter.

# 4.1.3 Group Control Bar

Default Group	
- 🖉 IP System-Camera 1	
- 🔊 IP System-Camera 1	
- 🖉 IP System-Camera 1	
IP System-Camera 1	

A group is a collection of multiple channels or video streams (ports) of the Adapters for live monitoring in one screen.

Up to 16 channels or ports can be registered in a single monitoring group and it can be generated as much as need.

When registration process is completed, primary streams (ports) for all registered Adapters are registered to Default Group automatically for convenience.

Group Control Bar is located on the middle left side of Live Viewer Page and it can be displayed or hidden by clicking Show/Hide

Group Control Bar Icon (



#### 4.1.3.1 Creaing / Modifing / Deleting Group

Group can be created as much as need through the Creating Group Window as shown below, and that can be opened by clicking **New** on the popup menu appears after right-click on the group root as shown on the right.

TO AN A CONTRACTOR OF A CONTRA	
Display Dual Stream	Mode
IP OSD Setting	•
- ☞ IP System-Camera 1	

Smart Viewer	Item	Description
Group Name Circulation 🗷 On Circulation Period 10 Sec(10~255)	Group Name	Name for the viewing group.
Create Group Cancel	Circulation	As known as auto sequence, the Decoder automatically switches between groups in sequence.
	Circulation Period	Set the time interval for auto sequence.

Default Group or Existing Group can be edited, deleted or copied. These functions are available via the popup menu that appears after right-click the desired group as shown on the right.

P System-C P System-C P System-Can	Delete Copy	

#### 4.1.3.2 Adding an Adapter in a Group

There are two ways to adding IP devices to the desired group.



After selecting the desired channel or stream (port) of the IP device in the server control window, **Drag & Drop** to the desired group as shown on the left.

Or **double click** the desired channel or stream(port) in the server control window after selecting the desired group.

## 4.1.4 Audio Control Window



Speaker volume level could be controlled by moving cursor of Speaker Volume control bar on the top of Audio control window.

Once the audio connection by clicking the Connect button is completed, microphone volume level is also adjustable by moving cursor of Microphone Volum Control Bar below the speaker volum control bar if the Adapter supports two-way audio.

Audio Control Window can be displayed or hidden by clicking *Show/Hide PTZ Control Bar* Icon (



The audio option of an Adapters must be enabled in advance to use audio. If the Audio is not Enabled, the following pop-up message will be appeared.



# 4.1.5 Ports (Channel)

Each port or channel in which the images of the registered adapter is displayed as below is called a port.

18.02.16 04:18:39 S S →		018.02.16 04:18:39
System-Lamera I		P System-Camera 1
10.02.10 04.10.39		2018.02.10 04.18.39

#### 4.1.5.1 Port Tool Bar



When mouse over each port or channel, the port toolbar appears as shown on the left.

lcon	Menu	Description
Ô	Snapshot	Captures the screen of the selected port.
8	Local Recording	Saves the video of the selected port.
$\rightarrow$	Remote Control	Remotely control the system connected to the selected port.

To exit remote control mode choosing one of two methods.

1. Press the double tab Print Screen key on the Key Board.



2. Press the double click of WHEEL BUTTON on the Mouse.



#### 4.1.5.2 Port Pop-up Menu



Right-clicking on each port or channel will bring up a popup menu as shown on the left.

Menu	Description
Pause	Pauses the screen on the selected channel.
Mute	Mutes the audio of the selected channel.
Delete Channel	Delete the selected channel. (The channel will
Delete Channel	be deleted from the group control bar.)

# 4.2 Configuration Mode

All settings of the Decoder are provided thought the **Configuration Mode**.

imple Registration IP Device	Preference	Apply					
IP Device, Port Configuration	ID	IP Device	lane	IP Address	HTTP Port	Vendor	Model
D IP System	1 0	IP System	192	.168.1.112 86	e Ed	dgeHandler Adapter	Triple Stream Model
© Camera 2	2 1	IP System	192	.168.1.110 80	e Ed	dgeHandler Adapter	Triple Stream Model
P III IP System	3 2	IP System	192	.168.1.107 80	e Ed	dgeHandler Adapter	Triple Stream Model
- @ Camera 1 - @ Camera 2	4 3	IP System	192	.168.1.111 86	e Ed	dgeHandler Adapter	Triple Stream Model

# 4.2.1 IP Device Configuration

Provides settings related to Adapter registration.

Configurations of the sub-menu or pull-down menu depend on the selection of the server control window in Configuration Mode as shown below.

P Device Configurati	on Por	t Config	uration
Simple Registration			-
Add	6	200	1
Delete	_	13	1.2
Simple Registration	IP	Device	Prefer
= IP Device, Port Co	nfigura	tion	
🗁 🌐 IP System			
🖶 🛄 IP System			
Camera 1			
Camera 2	<u> </u>		
- Camera :	5		
P III IP System			
Camera I			
Camera 2	Ś		
Camera :	5		
P III IP System			
Camera I			
Camera 2	<u> </u>		
Camera :	5		
IP System			
Camera I			
Callera 2	<u> </u>		
- 🥵 Camera 🗄	5		

dd		ſ
elete 🕇	13	6
Simple Repistration	IP Device	Prefer
IP Device, Port Conf	iguration	
III IP System		
IP System		
Camera I		
Callera 2		
Gamora 1		
Camera 7		
Camera 3		
B-DD IP System		
- @ Camera 1		
- @ Camera 2		
- @ Camera 3		
E-D IP System		
- @ Camera 1		
Camera 2		
Camera 3		



#### 4.2.1.1 Simple Registration

If Adapters are in the same network as the Decoder, registration is available through the *Search IP-device* window which can be open by clicking *Simple Registration* icon or go thourgh the menu bar.



#### - Search IP Device Window -

ewly searche	d IP Device	TD Address	_		Regis	tered IP	Device	News	TD Address	
1 EHA100	ID System	10.0.0.126	_		10	10	Triple Store	TD System	10 0 0 120	Nowly
EINATOO	IP System	10.0.0.120			10		Triple St	TP System	10.0.0.129	Newly
2 EHA100	IP System	10.0.0.131			21		Triple St	IP System	10.0.0.130	Newly
				Register All >> Register Selected > < Cancel Selected << Cancel All	1					×
11 10.0.0.	LAN LAN	. 172.10.0.254		Search IP Device			Set	up iP Addres	5	

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Item	Description
Network Interface for Searching : O WAN O LAN • ALL	Selects network interface WAN, LAN or both to search Adapters.
Newly searched IP Device       Model     Name     IP Address       1     EHA100     IP System     10.0.0.126       2     EHA100     IP System     10.0.0.131	Newly Searched IP-Device section on the left of Simple Registration window lists the searched Adapters that are not registered in the connected network.
Registered IP Device         ID       Model       Name       IP Address       St         1       0       Triple St       IP System       10.0.0.129       Newly         2       1       Triple St       IP System       10.0.0.130       Newly	Registered IP-Device section on the right of Simple Registration window lists the Adapters that are already registered and moved by user from Newly Searched (left) section for registration.
Register All >>	Moves all Adapters found from the Newly Searched IP-Device (Left) to the Registered IP-Device section (Right).
Register Selected >	Moves selected Adapters to the right section or list.
< Cancel Selected	Moves selected Adapters back to the Newly Searched IP-Device list from the Registered IP- Device list.
<< Cancel All	Moves all Adapters back to the Newly Searched IP-Device list from the Registered IP- Device list.
WAN : 10.0.0.30 LAN : 172.16.0.254	Displays current WAN and LAN IP Addresses of the Decoder.
Search IP-device	Searchs for available Adapters on the network connected to the Decoder.
Cancel Searching	Cancel the search.
IP Start Address	IP addresses can be assigned to the selected cameras in the Registered IP-Device list. For more information about the feature, Please refer to next page 4.2.1.1.1 Setup IP Address
Register	Save right list of the registered Adpaters.
Cancel	Close the search window without saving.

#### 4.2.1.1.1 Setup IP Address

IP address can be assigned to the Adapters without any software or tools.

To assign IP addresses, select desired Adapters in the right list, and then click Setup IP Address at bottom of the list as shown below.

rch and Register		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~							
twork interface for Se	earching :	O WAN O LAN	• ALL							
wly searched IP Device	2				Regist	ered IP	Device		- MI	
Model Na	ame	IP Address	]			ID	Model	Name	IP Address	St
					10		Triple St…	IP System	10.0.0.129	Newly
					2 1	_	Triple St…	IP System	10.0.0.130	Newly
					3 2				10.0.0.126	Newly
					4 3		Triple St…	IP System	10.0.0.131	Newly
				Degister All						
				Register Selected						
				Kegister Selected /						
				( Cancel Selected						
				(( Cancel All						
					1				-	-,
V : 10.0.0.137	LAN :	172.16.0.254		Search IP Device			Set	up IP Addres	is l	
							L Sec			
									Register	Cancel



If a keyboard is connected, multiple Adapters can be selected by clicking mouse while holding down the ctrl or shift key.

When Setup IP Start Adddress window appears, Enter desired **Starting IP address** in the field of WAN/LAN.



Camera 3 = 192.168.1.102

Item	Description	
WAN 10 . 0 . 0 . 100 (0~222)	Enter starting IP address for the selected Adapters which found in WAN port.	
LAN 172.16.0.100(0~222)	Enter starting IP address for the selected Adapters which found in LAN port.	
Start with the IP address entered is the number of the last oc	tet Ex) If starting IP is "192.168.1.100",	
increases by 1 and is assigned to each camera.	Camera 1 = 192.168.1.10 <b>0</b>	
	Camera 2 = 192.168.1.101	

#### 4.2.1.2 Add (Manual IP Device Registration)

Manual IP device registration (Add IP-Device) window for entering IP device information manually can be opened by clicking "Add"

on IP-device Configuration pull down menu as shown below.

Simple Registration		
Add		-
Delete	<b>2</b>	3
Simple Registration	IP Device	Prefer
P Device, Port Cont	1guration	
🕂 🔟 IP System		
- 🥯 Camera 1		
Camera 2		
E III ID System		
Camera 1		
- 🖉 Camera 2		
🖉 🖉 Camera 3		
🖻 💷 IP System		
Camera 1		
Camera 2		
Camera 1		
Camera 2		



- Add IP Device Window -

	Add IP Device		
nput IP Device Info			
ID		+	
Vondor	EdapHandlor A	lantor	
Venuor	Cugenanuier Ac	Tapter 1	
Model	Select Model		
IP Address			
HTTP Port			
Login ID			
Login Password			
Confirm Password			
VS Module ID	0	*	
Collect IP Device	Info Collec	t	
Name			
Law Danded date	-		
I COME METAPOLISM TO THE PO			
Select Rsolution supporte	d by IP Device	176 x 144 - 160 x 112 367 x 268 - 320 x 240	
Select Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half OI (Half VGA) DI (VGA)	176 x 144 - 166 x 112 352 x 288 - 329 x 249 794 x 288 - 649 x 249 794 x 576 - 649 x 489	
Select Rsolution supporte	d by IP Device QCIF-(QQVGA) CIF-(QQVGA) Half D1 (Half VGA) D1 (VGA) SVGA	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 288 - 640 x 240 294 x 576 - 640 x 480 800 x 600 - 720 x 480	
Select Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half D1 (Half VGA) D1 (VGA) SVGA XGA	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 268 - 640 x 248 794 x 575 - 649 x 480 800 x 609 - 720 x 489 1024 x 768 - 960 x 720	
Select Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half D1 (Half VGA) D1 (VGA) SVGA XGA HD728 (720P)	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 268 - 649 x 240 704 x 576 - 640 x 480 800 x 600 - 720 x 489 1024 x 768 - 960 x 720 1280 x 720	
ielect Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half DI (Half VGA) DI (VGA) SVGA XGA HD720 (720P)	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 288 - 649 x 240 704 x 576 - 649 x 480 800 x 600 - 770 x 480 1024 x 768 - 960 x 729 1280 x 720	
Select Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half DI (Half VGA) DI (VGA) SVGA XGA HD720 (720P) 2. □ Port3	176 x 144 - 160 x 112 352 x 288 - 328 x 248 784 x 288 - 649 x 249 784 x 576 - 649 x 489 889 x 669 - 720 x 489 1824 x 768 - 960 x 729 1288 x 729 □ Port4	
Check PTZ Port	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half DI (Half VGA) DI (VGA) SVGA XGA HD720 (720P) 2 Port3	176 x 144 - 160 x 112 352 x 288 - 328 x 248 784 x 288 - 649 x 248 794 x 576 - 649 x 489 889 x 669 - 770 x 489 1824 x 768 - 960 x 729 1288 x 729 □ Port4	
Check PTZ Port	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half DI (Half VGA) DI (VGA) SVGA XGA HD720 (720P) 2. Port3	176 x 144 - 166 x 112 352 x 288 - 328 x 248 784 x 288 - 648 x 248 764 x 576 - 649 x 489 869 x 669 - 772 x 489 1624 x 768 - 960 x 729 1288 x 729 □ Port4	
ielect Rsolution supporte ielect Rsolution supporte ielect PTZ Port ieleck PTZ Port ieleck PTZ Port ieleck PTZ Port ielect NAT Service HTTP Port ielect	d by IP Device QCIF (QQVGA) CIF (QVGA) Half D1 (Half VGA) D1 (VGA) SVGA XGA HD720 (720P) 2.  Port3	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 258 - 640 x 240 704 x 576 - 640 x 480 809 x 609 - 720 x 489 1024 x 768 - 960 x 729 1280 x 720 □ Port4	
Check PTZ Port	d by IP Device QCIF (QQVGA) CIF (QQVGA) Bait OI (Half VGA) DI (VGA) SVGA XGA HD720 (720P) 2Port3.	176 x 144 - 166 x 112 352 x 288 - 320 x 240 794 x 288 - 648 x 248 794 x 576 - 649 x 480 800 x 600 - 720 x 480 1924 x 768 - 960 x 720 1286 x 720 □ Port4	
ielect Rsolution supporte	d by IP Device QCIF (QQVGA) CIF (QQVGA) Haif OI (Haif VGA) DI (VGA) SVGA XGA HD720 (720P) 2 Port3	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 288 - 640 x 248 704 x 576 - 640 x 480 800 x 600 - 720 x 480 1924 x 768 - 960 x 720 1280 x 720	
Check PTZ Port	d by IP Device QCIF (QQVGA) CIF (QQVGA) Half OI (Half VGA) DI (VGA) SVGA XGA HD720 (720P) 2.	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 288 - 640 x 240 704 x 576 - 640 x 480 800 x 600 - 720 x 480 1924 x 768 - 960 x 720 1280 x 720	
Con Bandwiddth	d by IP Device QCIF-(QQVGA) CIF-(QQVGA) Half D1 (Half VGA) D1 (VGA) SVGA XSGA HD720 (720P) 2	176 x 144 - 160 x 112 352 x 288 - 320 x 240 704 x 288 - 640 x 240 294 x 576 - 640 x 480 800 x 600 - 720 x 480 1924 x 768 - 950 x 720 1280 x 720 □ Port4	

Item	Description
ID	Device ID is registration number of the Decoder for an Adapters. According to the order of registration of Adapters, the ID number is assigned in the order from 0. If selecting ID that already registered and assigned, registration information will be displayed. In this case, modification of registration information is available.
Vender	Selcet EdgeHandler Adapter option.
Model	Select Model based on the number of streams (ports) or channels supported by Adapter.
IP Address	Enter IP Address or domain name of the Adapter.
HTTP Port	Enter HTTP port number of the Adapter.
Login ID	Enter login ID of the Adapter.
Login Password	Enter login Password of the Adapter.
Confirm Password	Enter the password again to confirm.
VS Module ID	Select 0 for VS Module ID option.
Collect IP-Device Information	Download the Adapter information.
Name	Enter the Adapter name for identification.
Low Bandwidth	Select if network speed is slow.
Select the Resolution Supported by IP-Device	Select resolutions supported by the Adapter.
Check PTZ Camera	If the Adapter supports Pan, Tilt, or zoom, select channel or steam (port) for controlling.
Auto NAT Service	Select whether to use NAT function. NAT function allows direct connection to registered Adapter via the Decoder. The ports used for direct Adapter connection are automatically mapped by the Decoder when NAT is enabled.
Register	Save entered registration information and close the window.
Cancel	Close the window without saving.

#### 4.2.1.3 Edit (Editing Adapter Inforamtion)

P Device Configuration	Port Config	uration
Simple Registration	_	
Edit		ſ
Delete		6.5
	<b>A</b> C.	~
Simple Registration	IP Device	Prefe
🖉 Camera I		
E D IP System		_
w callera i		
- @ Camera 2		
- 🖉 Camera 2		
- 🕫 Camera 2 - 🕫 Camera 3		
← ☞ Camera 2 ☞ Camera 3 ☞ Ⅲ IP System		
← @ Camera 2		
← @ Camera 2		
<ul> <li></li></ul>		
- ☞ Camera 2		
- € Camera 2 - € Camera 3 ⊡ II System - € Camera 1 - € Camera 2 - € Camera 3 ⊡ II System - € Camera 1		
<ul> <li>✓ Camera 2</li> <li>✓ Camera 3</li> <li>✓ Camera 3</li> <li>✓ Camera 1</li> <li>✓ Camera 2</li> <li>✓ Camera 2</li> <li>✓ Camera 3</li> <li>✓ Camera 1</li> <li>✓ Camera 1</li> <li>✓ Camera 1</li> <li>✓ Camera 1</li> <li>✓ Camera 2</li> </ul>		
Camera 2 Camera 3 Camera 3 Camera 3 Camera 1 Camera 2 Camera 3 IP System IP System Camera 1 Camera 1 Camera 2 Camera 3 Camera 3		
← ⑦ Camera 2		
Camera 2 Camera 3 Camera 3 Camera 3 Camera 1 Camera 2 Camera 2 Camera 3 DIP System Camera 1 Camera 2 Camera 2 Camera 3 DIP System DIP System Camera 3		
Camera 2 Camera 3 Camera 3 Camera 3 Camera 1 Camera 1 Camera 2 Camera 3 Camera 3 Camera 1 Camera 1 Camera 1 Camera 3 Camera 3 Camera 3 Camera 3 Camera 3 Camera 1 Camera 1 Camera 2 Ca		

To modify the IP information of registered Adapter, select desired Adapter in Server Control Window and click edit on IP-Device Configuration pull down menu.

- Edit IP Device Window -

		Edit IP Device		
nput IP Device	Info			
ID		0	*	
Vendor		EdgeHandler Ad	apter 👻	
Model		Triple Stream	Nodel -	
IP Addr	955	10 0 0 101		
WTTD Do	**	80		
Login ID		00	Toot	
		root		
Login P	Login Password			
Confirm	Password			
VS Modu	le ID	Θ		
Collect	IP Device Info	Collec	t	
Name		IP System		
Low Ban	dwidth			
elect Rsolution	supported by QCI CIF	IP Device F (QQVGA) (QVGA)	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 249	ŕ
elect Rsolution 6 7 8 9 9 9	supported by QCI Hal D1 SVG XGA	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720	<u>•</u>
elect Rsolution 8 9 1 9 1 1	supported by QCI Hal D1 SVG XGA HD7	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P)	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	1
elect Rsolution 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 0 1 9 0 1 9 0 1 1 9 1 9	supported by QCI HaI D1 SVG XGA HD7	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P) Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	- - -
elect Rsolution	supported by QCI Hal D1 SVG XGA HD7 Port2 vice	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P)  Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	* *
elect Rsolution	supported by QCI Hal D1 SVG XGA HD7 Port2 Vice	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P) Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	4
elect Rsolution	a supported by QCI Hal D1 SVG XGA HD7 Port2 Vice	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P) Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	-
elect Rsolution B B C C C C C C C C C C C C C	supported by QCI Hal D1 SVG XGA HD7 Port2 Vice 10080 10023	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P) Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	-
elect Rsolution	a supported by QCI CIF Hal D1 SVG XGA HD7 Port2 //ice [1988] [1962] [1962]	IP Device F (QQVGA) (QVGA) f D1 (Half VGA) (VGA) A 20 (720P) Port3	176 x 144 ~ 160 x 112 352 x 288 ~ 320 x 240 704 x 288 ~ 640 x 240 704 x 576 ~ 640 x 480 800 x 600 ~ 720 x 480 1024 x 768 ~ 960 x 720 1280 x 720	4

Item	Description
ID	Device ID is registration number of the Decoder for an Adapters. According to the order of registration of Adapters, the ID number is assigned in the order from 0. If selecting ID that already registered and assigned, registration information will be displayed. In this case, modification of registration information is available.
Vender	Selcet EdgeHandler Adapter opriton.
Model	Select Model based on the number of streams (ports) or channels supported by Adapter.
IP Address	Enter IP Address or domain name of the Adapter.
HTTP Port	Enter HTTP port number of the Adapter.
Login ID	Enter login ID of the Adapter.
Login Password	Enter login Password of the Adapter.
Confirm Password	Enter the password again to confirm.
VS Module ID	Select 0 for VS Module ID option.
Collect IP-Device Information	Download Adapter information.
Name	Enter Adapter name for the identification.
Low Bandwidth	Select if network speed is slow.
Select the Resolution Supported by IP-Device	Select resolutions supported by Adapter.
Check PTZ Camera	If the Adapter supports Pan, Tilt, or zoom, select channel or steam (port) for controlling.
Auto NAT Service	Select whether to use NAT function. NAT function allows direct connection to registered Adapter via the Decoder. The ports used for direct Adapter connection are automatically mapped by the Decoder when NAT is enabled.
Register	Save entered registration information and close the window.
Cancel	Close the window without saving.

#### 4.2.1.4 Delete (Deleting registered Adapter)

P Device Configuration	Port Config	uration
Simple Registration	$\sim$	
Add		1
Delete	23	1
Simple Repistration	IP Device	Prefe
IP Device, Port Conf	iguration	
= 💵 IP System		
IP System		
Camera 1		
amera 3		
🕀 💷 IP System		
- 🖉 Camera 1		
– 🕫 Camera 2		
🗌 🥏 Camera 3		
IP System		
Camera 3		
B-DD IP System		
- 🖉 Camera 1		
- 🖉 Camera 2		

To delete registered Adapter from the Decoder, select desired Adapter in Server Control Window and click delete on IP-Device Configuration pulldown menu.

# 4.2.2 Port Configuration

Set port name for the identification of each Adapter port (stream) or channel within the alphanumeric 21 characters or 10 unicode characters.

ame	Camera 1
ne Port Name can	be 21 alpha numeric or 10 unicode

The port name set here will apply to the server control window, bottom of the live screen as shown below.



# 4.2.3 Preference Configuration

#### 4.2.3.1 System Time

Set the time of the Decoder.

Applying the correct date and time is strongly recommended to avoid any confusion or errors caused by time difference.

	Item	Description
Setup System Time	Date	Enter today's date.
Date (yyyy/mm/dd) 2016 / 9 / 13	Time	Enter the current time.
(hh:mm:ss) 14 : 51 : 02	Time Zone	As needed, time zone can be changed after check mark on <b>Change Time Zone</b> .
Service     Enable     Disable       NTP Server Addre:     pool.ntp.org       Period     86400     Sec (Default:86400, 600-86400       NTP Server Time     Get NTP Server Time	Service	Select whether to use NTP service. NTP (Network Time Protocol) is a protocol for synchronizing the clocks of the Network devices. With NTP service, the Decoder can be synchronized to an internet time server.
0k Cancel Refresh	NTP Server Address	Enter IP address or domain of NTP server.
	Period	Enter the NTP synchronization cycle of the server in units of seconds. Default value is 86400 seconds = 24 hours.
	NTP Server Time	Sync the time of Decoder with NTP server.

#### 4.2.3.2 Admin Password

Set administroator's password of the Decoder.

The administrator password must be 4-23 alphanumeric characters.



Administrator's password should be changed occasionally to secure the Decoder.

urrent Password	
lew Password	
Confirm Password	
he password must be alp	oha numeric, within 4 ~ 23 characters.
	Apply Cancel

#### 4.2.3.3 Access Level

Select whether or not to use password authentication when accessing Live View through a web browser (Smart Viewer).

## 4.2.3.4 IP Address

• Static	O DHCP	
IP	10.0.0.10	
Netmask	255.255.255.0	
Gateway	10.0.0.1	
DNS1	10.0.0.1	
DNS2	10.0.0.1	
DNS2	10.0.0.1	

**WAN** port is used to Internet or remote access connection. Select IP assigning type, then enter IP information if static is slected.

# Setup Network IP 172.16.0.254 Netmask 255.255.0.0 OK Cancel

• Full Access (See liveview, playback without any permit)

○ Limited Access (Only with permit can see liveview, playback)

**LAN** port is used to configure private network for Adapters. Enter an IP for the Decoder and Netmask for subnetting.

#### 4.2.3.5 Web Port

Set Web Port for remote acces.

Web port number can be used in 80~65535.

Web Port	80			
(Default:80,	80~65535)			
User for web	access an	d search		
			Cance	1

Cancel

0k

#### 4.2.4 Utility

#### 4.2.4.1 Update

Updates Decoder firmware through USB Flash Drive.

Be sure to check the following before updating the firmware.

- Copy the firmware file to the root of USB
- USB Flash Drive should be connected before opening the Firmware Update Window.

lease select firmwa	re file
f_hd-4.31-064-ro.ta	ar.gz
	OK Cancel

#### 4.2.4.2 No Port Image

Change no image
Please select image file  capture0.jpg capture1.jpg capture10.jpg capture12.jpg capture12.jpg capture13.jpg capture13.jpg capture14.jpg capture15.jpg capture15.jpg capture14.jpg captur
Capture16.jpg Capture17.jpg Capture18.jpg Capture19.jpg Capture20.jpg Capture20.jpg Erase Image OK Cancel

<"No Image" Update Window>

<"No Image" Update Window>

No camera image is displayed on the blank channel or port as above on the live mode, which can be changed by updating the image file via USB drive.



The image file must be copied to the root directory of the USB drive, and the USB drive must be connected to the Decoder before opening the Image Update window.

## 4.2.4.3 Factory Default

Restore all the settings to default except the network setting.



#### 4.2.4.4 Reboot

#### Reboots the Decoder.



#### 4.2.4.5 Log Out

Log out of the Decoder.



#### 4.2.4.6 System Information

Display Decoder information such as Model Number, Firmware Version, Support Vender.

Model	:	EH_HI3536	
System Version	:	4.31-119-rm	
Vendor	:	Single Vendor	
			ОК

Edge Handler™ User Manual

#### 4.2.4.7 Language

Language	English 💌
Locale	English(ROMAN8) 💌
	OK Cancel

ltem	Description
Language	User Interface language of the NVR System can be changed.
Region	Date and time formats can be changed by regional setting.

#### 4.2.4.8 UsbHidDevice

Displays the USB type HID devices connected to the Decoder.

rt USB Optical Mouse	
ACHIP USB Keyboard	
	Davies Counch
	Device Search
OK Cancel	

#### 4.2.5 Remote Control

#### 4.2.5.1 Motion Detection

Remote Motion detection setting of the Adapter is available.

Item	Description
• Enable O Disable	Select wether to use motion detection feature in Adapter.
	Select or deselect motion detection area using mouse. Green – indicates motion detection area. Pink – indicates non-motion detection area.
Check All Uncheck All	Set the whole area as motion detection area or non-motion detection area.
Motion Sensitivity 🕘 🕘	Set motion sensitivity level between -100 and 100. The higher the number, the more sensitive to changes in the image.
ОК	Apply changes.
Cancel	Close window without saving.
Restore	Restore to the previous setting.

# 4.3 Web Access

Enter the IP Address or Domain Name of the Decoder at the address bar on a web browser.

<u>=</u>	

We recommend Internet Explorer as a web browser for using Edge Handler<sup>™</sup> devices. The initial IP setting for the Edge Handler<sup>™</sup> devicse can be done through IP Installer software which can be found in the enclosed CD or software download page at FlexWATCH<sup>®</sup> Web Site <u>http://www.flexwatch.com/support/download/software.asp</u>

# 4.3.1 Live View Page

When connected to the Decoder via the web browser successfully, Live View Page will be displayed as shown below.

http://10.0.0.10	0/app/live/sim/single.asp			✓ Ø Search		· 유 · · · · · · · · · · · · · · · · · ·
Network video system - Liv.				H	lome   Live View	Admin
P 📀 🐠 🐺 🛛	II 🖬 🖬 🕎	0				
<u>김 재명1</u> Cam1 1 재명1 전 60	NO VIDEO	Cam2	N/A	Cam3 © ፼ N/A	Cam4 © 100	N/A
2 채널 2 3 채널 3						i
프 모든 채널 Cam5 로 ∞	N/A	Cam6 E 89	N/A	Cam7 IE et N/A	Camê E 199	N/A 🔆
Cam9 6 66	N/A	Cam10	N/A	Cam11 10 85 N/A	Cam12 © ®	N/A
Cam 12 G m	s N/A	Cam14	N/A	Cam15 © ፼ N/A	Cam16 ፩ ፼	N/A **
Butlik	n Modula (- Bringes Sire	■() Audio 1	01/22/20	018 PM 04:22:02 _ 100%		Ŕ

Icon	Menu	Description
	Channel Control Bar	Show/Hide Channel Control Bar.
$\bigcirc$	PTZ Control Bar	Show/Hide PTZ Control Bar
	Audio Control Bar	Show/Hide Audio Control Bar
		View in Full Screen. In full screen mode, Main Menu and Control Bars are
	Full Screen	hidden. To return to the default view, press ESC on your keyboard or select
		Exit Full Screen Mode after clicking the right mouse button.
11	Original Size	Displays the images to its actual size.
Ĵ	Maintaining aspect ratio	Display NVR System information such as model number, firmware, and license.
	Filling the Screen	Ignoring the ratio of the image and displays the image to the entire display area of the screen.
	Buffering/Drawing Mode	Use image buffer. / Smooth out the outline of the image.
	Maintaining aspect ratio	Display Smart Viewer information such as CPU, Memory, Bandwidth usage and Version and Build Date of the software.

## 4.3.2 Admin Page

All settings of the Decoder can be done via the (Web) Admin Page.

(Web) Admin Page can be opened by clicking **Admin** in the upper right of the screen, and entering the IP and password in the authentication window that appears.

		Home   Live View   Admin		
Yo	ır web browser i	s your remote eye		
		RexWATCH makes everything possible ith its flexibility in IP surveillance	Windows Security iexplore.exe The server 100.00.15 is asking for your user name and password. The se reports that it is from GoAhead.	× :rver
	Network Camera Network Video Revo Other Section Child Application Server solution Utilities	er Vider	Password  Remember my credentials  OK Canc	el



The default user name and password is "root".

For more information on the Web Admin Page, refer to the Web Admin Page User's Manual. [Web Admin Page User Manual]

#### 4.3.3 Home

On the home page that appears by clicking Home in the top right corner of the screen, model number and firmware version of the device are displayed as shown below.



40

# 5. Appendix

# 5.1 Specification

# 5.1.1 EHA200

Video	
Max Streaming Pate	Up to 60fps @ FULL-HD
Max. Streaming Rate	Triple streaming
Supported Codec	H.264 / H.265(Option) video compression
Connections	Up to Four concurrent connections from EHD200
Interface	
Video Input	1 HDMI – <b>1080p60p only</b>
Audio In/Out	1 Speaker, 1 Microphone
Alarm	1 Alarm output
Serial Port	1 Serial Port (reserved for future use)
Peripherals	1 USB Port
Network	
Ethernet	10/100/1000-base-T Ethernet (auto sensing)
Dynamic IP	DDNS support
	ID/Password protection
Security	DRM based proprietary secure key distribution
	protocol (to be released )
Miscellaneous	Web Interface
Hardware	
Approvals	KC, FCC, CE, RoHS
Working Condition	0°C ~ +50°C (32°F ~ 122°F), 10% ~ 80% RH
Power	12VDC @ 1A, Max. 12W
Dimension	107(W) x 83(D) x 26(H) mm
Weight	165g

# 5.1.2 EHD200

Video	
Decoding	Max 30fps x 16 channels @ 1080p
Supported Codec	H.264 / H.265(Option) video decompression
Display Mode	Max 4 x 4 display mode
Display Mode	Group display mode
Re-streaming	Supports Video Re-streaming
Interface	
Video Out	1 HDMI
Audio In/Out	1 Speaker, 1 Microphone
	(LINE IN port : Reserved)
Peripherals	2 USB Port for Mouse, Keyboard etc
Network	
Ethernet	2 x 10/100/1000-base-T Ethernet
Ethernet	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution
Ethernet Security	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option)
Ethernet Security Miscellaneous	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface
Ethernet Security Miscellaneous	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections
Ethernet Security Miscellaneous Hardware	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections
Ethernet Security Miscellaneous Hardware Approvals	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections KC, FCC, CE, RoHS
Ethernet Security Miscellaneous Hardware Approvals Working Condition	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections KC, FCC, CE, RoHS 0°C ~ +50°C (32°F ~ 122°F), 10% ~ 80% RH
Ethernet Security Miscellaneous Hardware Approvals Working Condition Power Consumption	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections KC, FCC, CE, RoHS 0°C ~ +50°C (32°F ~ 122°F), 10% ~ 80% RH MAX DC 600mA
Ethernet Security Miscellaneous Hardware Approvals Working Condition Power Consumption Power Supply	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections KC, FCC, CE, RoHS 0°C ~ +50°C (32°F ~ 122°F), 10% ~ 80% RH MAX DC 600mA 12VDC @ 1A, Max 12 Watt
Ethernet Security Miscellaneous Hardware Approvals Working Condition Power Consumption Power Supply Dimension	2 x 10/100/1000-base-T Ethernet DRM based proprietary secure key distribution protocol (option) Web interface Max 16 connections KC, FCC, CE, RoHS 0°C ~ +50°C (32°F ~ 122°F), 10% ~ 80% RH MAX DC 600mA 12VDC @ 1A, Max 12 Watt 195(W) x 150.2(D) x 38(H) mm

# 5.2 Product Overview

# 5.2.1 EHA200



## 5.2.2 EHD200











# <mark>Edge</mark> Handler<sup>™</sup>

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