

# HDMI & VGA Video Encoder

User's Manual

**DP-HE1201** 



# Before reading this manual

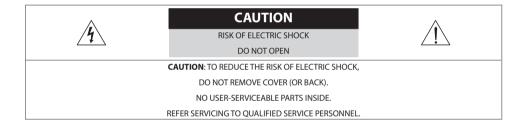
This is a basic operation manual for use of an IDIS HDMI & VGA Video Encoder. Users who are using this product for the first time, as well as users with experience using comparable products, must read this operation manual carefully before use and heed to the warnings and precautions contained herein while using the product. Safety warnings and precautions contained herein while using the product. Safety warnings and precautions contained herein while using the product and thereby prevent accidents and property damage and must be followed at all times. Once you have read this operation manual, keep it at an easily accessible location for future reference.



• The manufacturer will not be held responsible for any product damage resulting from the use of unauthorized parts and accessories or from the user's failure to comply with the instructions contained in this manual.

- It is recommended that first-time users of this product and individuals who are not familiar with its use seek technical assistance from their retailer regarding product installation and use.
- If you need to disassemble the product for functionality expansion or repair purposes, you must contact your retailer and seek professional assistance.
- Both retailers and users should be aware that this product has been certified as being electromagnetically compatible for commercial use. If you have sold or purchased this product unintentionally, please replace with a consumer version.

# **Safety Precautions**





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# **Safety Precautions**

# **Important Safeguards**

#### 1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

#### 2. Retain Instructions

The safety and operating instructions should be retained for future reference.

#### 3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

#### 4. Attachments

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

#### 5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

#### 6. Ventilation

Place this equipment only in an upright position. This equipment has an open-frame Switching Mode Power Supply (SMPS), which can cause a fire or electric shock if anything is inserted through the ventilation holes on the side of the equipment.

#### 7. Accessories

Do not place this equipment on an wall or ceiling that is not strong enough to sustain the product. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

#### 8. Power Sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company. You may want to install a UPS (Uninterruptible Power Supply) system for safe operation in order to prevent damage caused by an unexpected power stoppage. Any questions concerning UPS, consult your UPS retailer.

#### 9. Power Cord

Operator or installer must remove power and TNT connections before handling the equipment.

#### 10. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges. If thunder or lightning is common where the equipment is installed, use a surge protection device.

#### 11. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

#### 12. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

#### 13. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

#### 14. Damage requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or the plug has been damaged.
- B. If liquid is spilled, or objects have hit the equipment.
- C. If the equipment has been exposed to rain or water.
- D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
- E. If the equipment has been dropped, or the cabinet damaged.
- F. When the equipment exhibits a distinct change in performance this indicates a need for service.

#### 15. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

#### 16. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

#### 17. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

#### 18. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

#### 19. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment

#### for the equipment.

#### 20. Elevated Operating Ambient Temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).

#### 21. Reduced Air Flow

Installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

#### 22. Mechanical Loading

Mounting of the equipment in the rack should be such that a hazardous condition is not caused by uneven mechanical loading.

#### 23. Circuit Overloading

Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

#### 24. Reliable Earthing (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

# **FIn-Text**

Symbol	Туре	Description			
	Caution	Important information concerning a specific function.			
$\checkmark$	Note	Useful information concerning a specific function.			

# **User's Caution Statement**

Caution: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

# **FCC Compliance Statement**

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 USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

# **WEEE (Waste Electrical & Electronic Equipment)**

#### **Correct Disposal of This Product**

#### (Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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# **Registered Trademarks**

IDIS is a registered trademark of IDIS Co., Ltd.

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The information in this manual is believed to be accurate as of the date of publication even though explanations of some functions may not be included. We are not responsible for any problems resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.

The software included in this product contains some Open Sources. You may obtain the corresponding source code which we have to distribute according to the license policy. For more information, refer to System > General page. This product includes software developed by the University of California, Berkeley and its contributors, and software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). Also, this product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

Covered by one or more claims of the patents listed at patentlist.accessadvance.com.

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# Part 1 - Introduction

# **Product Features**

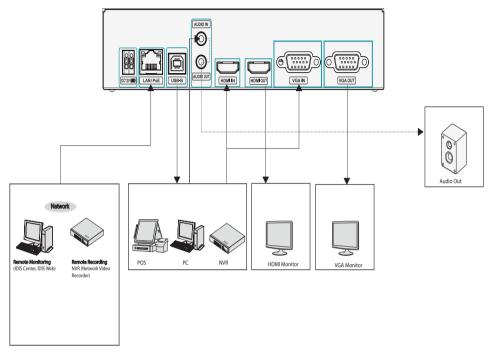
This HDMI&VGA video encoder compresses HDMI and VGA inputs and transmits the video over Ethernet connections. This encoder offers the following features:

- · Multi-streaming for monitoring and recording
- H.264 and H.265 compression algorithm
- · Four levels of video compression and various video compression resolutions
- · DirectIP protocol supported
- · ONVIF protocol supported
- · Convenient firmware upgrades via network
- · Firmware duplication and autorecovery functions to enhance system stability
- · Event detection functions: motion, video loss, tampering, tripzone, audio detection, system event, video loss
- 3.5mm Stereo audio input/output (loop-through)
- · 1-channel audio network transmission
- · Easy integration with 3rd party system
- · Supports HDMI and VGA input ports
- · Remote mouse and keyboard control through USB interface
- Configuration of encoder settings and integrated management of multiple encoders on the NVR (Network Video Recorder)
- Configuration of encoder settings and integrated management of multiple encoders on the IDIS Center program
   (network integration solution)
- Remote control of connection device on the IDIS Center program (video encoder operates as the keyboard or mouse of the USB-connected device).



Video encoding supports one input, either HDMI or VGA. When both are connected, the HDMI input is encoded and transmitted over the network.

#### Video Encoder Connection Diagram



In addition to the above combinations, various devices can be connected.

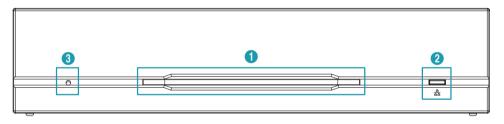
# Accessories

Upon unpacking the product, check the contents inside to ensure that all the following contents are included.

- HDMI&VGA Video Encoder
- Manual
- USB Cable (A to B Type)
- Rubber feet (4 pack)

### **Overview**

### **Front Panel**



Power LED         Network LED         Factory Reset Switch	
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#### 1 Power LED

Displays system operating status

#### ② Network LED

Displays network connection status

#### **LED Status Indications**

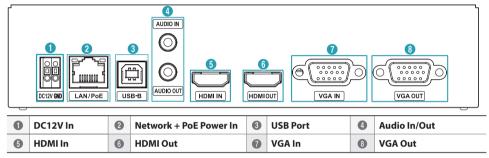
LED	Status	Description	
Power LED	Off	No power connection	
PowerLED	On	System operating	
N	Off	No network connection	
Network LED	On or blinking	Network cable is connected	

#### **③** Factory Reset Switch

Use to return all settings to the original factory settings. Connect the power and poke a straightened paperclip into the factory reset switch hole. Hold the reset switch until the power LED flashes 5 times. When booting is complete, all of the encoder's settings are now at the original settings it had when it left the factory.

- Factory Reset during system booting: All of the encoder's settings are now at the original settings it had when it left the factory.
- Factory Reset during system operating: The other settings except for system log are now at the original settings it had when it left the factory.
- Factory Reset via the IDIS Discovery program (Without network settings): The other settings except for system log and network settings are now at the original settings it had when it left the factory.
- Factory Reset via the IDIS Discovery program (Including network settings): The other settings except for system log are now at the original settings it had when it left the factory.

### Rear Panel



#### 1 DC12V In

Connect the two wires of the power adapter to these ports. Be careful not to cross the DC12V and ground (GND) wires. Booting will commence once connected to a power supply.

#### 2 Network + PoE Power In

Connect a Cat5e cable with an RJ-45 jack. The video encoder is capable of connecting to networks via an Ethernet connector and also receives power through the LAN cable from the NVR and switch hub supporting the PoE function.

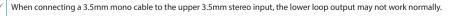
#### ③ USB-B

Connect to an USB port to remotely control device such as PC, POS and NVR, etc (keybaord/mouse method).

 When connecting to a device using Windows Operating System, do not remove the cable until the download of the driver software is complete.

#### ④ Audio In/Out

Upper 3.5mm stereo input and lower loop output (only the left side channel transmitts over the network).



#### **5** HDMI Input

Connect an HDMI output such as PC, POS and video recorder, etc. HDMI output signal is trasmitted through this video encoder using the network port.

#### 6 HDMI Output

The input signal is output as an HDMI loop through output.

#### **⑦ VGA Input**

Connect an VGA output such as PC, POS and video recorder, etc. VGA output signal is trasmitted through this video encoder using the network port.

#### **⑧ VGA Output**

The input signal is output as a VGA loop through output.

- > The network connector is not designed to be connected directly with cable or wire intended for outdoor use.
- Press down on the button and insert the cable into the opening when you connect the power connectors. Release the button and then pull on the cable slightly to ensure it is held securely in place. To disconnect the cable, press down on the button again and pull the cable out.
- Ground the power port's ground terminal before use.
  - Organize the power cable so that it will not cause people to trip over or become damaged from chairs, cabinets, desks, and
    other objects in the vicinity. Do not run the power cable underneath a rug or carpet.
  - · Do not connect multiple devices to a single power outlet.

# Part2 - Remote Setup

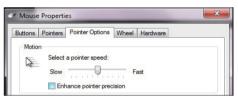
Configure basic HDMI&VGA video encoder settings and all other system settings.



Screen images may vary depending on the model.

### USB Remote Control (Keyboard/Mouse)

- Use a usb cable to connect HDMI&VGA encoder and remote control target.
  - If the remote control target uses Microsoft<sup>®</sup>
     Windows<sup>®</sup> operating system, wait for a while until automatic driver software tasks to complete.
- 2 Set Mouse Properties> Pointer Options in the control panel of remote control device as shown below.



- Select a pointer speed : Right in the middle on the 6th notch.
- Enhance pointer precision : Deselect the setting.

- **3** Register HDMI&VGA encoder on IDIS Center program to run the remote control function.
- 4 Right-clicking on the live screen displays the pop-up menu. Select Remote Control to operate the remote control. (Shortcut: R)

Remote Control	R
Instant Playback	
Playback History	
Play 30 Seconds Before	I

- 5 When the remote control system is activated, (Stop remote control) icon k (Initialize the position of pointer) icon are created in the upper right corner of the screen.
  - Initialize the position of pointer): If the mouse pointer of the control target and the one of the live screen do not match, match with this icon.
  - (Stop remote control): Select this icon to disable remote control.

If two mouse pointers do not match, refer to the below table.

Remote Control Target	Confirmation of Remote Control Target	Remote Settings (DP-HE1201)	
	Control Panel Settings		
	Pointer speed(C) : Center	System - Remote Control - Select	
OS: Microsoft <sup>®</sup> , Windows <sup>®</sup>	Enhace Pointer precision(E) : Deselect	Manual Setup	
	(If a pointer do not match even after the above settings, refer to Remote Settings (DP-HE1201) on the right.)	Display Resolution: Enter the mouse coordinate size of the remote control target manually.	
OS: Linux Ubuntu®	Disable mouse acceleration and enter <b>xset m 0 0</b> command.		
OS: Mac OS®	Disable mouse acceleration, enter <b>defaults write</b> .GlobalPreferences com.apple.mouse.scaling -1 command and reboot.		
IDIS NVR, DVR	Refer to Remote Settings (DP-HE1201) on the right for 3840x2160 resolution.	System - Remote Control - Select Manual Setup	
		Display Resolution: Enter 1920x1080.	

# **Remote Setup**

- 1 Launch the IDIS Discovery program and then from the main screen, select a network encoder whose settings you wish to change.
- 2 Click on the Setup 🔤 icon.
- 3 Select Remote Setup from the Setup menu to load the Remote Setup screen. Alternatively, you can select encoder from the main screen and then rightclick to access the Remote Setup screen.

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- System settings can also be changed using a remote program.
- Remote Setup works with the following web browsers when the web browsers support HTML5: Microsoft Internet Explorer version 10 or later, Google Chrome, Mozilla Firefox, or Apple Safari. It may not work properly with Microsoft Internet Explorer version 9.0 or earlier. It is recommended that you update the web browser to the latest version. When you launch **Remote Setup** on a Microsoft Internet Explorer version 10 or later supporting HTML5 and the **Remote Setup** screen does not appear, check if the web browser's document mode is set to 9 or higher or **Edge**. You can check the document mode as follows: Press the **F12** key on the keyboard → click the **Document mode To** icon.



					<b>-</b> 101
Guick Setup	Quick Setup / Overview				
Dystem Network Visco Audio			am Time (US & Cana	ida) (DST)	
> System > Network		DHCP 109.254.242.19 0.0.0.0			
<ul> <li>Video</li> <li>Audio</li> <li>Event Action</li> <li>Event</li> </ul>	Compression Rosolution	Detault Record SI H 204 3840x2160 Wey High VftR 30 ips	1444   On   11,254   1280x720   Very High   VRR   30 ips	On   H 204   640x360   High   VfR   30 ips	On   H204   640x360   Standard   VRR   15 ips
		G.711 u-Law On (Lino in)			

From the Remote Setup screen, select the menu on the left to display the current settings. Select an option under the menu to change the corresponding settings. Once you have changed the settings, click **Save** to apply the settings.

# **Quick Setup**



Quick Setup subtab allows you to set up **System**, **Network**, **Video**, **Audio**, and other basic settings needed for encoder use.

# System



Change the encoder system information, add users/ groups, and/or import/export settings.

### General

		с. Сп
Quick Setup	System / General	
System General	Language Name	Croatian (Hrvatski)
General Date/Time	Note	01
User/Group	SW Version	100
Network	Miscellaneous ONVIF Protocol	2 On
Video Audio	Open-source Licenses	View
Event Action	Setup	Load Default Setup
		Import Setup Export Setup
	-	Saw-

- Language: Select the language you wish to use for remote setup.
- Name: Enter a name for the encoder. (Up to 31 alphanumeric characters, including spaces)
- Note: Enter a description for the encoder.
- HW Version/SW Version: Indicates the encoder's hardware and software versions.
- Miscellaneous
  - ONVIF Protocol: Select to enable ONVIF protocol use. However, ONVIF Protocol is available only to users belonging to the standard user groups (Administrator, Operator, and User) and when video compression is set to H.264 or JPEG under Video > Streaming menu. When you have connected to the encoder by using the ONVIF protocol, only the currently enabled streams or events are supported and you cannot change it. There may be some more settings that cannot be changed, too. If you want to change those settings, connect to the encoder by using the IDIS Discovery program.
  - ONVIF Event Type
    - Normal: A normal way for a camera to deliver events.
    - **Standard:** A way to deliver ONVIF standard events.
  - **Opensource Licenses:** Click **View** to see the information of opensource licenses.

#### • Setup

- Load Default Setup: Restores all settings other than Date/Time to their factory defaults. Select Include Network Setup to load default network settings as well. For more information on network setup, refer to the <u>Network on page 18</u>.
- Import Setup: Open a setup file and apply its settings to the encoder. Click on the button and then select a setup file. Select Include Network Setup to apply the file's network setup settings (exc. FEN). For more information on network setup, refer to the <u>Network on page 18</u>.
- **Export Setup**: Export the current settings as a dat file. Click on the button and then enter a file name.
  - When applying the settings of a setup file, do not select the **Include Network Setup** option if the network settings contained in the selected file is currently being used by a different encoder. Doing so can interfere with establishing a connection with the other encoder.
    - If IP Address, Port, and/or SSL settings have been changed, click Save to apply the current settings, and then restart Remote Setup. If you do not restart Remote Setup, the changes afterwards will not be applied.

# Date/Time

				<b>-</b> IDIS
› Quick Setup	System / Date/Time			
- System	Date/Time			
	Date	2017/10/17	Format	•
General >	Time	12:53:43	Cormat Cormat	•
Date/Time +	Time Zone	GMT-12:00 Eniwetok, Kwejalein		*
User/Group >		🗷 Use Daylight Saving Time		
<ul> <li>Network</li> </ul>	Time Sync			
> Video				
> Audio				
Event Action				•
		Run as Server		
> Event				

- Date/Time: Change the encoder's date/time settings and display formats and configure the time zone and daylight saving time settings. Click Save to apply the changes right away.
- Time Sync
  - Automatic Sync: Select to synchronize the system's time with the time server at a specified interval.
     Enter the time server's IP address or domain name and then specify the interval. If the time server is FEN-enabled, select the Use FEN option and then enter the time server's name instead of its IP address or domain name.
  - **Run as Server**: Select to run the encoder as a time server. Other devices will then be able to synchronize its time setting with this encoder's time setting.
    - If you wish to enter a domain name instead of an IP address for the **Time Server** setting, DNS server must be configured during **Network** setup. If you wish to enter a server name instead of an IP address or a domain name, the **Use FEN** option must be enabled during **Network** setup.

# User/Group



- User/Group: Change remote encoder control permission settings for users and user groups.
  - Add Group: Add a new user group. Designate a name for the group and then specify control authorities.
  - **Add User**: Add a new user. Designate a name for the user, select which group to add the user to, and then enter a connection password.
  - **Edit**: Edit group authorities and/or user passwords. Select a group or user and then click on the button.
  - Remove: Delete groups or users. Select a group of user you wish to delete and then click on the button.
- Allow Anonymous Login: Select if you are using Webcasting. For more information on webcasting, refer to the <u>Webcasting on page 25</u>.



- User/Group settings can only be configured by users belonging to the Administrator group.
- There is no default password for the **Administrator** group's **admin** user.
- Standard groups (Administrator, Operator, and User) cannot be edited or deleted. Authorities assigned here apply identically to ONVIF protocol user groups.
- Group authorities that can be assigned are as follows:
  - Upgrade: Upgrade the system.
  - Setup: Configure the system's settings.
  - Remote Control: Control the connection device on the IDIS Center Program.

### **Remote Control**

	e <sup>*</sup> idis
Quick Setup	System / Remote Control
System	Manual Setup     Display Resolution     192062000
General	•
Date/Time	
User/Group	·
Remote Control	• · · · · · · · · · · · · · · · · · · ·
> Network	
› Video	
> Audio	
Event Action	
• Event	
	Save

If the mouse pointer of the control target and the one of the live screen do not match, check the remote control target's Control Panel > Mouse Properties and then select **Manual Setup** as shown above.

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For more information on configuring mouse setup, refer to <u>USB Remote Control</u> (Keyboard/Mouse) on page 13.

- Manual Setup : Set the releated settings manually.
- **Display Resolution** : Enter the mouse coordinate size of the remote control target manually.

# Network



Change the network settings, enable FEN and security features, and control network bandwidth use.

# **IP Address**

uick Setup	Network / IP Address		
rstern	Type	Manual	
Rwork		00:03:22:47:53-0F	
Address +			
4		255 . 255 . 0 . 0	
90008 ·		0.0.0.0	
idwidth Control +			
ourity >	DNS Server	0.0.0.0	
E 802.1X +		R From DHCP	
100	Link-local only		
idio			
ent Action			
ont			

- **Type**: Select the type of network you are using. If this option has been changed, click **Save** to apply the current settings, and then restart Remote Setup. If you do not restart Remote Setup, the changes afterwards will not be applied.
  - **Manual**: Select if using a static IP. You will then be able to configure the related settings manually.
  - DHCP: Select if connected to the network using DHCP. Click Save to retrieve IP address and other network settings automatically from the DHCP server.
- DNS Server: Enter the DNS server's IP address. By using the DNS server, you will be able to use domain names instead of IP addresses when configuring the FEN, time, or SMTP server. If the encoder is connected to the network via DHCP, select the From DHCP option to retrieve the DNS server's IP address from the DHCP server automatically. The updated address will be displayed upon the subsequent connection.
- Link-local only: Use only the IP addresses of the linklocal IP range. (ex:169.254.x.x)
- $\checkmark$
- Contact your network administrator for more information on the encoder's network connection type, the DNS server's IP address, and other related information.
- If using DHCP, the encoder's IP address may change from time to time. We therefore recommend that you use the **FEN** feature.

### FEN

#### Select Use FEN to enable the FEN feature.

Quick Setup	Network / FEN			
System Network IP Address	🕅 Use FEN	fen.idisglobal.com	(10000 ~ 12000)	Check
FEN > Port/QoS > Bandwidth Control > Security > IEEE 802.1X >				
Video Audio Event Action Event				

- FEN Server: Enter the FEN Server's IP address or domain name.
- Port: Enter the FEN Server's port number.
- FEN Name: Enter a encoder name you wish to register to the FEN Server. Click OK to check the name's availability.

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- Use FEN is a feature that allows you to register a unique name for an encoder that utilizes a dynamic IP address to the FEN Server and connect to the encoder using the registered name instead of an IP address, which can change from time to time.
   Moreover, you can access the encoder without having to configure NAT (Network Address Translation) device settings even when the encoder uses a NAT device. In order to use this feature, you must first register a FEN name to the FEN Server.
- If network settings have been changed, click **Save** at the bottom of the setup window to save the changes and then setup the **FEN**.
- Inquire with your network administrator for the FEN Server's IP address or domain name. If a DNS server has been configured under Network setup, you can enter the FEN Server's domain name instead of its IP address for the FEN Server setting.
- FEN Server's default address is fen.idisglobal. com. DNS server must be configured under network setup to ensure normal operation.
- You will not be able to save FEN settings unless you click on the OK button next to the FEN name field and check the entered name's availability. In addition, you will be prompted with an error message if you do not enter a FEN name or enter a name already registered to the FEN Server. If the FEN name contains the #, \, and/or % symbol, it might not be able to connect to the encoder from the IDIS Web program.

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The FEN Server operated by IDIS is a service to its clients and may go offline without notice for server update purposes or due to an unexpected failure.

# Port/QoS



- Use/Port: Enable/disable ports and designate corresponding port numbers. Remote Port and IDIS
   Web / HTTP ports are enabled by default and cannot be disabled. By enabling IDIS Web and RTSP ports, you will be able to use the IDIS Web program or a media player that supports RTSP (Real-Time Streaming Protocol) service to connect to the encoder. When the HTTP port is enabled, you can run the encoder's Remote Setup. If this option has been changed, click Save to apply the current settings, and then restart Remote Setup. If you do not restart Remote Setup, the changes afterwards will not be applied.
- DSCP: Designate each port's QoS (Quality of Service) level using DSCP values. Assigning QoS levels prioritizes the ports for network bandwidth use.
   Higher the DSCP value, higher the QoS level and thus higher on the network bandwidth allocation priority list. Use 0 if you do not want to assign a QoS level. The network environment must support DSCP in order for this feature to function properly. Contact your network administrator for more details.

- Use HTTPS: Select this option to apply https protocolbased security on IDIS Web.
- Use UPnP: If the encoder is connected to the network via an IP router (or NAT), select this option to connect to the encoder without setting up port forwarding. The IP router (or NAT) must be enabled with UPnP in order for this feature to function properly. For more information enabling UPnP on your IP router (or NAT), refer to the <u>IP router or NAT's operation manual</u>.

Click **Check** to test the current port settings. A confirmation message will appear if all the selected ports are available for use. If not, a list of recommended port numbers will be shown.

Not	ify	
A	Recommended Port Remote Port : 8016 = WebGuard : 80 ==>	==> 8017
	ОК	Cancel

Click Apply to use the recommended port numbers.

 In a WAN environment, it is recommended that you use the UPnP function if you record video by using the FEN function or FEN connection is not smooth. Otherwise, monitoring or recording might not be smooth depending on the network environment.

- · Each port number must be unique.
- It is not allowed to use the same port number for more than one function.
- You can connect to the encoder using a media player that supports RTSP service and monitor its video feed. If the encoder is connected to the network via an IP router (or NAT) or is behind a firewall, you must open the ports. (All ports if using UDP protocol and RTSP ports if using TCP protocol) This feature may not be supported by al media player. In addition, video display on certain media players may not be smooth depending on the network status, video streaming compression method used, and/or the resolution setting. Connection methods are as follows:
  - Via PC: Launch the media player (such as VLC) and then enter rtsp://ID:Password@IP Address: RTSP Port Number/trackID='Stream Number' (Stream Number: 1 if Primary, 2 if Secondary, and 3 if Tertiary). (e.g.: rtsp://admin:@10.0.152.35:554/ trackID=1 (User: admin, Password: None, Encoder IP Address: 10.0.152.35, RTSP Port Number: 554, Stream: Primary)

 Port numbers of the remote program must be updated whenever the encoder's port numbers are changed.

· ONVIF protocol may not function if using HTTPS.

# **Bandwidth Control**

Regulates the cnetwork bandwidth use based on network traffic fluctuations.

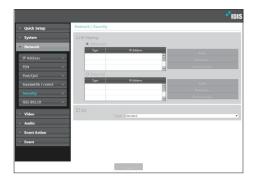
	IDIS
> Quick Setup	Network / Bandwidth Control
> System	Network banzwizh Imm
Network	102400 Kityo (100 Mityo)
IP Address +	
FEN +	
Port/GoS +	
Bandwidth Control +	
Security +	
IEEE 002.1X +	
> Video	
> Audio	
Event Action	
• Event	
	Sava

Select **Network Bandwidth limit** and then specify the maximum bandwidth. The device will not be able to use more than the specified limit in the event of network traffic.

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It may not be possible to produce the frame rate specified under **Video > Streaming** if a network bandwidth limit has been set.

# Security



- IP Filtering: Select this option to enable IP Filtering. IP Filtering allows encoder access from certain IP addresses and blocks access from others.
  - Add: Add new IP addresses to Allow List or Deny List. Select the Host option to add one IP address at a time. Select the Group option to define a range of IP addresses you wish to add.
  - **Remove/Remove All**: Remove individual or all IP addresses from Allow List or Deny List.

- **SSL**: Select this option to enable SSL (Secure Sockets Layer). Enabling this option applies SSL protocol protection on data transmitted out. However, programs and systems that do not support SSL will not be able to connect to the encoder. If this option has been changed, click **Save** to apply the current settings, and then restart Remote Setup. If you do not restart Remote Setup, the changes afterwards will not be applied.
  - Time server, FEN Server, and SMTP server's IP addresses must be added to Allow List under IP Filtering in order to use Time Sync, FEN, and Send Email features. No connection to the encoder will be permitted whatsoever from IP addresses added to Deny List.
  - Enabling the SSL option may place a greater load on the external system, depending on the level of security being used.
  - This product contains software developed by Open SSL Project for use in Open SSL Toolkit. (http://www. openssl.org/)

### **IEEE 802.1X**

Select the **IEEE 802.1X** option to enable IEEE 802.1X network connection authentication.

Quick Setup	Network / IEEE 802.1X		
System	11 TEEE 802.1X		
Network	Certificates		
P Address	CA Certificate	No CA certificate uploaded.	Upload
	Client Certificate	No client certificate uploaded.	Upload
	Client Private Key(and	No private key uploaded.	Upload
	certificate)		
	Private Key Password		
EEE 802.1X	Settings		
	EAP Type EAPOL Version		
Video	EAP Identity	2	
Audio	EAP Password		
Event Action			
Event			

# Video

Quick Setup	Video / Overview			
System	Camera			
Network	Mirroring			
/ideo	Streaming			
amera >	Compression		H.264	
	Bitrate Control			
ebcasting +				
	Intelligent Codec			
rivacy Masking >	Webcasting			
	Webcasting	Off		
Audio	MAT			
vent Action	Sensitivity			
	Inactivity Period			
Event	Frame Rate			
	Privacy Masking			
	No. of Privacy Masks			

Configure Camera, Streaming, Webcasting, MAT, and Privacy Masking options.

- Certificates: Upload a certificate or a private key. You
  may be prompted to enter a password for the private
  key.
- **Settings**: Configure EAP (Extensible Authentication Protocol) settings.
  - EAP Type: Choose a network connection authentication method. Selected method must be identical to the authentication method used on the authentication server.
  - **EAPOL Version**: Choose EAP authentication's version.
  - **EAP Identity/EAP Password**: Enter authentication ID and password.



The authentication server and AP must support IEEE 802.1X authentication in order for the IEEE 802.1X network connection authentication feature to function properly.

# Camera

#### Image Sensor

#### Configure Image Sensor settings.

					•"IDIS
Quick Setup	Video / Camera				
System	Image Sensor				
Network					
Video		Mirroring Pivot	Horizontal	Vertical	
Comera >		Prvot	OII		•
Streaming >					
Webcasting >					
MAT >					
Privacy Masking 🕠					
Audio					
Event Action					
Event					
		_			
			save		

- **Mirroring**: Select Horizontal Reverse or Vertical Reverse to flip the image horizontally or vertically.
- **Pivot**: Select a direction to rotate images 90 degrees clockwise or counterclockwise. If both Mirroring and Pivot functions are enabled, Mirroring functions first, then Pivot.

# Streaming

	Video / Streaming				
		Primary	Secondary	Tertiary	Counternary
	Compression	H.265 ¥	H260 ¥	H.265 ¥	H 260
Video	Resolution	3840x2160 *	3840x2160 •	3840x2160 ¥	3540x2160
Carriera	Quality	Very High +	Very High +	Very High 🔹	Very High
Streaming	Targel Bitrale (Ktyrs)	18432	8192	2304	1145
Webcasting	Bitrate Control	VBR V	MBR .	MBR V	VBR
	Frame Rate	30 ips •	30 ips •	30 kps •	30 ips
Privacy Masking			Default	Record Stream Prim	ary
t interry meaning			le le	telligent Codec Off	
	Multi-View Streaming				
	Moto-view Streaming		Secondary	Testiary	Quaternary
	Resolution	Cotup	or	or	Of .
		winip			-

- Primary/Secondary/Tertiary/Quaternary Multistreaming is supported. Enable/disable streaming use. The stream that you set up first has priority.
- **Compression**: Choose the streaming compression method.



When using H.265 compression, a device that does not support H.265 compression may prevent the screen from being displayed.

- **Resolution**: Choose a resolution setting for video streaming.
- Quality: Choose a quality setting for video streaming.
- **Target Bitrate(kbps):** Set up the target bitrate. The bitrate value can be specified when the quality setting is a manual, and other settings display target bitrate for each quality setting.
- **Bitrate Control**: Choose a bitrate control mode for video compression.
  - **CBR (Fixed Bitrate):** Maintains the current bitrate regardless of motion change in the video.
  - VBR (Variable Bitrate): Bitrate varies depending on motion changes in the video. Less movement places less load on the network and takes up less storage space.
- Frame Rate: Choose a frame rate setting for video streaming.
- **Default Record Stream**: Choose a stream to use for recording. This setting, however, may not apply if a recording stream has been designated from the remote program or the SD memory card recording feature has been enabled.
- Intelligent Codec: Lower bitrate by using the intelligent codec.

 Multi-View Streaming: Designate a specific area of the screen and stream images from that area only. (not supported for the primary stream) Click Setup to designate a streaming area.

Select **On** and then specify the streaming area's resolution.



- **Resolution Limit**: Indicates the maximum resolution that can be set for the streaming area.
- Resolution: Designate a streaming area.
   Designated area is marked in red on the screen. You can adjust the resolution of the area or reposition the area by dragging and dropping using the mouse.
- **Current Resolution**: Displays the resolution of the designated streaming area.



If multiple users are connected to the device, the increase in bandwidth use can lower the frame rate.

# Webcasting

Use the webcasting service to view live images from the encoder on a web site.

				<b>f</b> idis
· Quick Setup	Video / Webcasting			
System	"Webcasting is used to provid	de video streaming serv	vice for those with de	dicated web sites for
Network	customer service.			
Video	*To provide this service, inser- web server.	t the HTML Code that i	s generated below in	your web page on your
Camera >	HTML Code			
Streaming >	Aneromous login must be checke	d to use webcasting.		
Webcasting				
MAT >				
Privacy Masking >				
+ Audio				
Event Action				
+ Event	Stream @ Primary	Secondary	C Tertiary	C Quaternary
	I			
		Save		

- **HTML Code**: Copy and paste the html code shown on the screen within the code of the web page you want the video to be displayed.
- **Stream**: Choose a stream to use for webcasting. Only a stream currently in use can be selected.

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In order to use the webcasting service, the **Allow Anonymous Login** option under **System > User/ Group** must be selected.

# MAT

Select the **MAT** option to use the MAT (Motion Adaptive Transmission) feature during video transmission and recording.



- **Sensitivity**: Set the motion detection sensitivity. Higher values will result in more sensitive motion detection.
- **Inactivity Period**: Set the Inactivity Period. If motion is not detected for the duration of time specified, video is transmitted and recorded using the frame rate designated below until movement is detected again.
- Frame Rate: Designate the frame rate to be used between the end of the Inactivity Period and the next motion detection. Video is transmitted and recorded at the designated frame rate between then end of the Inactivity Period and the next motion detection. Once motion is detected again, the frame rate designated under **Streaming** is restored immediately.

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MAT (Motion Adaptive Transmission) is a feature that lowers the frame rate when motion is not detected to reduce the load on the network and save on storage space. Based on the specified sensitivity setting, no movement will be assumed if there is no change between two consecutive images.

# **Privacy Masking**

Select **Privacy Masking** to set up a privacy mask over a specific area. The section on which a privacy mask is applied will appear as black when monitoring video.

	-"iDIS
Quick Setup	Video / Privacy Masking
→ System	Privacy Masking
<ul> <li>Network</li> </ul>	No. Nome
Video	<u>+</u>
Camera >	-
Streaming +	
Webcasting >	
MAT	
Privacy Masking +	a a a a a a a a a a a a a a a a a a a
> Audio	Privacy Masking Setup
Event Action	
+ Event	
	Save

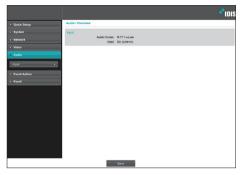
• Privacy Masking Setup: Set up privacy masks(up to 8).



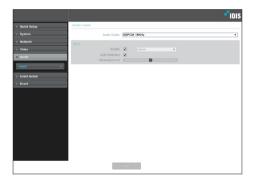
- Set or remove a privacy mask. Click on the button and drag & drop using the mouse to set up a privacy mask.
- No./Name: Displays a list of active privacy masks.
   The numbers indicate privacy mask numbers. Select the empty space next to a number to assign a name to the corresponding privacy mask. Click Delete to remove the selected privacy mask.

# Audio

#### Configure audio in/out settings.



# Input



- Audio Codec: Select an audio codec.
- Input: Click Enable option to select audio input source (Line-in) and control the volume. When you select Auto Detection, the audio input device is automatically selected according to how audio is being input.
  - Line-in: Audio input port on the rear panel of this encoder.

# **Event Action**

Designate event detection alert actions.



# Email

#### Select Email to send out emails.



- **SMTP Server/Port**: Enter the SMTP server's IP address (or domain name) and port number you received from the network administrator. If a DNS server has been set up during network configuration, you can enter a domain name instead of an IP address.
- Use SSL/STARTTLS: If using an SMTP server requiring an SSL or STARTTLS connection, select SSL or STARTTLS option.
- Authentication: Enter a user ID and password if user authentication is required by the SMTP server.
- Sender/Recipient(s): Enter the sender and recipients' addresses. (Up to 10) The addresses must be properly formatted and include the @ symbol.

## **Remote Callback**

Select **Remote Callback** to send callback messages to a remote system.



- Not supported from the IDIS Web program.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.

						<b>"</b> IDIS
Quick Setup	Event Action / Remote Callba	ek 🛛				
• System	Remote Callback					
Network		IP Address		Po	uft (8000-12000)	
› Video	1				201	
Event Action	2				201	
tinel +	3				201	
Remote Callback >						
FTP Upload	4				201	
> Event	5			. 8	201	
	Retry	1	*			

- **IP Address**: Enter the IP address and port number of the remote system that will receive the messages.
- Retry: Designate how many reattempts to make if message delivery fails.

# FTP Upload

Select **FTP Upload** to upload .jpg image of the event detected to an FTP server.

Quick Setup	Event Action / FTP Upload	
System	FTP Upload	
Network	FTP Server	
Video	Primary Server	Add Remove
Audio	Secondary Server	Add Remove
Event Action	Settings	
Email +	Upload Type	Event
Remote Callback	Upload Frequency	1 • Image(s) per Second •
FTP Upload	Resolution	704x480 V Quality Very High V
	Base File Name	
Event		Add Date/Time Suffix

• FTP Server: Click Add to register a new FTP server. Click Remove to remove a registered FTP server. When an event is detected, a .jpg image of the event detected image is uploaded to the Primary Server. If the upload to the Primary Server fails, the file will be uploaded to the Secondary Server. Upload to the Secondary Server will continue to be attempted until successful. Fill out the fields below and click **Test** to test the FTP server connection settings. Once the test is complete, click **OK**.

Add FTP Server	
FTP Server	
Upload Path	
Port	21
User ID	
Password	
	OK Cancel

- FTP Server: Enter the FTP server's IP address (or domain name).
- Upload Path: Designate the file upload path.
- **Port**: Enter the FTP server's port number.
- User ID, Password: Enter the user ID and password needed for connecting to the FTP server.
- Settings: Configure image and upload settings.
  - Upload Type: Choose an upload type. Select Always to upload images using the settings below, irrespective of event detection. Select Event to upload images using the settings below when an event is detected.
  - Upload Frequency: Activated only when Upload Type has been set to Always. Designate the upload speed. The specified number of images will be uploaded to the FTP server during the specified period of time.
  - Upload 1 image per: Activated only when Upload Type has been set to Event. Designate the upload speed. Select Upload for and specify a duration. Images will be uploaded for the specified duration at the specified upload speed. Select Upload while event status is active to upload images at the specified speed only while event status is active.

- Resolution/Quality: Choose the resolution and quality of the images to upload to the FTP server. Range of resolution settings you can use here can vary depending on the resolution setting applied under Video > Streaming.
- Base File Name: Enter a name for the files to be uploaded to the FTP server and then choose file identification options. Select Add Date/Time Suffix to add event detection date and time information to each image file. Select Add Sequence Number Suffix - max. Count to number the image files based on the order of event detection. Select Overwrite to overwrite the previous image with the new image. Event type is automatically added to the file names.
- $\checkmark$

 When specifying the Upload Path or Base File Name, you cannot use special characters such as \, /, #, \*, |, ;, ", <, >, and ?.

- The resolution of FTP upload image can change depending on the resolution setting applied under Video > Streaming.
- Set speed settings for Upload Frequency and Upload 1 image per options in consideration of the FTP server's performance. FTP uploads can fail if the configured speed is higher than what the FTP server can handle.

### **Event**

Configure event detection settings.

Quick Setup	Event / Overview	
System	Motion Detection	
Network	Sensitivity Motion Zone	
Video	Trip-Zone	
Audio	Sensitivity Trip-Zone	
Event Action	Audio Detection	
Event	Sensitivity Activation Time	
frip-Zone >	Tampering Sensitivity	
· Audio Detection	Activation Time	
/ideo Loss →	Ignore interval	0.1 sec.
iystem Event >	System Event System Alive	
		Save

# **Motion Detection**

Select **Motion Detection** to configure motion detection event settings. With motion detection event enabled, motion detections within the designated area will be assumed as events.



- Sensitivity: Select daytime and nighttime motion detection sensitivity levels. Higher values will result in more sensitive motion detection.
- **Minimum Blocks for Detection**: Select minimum blocks for daytime and nighttime motion detection. Motion must take place over the selected number of blocks in order for it to be considered as a motion detection event.
- Motion Zone: Click Setup and define the motion zone using blocks.
  - ∅ (Select)/𝔄 (Unselect): Enable/disable motion detection.
  - C(Single Block): Select/unselect motion detection blocks individually.
  - 🔣 (Zone): Select/unselect multiple motion detection blocks.
  - 💩 (All): Select/unselect all motion detection blocks

- **Motion Ignoring Interval**: With Motion Ignoring Interval configured, no event log or notification is generated for motions detected during a period of time following a motion detection event.
- **Daytime**: Specify when daytime starts and ends. All other times will be assumed as nighttime.
- Event Action: Select a motion detection event alert action.
  - **Send Email**: Select if you wish to send an email. Select the **Image Attachment** option to attach a .jpg image of the event detected to the email.
  - **Remote Callback**: Select this option to send a message to a remote system and then select which system to send the message to.

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- Not supported from the IDIS Web program.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.
- FTP Upload: Select this option if you wish to upload images to the FTP server.

**Event Action** settings must be configured correctly in order to perform event actions.

# **Trip-Zone**

Select Trip-Zone to configure trip zone event settings. With trip zone event enabled, motion detected inside/ outside the selected area will be assumed as an event.



- Sensitivity: Select daytime and nighttime motion detection sensitivity levels. Higher values will result in more sensitive motion detection.
- Trip-Zone: Click Setup and define the trip zone using blocks.
  - Select) (Select) (Unselect): Enable/disable trip zone.
  - **(Single Block)**: Select/unselect trip zone blocks individually.
  - 🕞 (Zone): Select/unselect multiple trip zone blocks.
  - 🖏 (AII): Select/unselect all trip zone blocks.
  - Trip Direction: Define in which direction the motion has to occur in order for it to be considered as an event. Select In for movement occurring from outside the trip zone in and Out for movement occurring from inside the trip zone out.

- Motion Ignoring Interval: With Motion Ignoring Interval configured, no event log or notification is generated for motions detected during a period of time following a motion detection event.
- Daytime: Specify when daytime starts and ends. All other times will be assumed as nighttime.
- Event Action: Select a trip zone event alert action.
  - Send Email: Select if you wish to send an email. Select the Image Attachment option to attach a .jpg image of the event detected to the email.
  - Remote Callback: Select this option to send a message to a remote system and then select which system to send the message to.

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Not supported from the IDIS Web program.

- The camera must be registered to the remote system in order to use the Remote Callback feature
- FTP Upload: Select this option if you wish to upload images to the FTP server.

1	Event Ac
<b>V</b>	in order t

tion settings must be configured correctly to perform event actions.

# Audio Detection

Select **Audio Detection** to configure audio detection event settings. With audio detection enabled, an audio detection taking place during the specified activation period will be assumed as an event.



- **Sensitivity**: Define the audio detection sensitivity. Higher values will result in more sensitive detection.
- Activation Time: Specify how long audio has to be detected for it to be considered as an event. Audio detections that do not last for the specified duration of time will not be considered as events.
- **Use Ignoring Time**: Define the event ignoring time. Audio detections taking place during the defined time range will not be assumed as events.

- Audio Ignore Interval: With Audio Ignoring Time configured, no event log or notification is generated for audio detections taking place during a period of time following an audio detection event.
- Event Action: Select an audio detection event alert action.
  - Send Email: Select if you wish to send an email.
     Select the Image Attachment option to attach a .jpg image of the event detected to the email.
  - **Remote Callback**: Select this option to send a message to a remote system and then select which system to send the message to.

- Not supported from the IDIS Web program.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.
- **FTP Upload**: Select this option if you wish to upload images to the FTP server.



**Event Action** settings must be configured correctly in order to perform event actions.

# Tampering

Select **Tampering** to configure tampering detection event settings. With tampering detection event enabled, a sudden change in the video, such as due to movement of the camera or covering up of the lens, will be assumed as an event.



- Sensitivity: Define the tampering detection sensitivity. Higher values will result in more sensitive detection.
- Activation time: Specify how long tampering has to be detected for it to be considered as an event. Tampering detections that do not last for the specified duration of time will not be considered as events.
- **Use Ignoring Time**: Define the event ignoring time. Tampering detections taking place during the defined time range will not be assumed as events.
- Event Action: Select a tampering detection event alert action.
  - Send Email: Select if you wish to send an email.
     Select the Image Attachment option to attach a .jpg image of the event detected to the email.
  - Remote Callback: Select this option to send a message to a remote system and then select which system to send the message to.



- Not supported from the IDIS Web program.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.
- **FTP Upload**: Select this option if you wish to upload images to the FTP server.



**Event Action** settings must be configured correctly in order to perform event actions.

# Video Loss

Select Video Loss and configure video loss settings.

	" IDIS
· Quick Setup	Event / Video Loss
→ System	Ølgnore interval 0.1 sec.
<ul> <li>Network</li> </ul>	Utignore interval 0.1 sec.
› Video	Use Ignoring Time 18:00 ~ 09:00
· Audio	
Event Action	
Event	Event Action
Motion Detection >	Remote Cellback
Trip-Zone +	*Event Action should be set for normal operation.
Audio Detection >	
Tampering +	
Video Loss >	
System Event >	
	Save

- Ignore Interval: The event occurs only when video loss occurs and remains for the specified duration.
   (For example, 0 sec.: Immediately, 15 sec.: 15 seconds)
- Use Ignoring Time: The event never occurs for the specified duration even if video loss occurs.
- Event Action: Select a video loss event alert action.
  - Send Email: Select to send an email.
  - **Remote Callback:** Select this option to send a message to a remote system and then select which system to send the message to.



Not supported from the IDIS Web program.

The camera must be registered to the remote system in order to use the **Remote Callback** feature.



**Event Action** settings must be configured correctly in order to perform event actions.

# System Event

Select **System Event** and configure system event settings. With system event enabled, system status will be checked periodically and corresponding alerts will be generated.



- **System Alive**: Select to check the system status and then set up a schedule.
  - Send Email: Select to send out an email when the system comes on line.
  - Remote Callback: Select this option to send a message to a remote system when the system comes on line and then select which system to send the message to.



 Email and Remote Callback settings under Event Action must be configured correctly in order to send out emails and messages.

- Remote Callback is not supported on IDIS Web.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.

# Part 3 - IDIS Web

IDIS Web is a program that allows you to view video from remote locations over the Internet and can be accessed on a Microsoft Internet Explorer.

System requirements for running IDIS Web are as follows:

- OS: Microsoft<sup>\*</sup> Windows<sup>\*</sup> 7 (Home Premium, Professional, Ultimate), Microsoft<sup>\*</sup> Windows<sup>\*</sup> 8 (Pro, Enterprise) or Microsoft<sup>\*</sup> Windows<sup>\*</sup> 10 (Home Pro)
- CPU: Intel Pentium IV 2.4GHz or above (Core 2 Duo E4600 recommended)
- · RAM: 1GB or more
- VGA: 128MB or more (1280x1024, 24bpp or above)
- · Internet Explorer: Version 10 or later 32-bit
- 1 Launch Internet Explorer and then enter the following information in the address bar.
  - http://IP Address:Port Number (IDIS Web connection port number selected during camera IP address and port number setup)
  - Or http://FEN Server Address/FEN name (FEN Server address and FEN name registered to the FEN Server)
  - Or http://web.idisglobal.com (it is required to enter the camera IP address when logging in. If the camera uses the FEN feature, you can enter the FEN name registered to the FEN server instead of the camera IP address after selecting the USE FEN option)



If the Use HTTPS option has been selected during IDIS Web port number setup, enter https instead of http. If
prompted with a security certificate warning, select "Continue to this website (not recommended)." If the IDIS Web
login page fails to load, configure Internet Explorer's settings as follows:

- Tools  $\rightarrow$  Internet Options  $\rightarrow$  Security  $\rightarrow$  Custom Level...  $\rightarrow$  Medium-high (default) or Medium.
- Tools → Internet Options → Advanced → Security → Use TLS 1.0 (select)
- If connecting by entering an IP address and a port number, you can connect by entering just the IP address if IDIS Web connection port number has been set to 80 (443 when entering https).
- · If connecting by entering http://web.idisglobal.com, it is required to enter the Watch port number.
- · Contact your network administrator for the IP address of the camera you wish to connect to the IDIS Web pot number.

2 When prompted with the IDIS Web login window, select **LIVE-PORT** or **PLAY-PORT** as the desired mode. Enter the ID and password and click **LOGIN** to sign in using the selected mode.

LOGIN			<b>-</b> IDIS
ID Password			LOGIN
•	LIVE-PORT	O P	LAY-PORT

- IDIS Web supports Microsoft Internet Explorer only and no other type of web browser.
- · IDIS Web does not work with Microsoft' Windows' 8 metro UI.
- Do not close the login window while IDIS Web is running. Switching over to Web Live or Web Search mode can cause a script error, requiring you to restart the IDIS Web program.
- To use IDIS Web on Microsoft Windows Vista or above, launch Internet Explorer by right-clicking on the icon and selecting the **Run as administrator** option. Otherwise, certain IDIS Web functions might not be available.
- When running IDIS Web, the bottom section of the screen may get cut off if the address bar or the status bar is shown.
   In this case, change Internet Options so that the address bar or the status bar is hidden. (Tools → Internet Options → Security → Custom level... → Allow websites to open windows without address or status bars (Enable))
- Launching a new version of IDIS Web for the first time can cause Internet Explorer to load information from the
  previous version. In this case, navigate to Tools → Internet Options → General, delete temporary Internet files, and
  then restart IDIS Web.
- On Microsoft Windows Vista or above, lowered image transmission rate can prevent the screen from being displayed
  or updated. In this case, we recommend that you disable the computer's auto tuning function. Open the command
  prompt as an administrator. (Start → Accessories → Command Prompt → Right-Click and then select Run as
  administrator) Type in "netsh int tcp set global autotuninglevel=disable" and then press Enter. Restart the
  computer to apply the change. To enable auto tuning again, launch the command prompt as an administrator and
  then type in "netsh int tcp set global autotuninglevel=normal". Restart the computer to apply the change.

# Web Live Mode

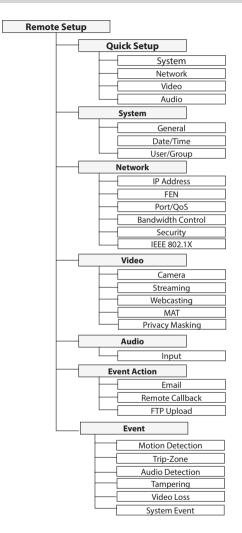
A remote web monitoring program that allows you to monitor images from remote locales in real-time.



0	Press 🗷 to terminate IDIS Web.
2	Place the mouse pointer on the logo to check IDIS Web's version.
3	Displays the current time.
4	Click 🔳 to view the video in full screen. Press the ESC key on the keyboard to return to the previous screen.
6	Click 🔜 to print the current video screen using a printer connected to the computer.
6	Click 🔜 to save the current video screen as an image file.
0	Click 🙀 to configure rendering mode and OSD settings. Select rendering mode to adjust the video output rate or select which OSD elements to display on the screen from the OSD list.
8	Click 🛂 to load the camera setup window.
9	Click 🖳 to switch over to Web Search mode.

0	Shows login information.					
0	Indicates the camera's number.					
Ø	This function is not supported.					
ß	Used to adju	st live video quality.				
4	Click on off	to control the alarm out device connecte	d to the can	nera.		
	Event status	window at the bottom of the screen disp	lays a list of	events detected	at r	emote locales.
	_ / _	Enable/Disable Alarm In		Tampering		
(1)	Ł	Motion Detection	Ð	Audio Detectio	on	
	4	Trip zone				
	Right-click o	n the screen to display the pop-up menu	. Click to ena	ble or		Change Camera Title
	disable each	function.				Enable Audio
	Change C	amera Title: Used to change the camera'	s name.			Aspect Ratio
	Rena	ming the camera in Web Live mode does not	affect the can	iera's name on		MultiStream
	the r	emote system. If no name is entered for the ca	amera, the nar	ne used at the	$\checkmark$	Anti-Aliasing Screen
	remo	ote locale is shown on the screen.				Mouse PTZ Control
	• Enable Au	<b>Idio</b> : Enables audio transmission with rer	note locales	Select to display	у 🔝	■× buttons.
	2	Enables transmission of audio to the re	mote locale	via microphone.		
	•	Enables playback of audio from the ren	note locale c	on speakers.		
	2/1	Enables two-way audio communication	n with the re	mote locale.		
	×	Disables audio transmission.				
G	If the remote locale connected to supports audio transmission, <b>(#</b> icon appears on the corresponding camera screen.					
	Aspect Ratio: Change the aspect ratio of the video displayed on the screen.					
	- <b>Fit to Screen</b> : Fit the video to the size of the camera screen.					
	- Fit to Aspect Ratio: Resizes camera screen to original aspect ratio of the video.					
	original (x0.5) th	e (x0.5) - 4 Times Bigger (x4): Displays t size of the video. For example, original si rough 4 times larger (x4) options are only o accommodate the selected size.	ze (x1) displa	ays the video in i	ts oi	riginal size. Half size
	MultiStream: If the camera is running on multi-stream mode, you can choose between the streams.					
	<ul> <li>Anti-Aliasing Screen: Removes stair step effect (blocks) that are caused when zooming a video to improve overall quality of video output.</li> </ul>					
	Mouse PTZ Control: This function is not supported.					
	1					

# Setup Menu Tree (Remote Setup)



# Troubleshooting

Problem	Check
	Check that the LAN cable is connected to the device supporting PSE.
Power LED will not turn on	Check that the power cable is connected or power supply status of the PSE device that the LAN cable is connected to
The system is unable to recognize	Check the LAN cable.
network interface	Check the network LED.

# Specifications

Model		DP-HE1201		
	Input Video	HDMI x 1, VGA x 1		
	Output Video	HDMI x 1 (Input Bypass)		
	Output video	VGA x 1 (Inj	out Bypass)	
Encoder		3840 x 2160, 1920 x 1080, 1600 x 1200, 1600 x 900		
		1440 x 900, 1366	x 768, 1360 x 768	
	Supported Input Resolution (HDMI)	1280 x 1024, 1280	x 960, 1280 x 800	
	nesolution (nom)	1280 x 768, 1280	x 720, 1024 x 768	
		800 x 600,	720 x 480	
		1920 x 1080, 1600	x 1200, 1440 x 900	
	Supported Input Resolution (D-SUB(VGA))	1360 x 768, 1280 x 1024, 1280 x 800		
		1280 x 720, 1024 x 768, 800 x 600		
	Supported Input Resolution Standard (D-SUB)	VESA Display Monitor Timing		
	Supported Input Vertical Frequency	3840 x 2160 : 30Hz, others : 60Hz		
		DirectIP Mode	Compatibility Mode	
	Video Compression	H.265, H.264 (MP), M-JPEG		
Network	Bitrate Control	H.264 - CBR / VBR, H.265 - CBR / VBR		
Network	Audio Compression	ADPCM 16K, G.726, G.711 u-Law, G.711 a-Law		
	Max. Frame Rate	30ips : 3840 x 2160		
	Supported Resolution	1920x1080, 1280x720, 704x480, 640x360		

	Bit rate(640x360 @30ips) - Very High / High / Standard / Basic	H.264 - 3Mbps / 2.25Mbps / 1.5Mbps / 0.75Mbps H.265 - 1.5Mbps / 1.125Mbps / 0.75Mbps / 0.375Mbps		
	Bit rate(704x480 @30ips) - Very High / High / Standard / Basic	H.264 - 4Mbps / 3Mbps / 2Mbps / 1Mbps         H.265 - 2Mbps / 1.5Mbps / 1Mbps / 0.5Mbps         H.265 - 2Mbps / 1.5Mbps / 1Mbps / 0.5Mbps         H.264 - 8Mbps / 6Mbps / 4Mbps / 2Mbps         H.264 - 12Mbps / 10Mbps / 3Mbps / 2Mbps / 1Mbps         H.264 - 12Mbps / 10Mbps / 8Mbps / 4Mbps         H.265 - 6Mbps / 5Mbps / 4Mbps         H.265 - 9Mbps / 15Mbps / 12Mbps / 9Mbps         H.265 - 9Mbps / 7.5Mbps / 6Mbps / 4.5Mbps		
	Bit rate(720P @30ips) - Very High / High / Standard / Basic			
	Bit rate(FHD @30ips) - Very High / High / Standard / Basic			
	Bit rate(UHD @30ips) - Very High / High / Standard / Basic			
	Multi-video Streaming			
	Ethernet	RJ45 (10/100BASE-T)		
Power Source		12V, PoE (IEEE 802.3af Class 3)		
Electrical	Power Consumption	12V <del></del> 0.95A, 11.4W PoE, IEEE 802.3af(Class 3)		
	Approval	FCC, CE, KC		
Mechanical	Dimensions (W x H x D)	200mm x 44mm x 152.3mm (2.98" x 2.4" x 5.09")		
meenamea	Weight	800g (1.72 lb)		



IDIS Co., Ltd.

For more information, please visit at www.idisglobal.com