

Network Camera

Operation Manual

DC-D3233HRX / DC-D3233WRX DC-D3233RX / DC-D3233X



Before reading this manual

This is a basic operation manual for use of an IDIS network camera. 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 in this operation manual are intended to promote proper use of 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.

- The information in this document is believed to be accurate as of the date of publication even though explanation about some functions may not be incorporated. The manufacturer is 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.
- It is recommended that first-time users of this network camera 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 Symbols

Symbol	Publication	Description
	IEC60417, No.5031	Direct current

In-Text

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

Safety Precautions

WARNING

RISK OF ELECTRIC SHOCK

DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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. Placing and Accessories

Do not place this equipment on an wall or ceiling that is not strong enough to sustain the camera. 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.

Do not place this equipment in an enclosed space. Sufficient ventilation is required to prevent an increase in ambient temperature which can cause malfunction or the risk of fire.

7. 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.

This equipment should be remain readily operable.

8. Power Cord

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

9. 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.

10. Overloading

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

11. 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.

12. Servicing

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

13. 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.

14. 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.

15. 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.

16. Field Installation

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

17. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Replace only with the same or equivalent type.

Dispose of used batteries according to the instructions.

The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

18. 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.

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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Other company and product names are registered trademarks of their respective owners.

This product contains software built partially on open-source content. Codes for the corresponding open-source content are available for download depending on whether or not the source is publicly available under a 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.oepnssl.org/). Also, this product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

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Part 1 - Remote Setup

Configure basic network camera settings and all other system settings.



Screen images may vary depending on the model.

Camera Protocol

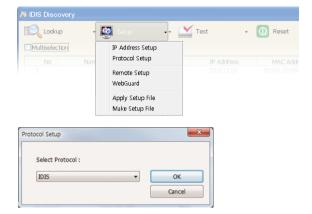
Camera supports **DirectIP™** and **IDIS** protocols.

- DirectIP[™] protocol:
 - Using with a DirectIP[™] NVR enables camera use without the need to configure network settings.
 - The DirectIP[™] NVR also allows you to control all camera settings directly from the NVR, without the need for a computer.

For more information on configuring camera settings from a DirectIP[™] NVR, refer to the NVR's **operation manual**.

- IDIS protocol:
 - Control the camera over the network from software installed on a computer or a separate NVR.
 - Ideal for using the camera over the network from a remote location.

Switching Protocols



- Launch the IDIS Discovery program and from the list, select a camera whose protocol you wish to change.
- 2 Click on the Setup ^I icon and then select Setup → Protocol Setup.
 - Alternatively, you can right-click on the mouse and select **Protocol Setup**.
- From the Protocol Setup screen, select the desired protocol and then click OK.
- 4 This will activate the selected protocol. You can check each camera's protocol on the IDIS Discovery program.



This operation manual was written based on the IDIS protocol use.

Remote Setup

- 1 Launch the IDIS Discovery program and then from the main screen, select a network camera 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 Network Camera from the main screen and then right-click 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** is icon.





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 allows you to set up **System**, **Network**, **Video**, **Audio**, and other basic settings needed for camera use.

System



Change the camera's system information, add users/ groups, and/or import/export settings.

General

					- IDIS
Quick Setup	System / General				
System General Dote/Time	Language Name Note	Chinese-PRC (肖体中文)		-
User/Group +	HW Version SW Version				
 Video Audio Event Action 	Miscellaneous ONVIE Protocol Opensource Licenses	2 on View			
› Event	Setup	_	Load I	Default Setup	
		_	import Setup	Export Set	up
		Securi			

- Language: Select the language you wish to use for remote setup.
- Name: Enter a name for the camera. (Up to 31 alphanumeric characters, including spaces)
- Note: Enter a description for the camera.
- **HW Version/SW Version**: Indicates the camera'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 camera 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 camera by using the IDIS Discovery program.
 - **Opensource Licenses:** Click **View** to see the information of opensource licenses.

• Setup

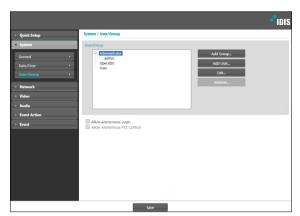
- Load Default Setup: Restores all settings other than Date/Time to their factory defaults. Select Include Network Setup to load default network settings as well. For more information on network setup, refer to the <u>Network on page 12</u>.
- Import Setup: Open a setup file and apply its settings to the camera. 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 12</u>.
- **Export Setup**: Export the current settings as a .xml file. Click on the button and then enter a file name.
 - Load Default Setup and Import Setup options are available only to users belonging to the Administrator group.
 - 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 camera. Doing so can interfere with establishing a connection with the other camera.
 - 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

				- ¹ idis
Quick Setup	System / Date/Time			
	Time Time Zone Time Sync Time Server	SMT-12:00 Eninetok, Kwajalein Use Daylight Saving Time Automatic Sync Use FEN	Format	•
· Freet		10 min. □ Run as Server		

- **Date/Time**: Change the camera'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 camera as a time server. Other devices will then be able to synchronize its time setting with this camera'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

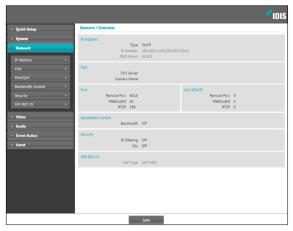


- **User/Group**: Change remote camera control permission settings for users and user groups.
 - Add Group: Add a new user group. Designate a name for the group and then specify control authorities.
 - **Add User**: Add a new user. Designate a name for the user, select which group to add the user to, 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 24</u>.
- Allow Anonymous PTZ Control: Select to control the pan/tilt driver remotely from a website using webcasting.



- 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.
 - **Color Control**: Adjust the camera's brightness, contrast, saturation, and hue settings.
 - PTZ Control: Authority to control pan/tilt driver's pan/tilt functions.
 - Alarm-Out Control: Reset alarm outs.
 - Search: Search video recordings saved on the SD memory card from a remote program.
 - Clip-Copy: Search video recordings saved on the SD memory card and save them as video files from a remote program.

Network



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

IP Address

		⁴ idis
Quick Setup	Network / IP Address	
• System	Туре	Manual 🔹
Network		
IP Address >	IP Address	192 . 168 . 1 . 129
FEN >	Gateway	192 . 168 . 1 . 1
Port/QoS •	Subnet Mask	255 . 255 . 255 . 0
Bandwidth Control +		0.0.0
Security >	DNS Server	Z From DHCP
IEEE 802.1X >		
> Video		
> Audio		
Event Action		
+ Event		

- **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 camera 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.
 - ✓.

Contact your network administrator for more information on the camera's network connection type, the DNS server's IP address, and other related information.

• If using DHCP, the camera'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.

	-101-
Quick Setup	Network / FEN
 System Network 	2 Use FEN
IP Address	PEN Server Port 10085 (10000 - 12000)
FEN >	FEN Name Check
Port/QoS +	Cherk.
Bandwidth Control	
› Video	
> Audio	
Event Action	
> Event	
	Save

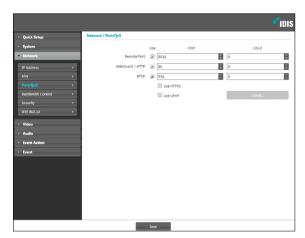
- FEN Server: Enter the FEN Server's IP address or domain name.
- Port: Enter the FEN Server's port number.
- FEN Name: Enter a camera name you wish to register to the FEN Server. Click OK to check the name's availability.

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- Use FEN is a feature that allows you to register a unique name for a camera that utilizes a dynamic IP address to the FEN Server and connect to the camera using the registered name instead of an IP address, which can change from time to time. Moreover, you can access the camera without having to configure NAT (Network Address Translation) device settings even when the camera 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 camera from the IDIS Web program.

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 camera. When the HTTP port is enabled, you can run the camera'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 camera is connected to the network via an IP router (or NAT), select this option to connect to the camera 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 **IP router or NAT's operation manual**.

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 N Remote Port : 8016 =: WebGuard : 80 ==> 8	=> 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 camera using a media player that supports RTSP service and monitor its video feed. If the camera 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, Camera IP Address: 10.0.152.35, RTSP Port Number: 554, Stream: Primary))

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

• ONVIF protocol may not function if using HTTPS.

Bandwidth Control

Regulates the camera's network bandwidth use based on network traffic fluctuations.

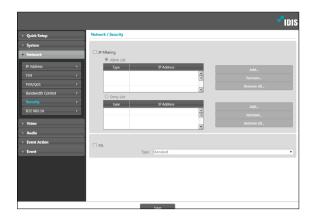
	-"idis
Quick Setup	Network / Bandwidth Control
> System	
 Network 	Network bandwidth limit
IP Address	1000 Mbps
FEN >	
Port/QoS +	
Bandwidth Control	
Security +	
IEEE 802.1X •	
→ Video	
> Audio	
Event Action	
+ Event	
	Savo

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

\checkmark	

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 camera 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 camera. 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 camera 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.

System System Second Secon	Certificates	
P Addeco. Contracte Dio C. Conflicture uplicaded. Uplicad. FNN - C. C. Canflicture uplicaded. Uplicad. PAU(20.6 - C. C. Canflicture uplicaded. Paperson Rendooffic Control - seandooffic Control - seand		
Parlament Face C. C. Centrale Image: C. Centrale Image: C. C. Centrale	CA Certificate	
NuCOS Client Central Us client central centra central central central centra central central central central		No CA certificate uploaded. Upload
NaCitors of Bandwath Costnal - Clerk Philose Rey Passwath - Clerk Philose	Chant Castificate	No client certificate uploaded. Upload
Security Clere Private Regress certificates Clere Privates Regress certifica	Citerit Certificate	
IBTE 002.1X Private kay Passival Viden Settings Audio EAPTOL Version Event Action EAPTOL Version	Client Private Key(and certificate)	No private key uploaded. Upload
Video Settings Action EAP Hpps Event Action EAP Action	Private Key Password	••••••
Value LAV (pp) LAV AUD Audio EXPC (pp) LAV AUD Event Action EXPC (pp) LAV AUD Event Action EXPC (pp) LAV AUD	Settinos	
Event Action EAP Descent		EAP-MD5
EAP Password		
EAP Password ++++++		
	EAP Password	•••••
		Client Private Key(and certificate) Private Key Password Settings EAPOL Version EAPOL Version

Video

						- IDIS
	Quick Setup	Video / Overview				
	System	Camera				
	Network	Mirroring	None			
	Video	Streaming				
	Carreera > Streaming > Webcasting > MAT >	Compression Resolution	1920x1080 Standard VBR 30 ips	On H.265 1280x720 Standard VBR 30 ips	Off None None None None None	Off None None None None
Ľ	Privacy Masking >	Webcasting Webcasting	Off			
	Event Action	MAT Sensitivity Inactivity Period Frame Rate				
		Privacy Masking No. of Privacy Masks	0			
		_	Save			

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.

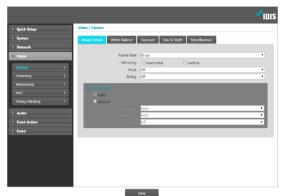
 \checkmark

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.



- Frame Rate: Set the frame rate of image sesor. Selecting 30.00 ips limits the frame rate of images for streaming under Video > Streaming menu to 30.00 ips. Selecting 60.00 ips restricts some settings under Video > Streaming menu and disables the following functions: FTP upload, image attachment of emailing, and WDR.
- **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 vertical resolution is less than 320, this function is not supported. If you enable this function, you can monitor more efficiently long and narrow space such as hallways, corridors, etc. If both Mirroring and Pivot functions are enabled, Mirroring functions first, then Pivot.
- **Defog:** Disables or enables the Defog feature. When it is enabled, image with a fog is adjusted.
- Auto Adjustment: Selecting Auto allows the system to assess the lighting conditions and adjust the setting automatically. Selecting Manual allows the user to adjust the setting manually.
 - **Sharpness**: Adjust the sharpness level. Adjust the contours to make the images look sharper. Increasing the value raises the sharpness level, but using too high a value can result in unwanted noise.
 - **Noise Filter**: Select the noise filter level. Noise filter can reduce the noise in images taken under low-lighting conditions. Increasing the value reduces the noise, but using too high a value can result in blurry images.
 - 3DNR: Set whether to enable or disable 3DNR (3D Noise Reduction). When 3DNR is enabled, the level of background noise is reduced in low light conditions. It does not cause overall image blurring which might occur when using noise filter, but it may cause afterimage (lag).

White Balance

Configure White Balance settings.

Quick Setup	Video / Camera	
System	Image Sensor White Balance	Exposure Day & Night Miscellaneous
Network		
lideo	() Preset	Auto 🔹
amera	Omanual	
	Red Gain	1.43
	Blue Gain	1.29
(AT	blue dain	1.29
rivacy Masking		
Audio		
Event Action		
Event		

- Preset: Use preconfigured white balance settings.
 - **Auto**: Allow the system to adjust the white balance automatically. The system will assess the lighting conditions and adjust the white balance automatically.
 - **INCANDESCENT FLUORESCENT COLD**: Select a lighting type to apply the appropriate white balance.
- **Manual**: Adjust the white balance manually. Adjust Red and Blue gain values. Greater the value, greater the intensity of the corresponding color.

Exposure

Configure **Exposure** settings.

	Video / Camera		
Quick Setup	Video / Camera		
System	Image Sensor White Balance	Exposure Day & Night Miscellaneous	
Network			_
Video	IRIS	P-IRIS(Auto)	•
		F1.60 Open	Close
Camera +	AE Target Gain		•
	Anti-Flicker		•
Webcasting +	Slow Shutter		•
	WDR		•
Privacy Masking +	Backlight Compensation	Off	•
rinasy maxing -	Exposure Control		
Audio	O Auto		
Event Action	Manual		
Event	Shutter Speed	1/30sec.	1/10000ses.
	Gain Control	0 dB	42.48

- IRIS: Adjust the openness of the lens IRIS.
 - **P-IRIS (Auto)**: The system will assess the lighting conditions and adjust the openness of the IRIS automatically.
 - P-IRIS (Fix): Use the slider to select the desired openness of the IRIS. Select the most suitable value for the lighting conditions in the area where the camera is located.
- **AE Target Gain**: Specify exposure compensation's target gain. Exposure is compensated automatically based on the specified target gain. Higher the gain, brighter the images.
- Anti-Flicker: If the lights in the area where the camera is located use alternating current, specify the frequency of the lights to minimize flickering. Matching the frequencies can reduce flickering. (NTSC: 60Hz, PAL: 50Hz) When using WDR, flickering can be present in poor environments even if Anti-Flicker is turned on.

- Slow Shutter: Activate Slow Shutter. The electronic shutter's speed will decrease to the specified level under low-lighting conditions to allow more light in and therefore produce brighter images.
- **WDR:** Disables or enables the WDR(Wide Dynamic Range). When the very dark and very bright areas exist simultaneously on the screen, WDR allows you to recognize the both areas.
- **Backlight Compensation**: Enable/disable the Backlight Compensation feature. If using WDR, Backlight Compensation OFF does not work.
 - **ON**: When images are too bright overall due to backlight, objects are exposed brighter under backlight circumstances.
 - **HSBLC** (High Suppress Backlight Compensation): When a certain area of images is too bright due to backlight under low lighting conditions and it causes the other area to be too dark, this function provides the other area of images brightly and clearly by blocking the backlight in the certain area. Dark parking lot entrances and gas station entrances at night, for example (HSBLC compensates for the bright light coming from incoming vehicle headlights and makes it possible to see the license plates).
- **Exposure Control:** Adjust Shutter Speed and gain. This option is available only when **Anti-Flicker** and **Slow Shutter** are both set to **Off**.
 - **Auto:** The system will assess the lighting conditions and adjust the shutter speed and gain automatically.
 - **Manual:** Use the slider to select the desired shutter speed and gain. Select the most suitable minimum and maximum shutter speeds and gains for the lighting conditions in the area where the camera is located.



With certain features, selecting **Auto** automatically loads settings suitable for the camera's installation environment.

Day & Night

Configure Day & Night settings.



- B&W Mode: Display the images in greyscale for greater clarity in low-lighting conditions. When configuring Event > Alarm In, this feature will not function if Day & Night Mode event action has been configured. DC-D3233X only
 - **On/Off**: Enable/disable B&W Mode.
 - **Auto**: Allow the system to enable/disable B&W Mode automatically.
 - Schedule: Set up a B&W Mode schedule. B&W Mode is enabled on days and times designated as Nighttime and disabled at all other times. Select On or Off at the bottom of the schedule table and then click or drag on the dates and times to select/ unselect as Nighttime. Select On or Off and then click Select All/Clear All to select/unselect all dates and times as Nighttime.

- IR Cut Filter: IR Cut Filter blocks out the infrared spectrum. You can ensure clear images at all times by blocking out the infrared spectrum in high-lighting conditions and allowing the infrared spectrum to pass through in low-lighting conditions. When configuring Event > Alarm In, this feature will not function if Day & Night Mode event action has been configured.
 - Nighttime Mode/Daytime Mode: Disables or enables the IR cut filter.
 - **Auto**: Allow the system to enable/disable IR Cut Filter automatically.
 - Schedule: Sets up the IR cut filter schedule. The IR cut filter is disabled during the date and time scheduled as **Nighttime** and enabled during the rest. Set up or release Nighttime by selecting **On** or **Off** in the bottom and clicking or dragging the date and time area in the table. Selecting On or Off and clicking the **Select All/Clear All** button sets up or releases Nighttime for all dates and time.
- Switching Level: Sets up the switching level between daytime and nighttime modes. For example, if the darkness level is set to 3 and the brightness level to 5, the system switches to nighttime mode when in lighting conditions of level 3 or below and to daytime mode when in lighting conditions of level 5 or over. It is recommended that you do not set up the darkness level and brightness level identically; otherwise, this function may not work properly. This functions only when **B&W Mode or IR Cut Filter** is set to **Auto**.*DC*-*D3233HRX/DC-D3233WRX/DC-D3233RX only*

Miscellaneous

Configure Miscellaneous settings.

				- IDIS
Quick Setup	Video / Camera			
> System	Image Sensor White Balance	Exposure Day & Night	Miscellaneous	
Network				
Video	Video Output IR Strength			•
Camera +	ik strengtn	100%		
Streaming +				
Webcasting +				
MAT +				
Privacy Masking				
> Audio				
Event Action				
> Event				
		Save		

- Video Output: Select a video output signal format.
- **IR Strength:** Set the brightness of the IR LED. The higher the value is set, the brighter it is.

Streaming

Quick Setup	Video / Streaming				
System		Primary	Secondary	Tertiary	Quaternary
Network	Compression	H.265 •	H.265 ¥		
Video	Resolution	1920x1080 •	1920x1080 •	•	
Camera	Quality	Very High 🔹	Very High 🔹	•	
	Ditrate Control	VBR ·	VBR •	•	
	Frame Rate	30 ips 🔹	50 (p)	•	
	.			Record Stream Prima	iry
Privacy Masking	•		Int	elligent Codec Off	
Audio	Multi-View Streaming				
Event Action			Secondary	Tertiary	Quaternary
Event	Resolution	Setup	Off	Off	Off

 Primary/Secondary/Tertiary/Quaternary: Multistreaming is supported (priority: Primary > Secondary > Tertiary > Quaternary). Enable/disable streaming use. The lower stream settings may change depending on higher stream settings. The tertiary and quaternary streams may not be available depending on higher stream settings. (refer to the table below).

Primary		Seconda	Secondary Tertiary Quaternary		Tertiary		ry
Resolution	ips	Resolution	ips	Resolution	ips	Resolution	ips
			1280x720	2			
				1920x1080	4	704x480	5
						640x360	5
1920x1080	20	1920x1080	30			352x240	15
	30	192001080				1280x720	1
				1280x720	10	704x480	2
				1280x720		640x360	4
						352x240	10

• **Compression**: Choose the streaming compression method. The H.265 compression does not support ONVIF Protocol and RTSP.

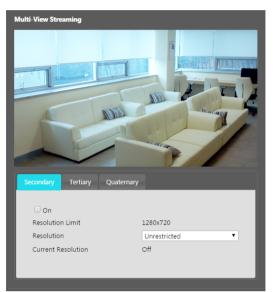


When using H.265 compression, a device that does not support H.265 compression may prevent the screen from being displayed.

- **Resolution**: Choose a resolution setting for video streaming. The resolution varies depending on the camera model. The current stream resolution cannot be higher than the higher stream resolution.
- Quality: Choose a quality setting for video streaming.
- **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. The fame rate of the current stream cannot be higher than the fame rate of the higher stream if those stream resolutions are same.
- **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 camera, the increase in bandwidth use can lower the frame rate.

Webcasting

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

				- 101
Quick Setup	Video / Webcasting			
> System	"Webcasting is used to provide vide	eo streaming service for thos	e with dedicated web site	s for customer service.
> Network	"To provide this service, insert the I	ITML Code that is generated	below in your web page	on your web server.
 Video 	HTML Code	ļ	, ,,	,
Camera	HIMLCODE			
Privacy Masking				
Audio				
Event Action				
> Event	Stream @ Primary	Secondary	C Tertiary	© Quaternary
	Success & Printary	- aecondary	- renary	- Quaternary
		Serve		

- **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.

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.

				- ² idis
Quick Setup	Video / MAT			
> System	MAT			
Network				
▼ Video	Sensitivity C			3
Camera +	Inactivity Period			10 sec.
Streaming +		-		
Webcasting +	Frame Rate	Primary	off	
MAT		Secondary	Ott •	
Privacy Masking		Tertiary	Off •	
› Audio		Quaternary	Off •	
Event Action	Wation Adaptive Transm	rrian raducer bandwidth our	riand and rowns starson cons	city by reducing the frame
+ Event	rate of the video during pe triggers this function by a	ssion reduces bandwidth ove eriods of inactivity. The user o fjusting "inactivity period". Th n.	an select the period of sustai a frame rate returns to norma	ned inactivity which al frame rate immediately
	upon detecting any motio	n.		
		Save		

- **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. When the slow shutter mode is enabled under Video > Camera menu, the fame rate may change. 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.

 \checkmark

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	
 Network 		No. Name
* Video		NO. Public
Camera +		
Streaming +		
Camera → Streaming → Webcasting → MAT →		1
MAT >		
Privacy Masking		
+ Audio		
Event Action		V
• Event		Privacy Masking Setup
	San	ave

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



- C(Select)/((Unselect)): 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.

	-"o	IS
Quick Setup	Audio / Overview	
› System	Input/Output	
Network	Audio Codec G.711 u-Law Input On (Line-in)	
> Video	Output Off	
• Audio		-
Input/Output +		
Event Action		
> Event		
	Save	

In/Out

	_			• 10
Quick Setup	Audio / Inpu	t/Output		
> System		Audio Codec	G.726	
Network	Input			
Video		Enable		
Audio		Volume		
Input/Output	Output	Enable		
Event Action		Volume		
• Event				
	_			

- Audio Codec: Select an audio codec.
- Input: Select an option and then adjust the volume.
- **Output**: Select an option and then adjust the volume.



Cameras do not feature built-in audio amplifier units and therefore require the user to purchase a speaker system with a built-in amplifier separately.

Event Action

Designate event detection alert actions.



Alarm out

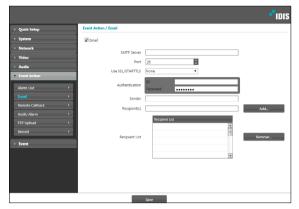
Select Alarm Out to enable alarm out.

				- ⁻ idis
Quick Setup	Event Action / Alarm Out			
> System	Alarm Out			
Network	Dwell Time	5 sec.		
 Video 	Schedule		~ 24:00	\$
> Audio				м
Event Action				
Alarm Out				
Email +				
Remote Callback				
Audio Alarm >				
FTP Upload				
Record +				
> Event				
		Save		

- **Dwell Time**: Designate the alarm out duration. When an event occurs, alarm out will be generated for the specified duration.
- **Schedule**: Specify the alarm out schedule. Alarm out is generated during the specified period only.

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.



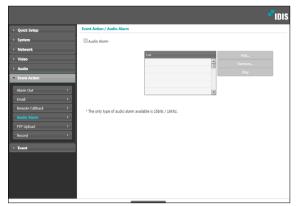
- Not supported from the IDIS Web program.
- The camera must be registered to the remote system in order to use the **Remote Callback** feature.

Quick Setup	Event Action / Remote Callback	
> System	Remote Callback	
Network	IP Address Port (8000–12000)	
› Video	1 8201	
> Audio	2	
 Event Action 		
Alarm Out		
Email +	4 8201	
Remote Caliback	5	
Audio Alarm 🔸	Retry 1	
FTP Upload +		
Record +		
> Event		
	Save	

- **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.

Audio Alarm

Select Audio Alarm to generate audio.



List: Displays a list of audio files to playback. Click
 Add or Remove to add/remove audio (.wav) files.
 (supports 16-bit, 16KHz encoded files only) Select an audio file from the list and then click Play to listen to the file.

FTP Upload

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

	-ioi
Quick Setup	Event Action / FTP Upload
> System	FTP Upload
 Network 	FIP Server
→ Video	Primary Server Add Remove
• Audio	Secondary Server Add Remove
Event Action	
Alarm Out	Settings Upload Type Event
Email •	Upload Frequency 1 Tanage(s) per Second
Remote Callback	obroan Ledneurà. T
Audio Alarm FTP Upload	Resolution 704x480 Quality Very High
Record +	Base File Name Image
	Add Date/Time Suffix
+ Event	Add sequence Number Suffix - max. Count
	Overwrite
	Save

• 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.



- **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.

Record

Select **Record** to record video on the SD memory card. First, make sure that an SD memory card (Class 6 or higher) has been properly inserted.

	*101
Quick Setup	Event Action / Record
› System	Record
Network	
> Video	Total Capacity None Format SD Card
 Audio 	Record Audio On •
 Event Action 	Schedule Settings
Alarm Out	
	Mode Always - Event Duration Pre Event 0 sec. Post Event 5 sec.
Audio Alarm	0 1 2 3 4 5 6 7 9 9 10 11 12 18 14 15 16 17 19 19 20 21 22 23 24
FTP Upload	
Record	
+ Event	
	8un
	Event O Time-Lapse/Event O Time-Lapse
	Select All On Off
	Sane

- **Total Capacity**: Indicates the SD memory card's total capacity if it has been inserted properly.
- Format SD card: Click on this button to format the inserted SD memory card. Formatting the SD memory card erases all data saved on the card.

This function is only supported for users in **Administrator** group.

• Record Audio: Enable/disable audio recording.

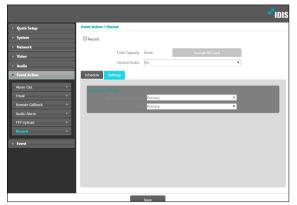
Schedule

Select the **Schedule** tab and set up a recording schedule.

- Mode: Choose a recording mode.
 - **Always Event**: Records video in event mode. In event recording mode, video is recorded when an event is detected.
 - **Always Time-Lapse**: Records video in time lapse mode. In time lapse recording mode, video is recorded continuously, irrespective of event detection.
 - **Always Time-Lapse/Event**: Records video in time lapse mode when event has not been detected and in event mode when one is detected.
 - Date/Time: Video is recorded in the specified mode according to the dates and times selected in the schedule. Select On or Off at the bottom of the schedule table and then choose a recording mode. Click on dates and times on the schedule table or drag to enable/disable recording mode. Select On or Off and then click Select All/Clear All to enable/ disable recording mode on all dates and times.
- **Duration**: Specify the event recording duration.
 - **Pre-Event**: Select the pre-event recording duration. You can record up to 60MB of video. Using high resolution, quality, and frame rate settings can cause the recording to exceed the 60MB limit and stop before the end of the specified recording duration.
 - **Post-Event**: Select the post-event recording duration.

Settings

Select the **Settings** tab and configure recording settings.



- **Recording Stream**: Choose a stream to use for recording. It's possible to designate different streams for different recording modes.
 - Time-Lapse/Pre-Event: Designate the stream to use for recording in time lapse mode or event mode (pre-event).
 - **Event**: Designate the stream to use for recording in event mode (post-event).
- \checkmark

Recordings saved on the SD memory card can be searched and played back from the IDIS Solution Suite Compact program or remotely from the remote program. For more information, refer to each program's **operation manual**.

- Video search and playback may not function properly on the remote program while video is being recorded on to the SD memory card.
- A

To remove the SD memory card, unselect the **Record** option and wait 30 seconds before doing so. Removing the SD memory card while recording is in progress of without waiting 30 seconds can damage the system and/or the recording data.

Event

Configure event detection settings.

		- ¹ idis
Quick Setup	Event / Overview	
→ System	Alarm In	
Network	Туре	NO
+ Video	Motion Detection	
+ Audio	Sensitivity Motion Zone	
Event Action	Trip-Zone	
- Event	Sensitivity	
Alarm In	Trip-Zone	U
Motion Detection	Audio Detection Sensitivity	3
Trip Zone +	Activation Time	
Audio Detection	Tampering	
Tampering +	Sensitivity Activation Time	
System Event	System Event	
	System Event System Alive	1 hr.
	Alarm In Bad	
	Disk In/Out	On
		Save



Select **Alarm In** to enable alarm in event. With alarm in event enabled, alarm in detections by the alarm in connector will be assumed as events.

		IDIS
Quick Setup	Event / Alarm In	
> System	2 Alarm In	
 Network 		
> Video		
+ Audio		
Event Action	Title Alarm In	
- Event	Type NC V	
Alarm In		
Motion Detection	Event Action	
Trap-Zone +	Alarm Out Send Email Image Attachment	
Audio Detection	Remote Callback	
Tampering +	Audio Alarm	
System Event >	FTP Upload Record	
	"Event Action should be set for normal operation.	

- Title: Enter the alarm-in device's name.
- **Type**: Select the alarm in type.
- Event Action: Select an alarm in event alert action.
 - Day & Night Mode: Select if you do not wish to use the IR cut filter when an event is detected. DC-D3233X only Select this option to override the Day & Night Mode settings under Video > Camera.
 Select B&W Mode to enable black and white mode when an event is detected. Expiration of the detected event will disable B&W Mode and restore IR Cut Filter.
 - Alarm Out: Select if you wish to generate an alarm out.
 - **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.
 - Audio Alarm: Select this option to generate an audio alert and then choose an audio file (.wav).
 - **FTP Upload**: Select this option if you wish to upload images to the FTP server.
 - Record: Select this option to record video.

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.

				- IDIS
Quick Setup	Event / Motion Detection			
> System	Motion Detection			
Network Video Audio Event Action Event	Sensitivity Minimum Blocks for Detection Motion Zone Motion Ignoring Interval	Daytime (1 (Dull) • Daytime (1 0 Setup Never •	Nighttime 1 (Dull) Nighttime 1 3308lock(s)	v V
Alarm in ,	Daytime	09:00	18:00	\$
Motion Detection > Trip-Zone > Audio Detection > Tampering > System Event >		Image Attachment 1 2 3 4 5		
	"Event Action should be set for normal	operation		
		Same		

- **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)/∅ (Unselect): Enable/disable motion detection.
 - [] (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.
 - Alarm Out: Select if you wish to generate an alarm out.
 - **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.
 - Audio Alarm: Select this option to generate an audio alert and then choose an audio file (.wav).
 - **FTP Upload**: Select this option if you wish to upload images to the FTP server
 - Record: Select this option to record video.



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.

		" IDIS
Quick Setup	Event / Trip-Zone	
> System	Z Trip-Zone	
Network Video Audio Event Action Aum In Video	Senakirky Daytime (E/Dul) • Trie-Zone Settors 0 Block(r) Molion Jaronig Internal Yever: • • Daytime 0 000 Image: • •	Nighttime (1 (Dull) •
Motion Detection Trip-Zone Audio Detection Tampering System Event	Lever Action Sand Chuil Brend Callback Ll2.3.4.4.5 Acido Aline Prote Uploba P. Recod	
	"went action should be set for normal operation	

- **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)/ (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.
 - Alarm Out: Select if you wish to generate an alarm out.
 - **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 s
- Not supported from the IDIS Web program.
 - The camera must be registered to the remote system in order to use the **Remote Callback** feature.
 - Audio Alarm: Select this option to generate an audio alert and then choose an audio file (.wav).
 - **FTP Upload**: Select this option if you wish to upload images to the FTP server.
 - Record: Select this option to record video.

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.

				- IDIS	
Quick Setup	Event / Audio Detection				
> System	Audio Detection				
 Network 	Sensitivity			3	
> Video				3	
> Audio	Activation Time			1 sec.	
Event Action	🗷 Use Ignoring Time	18:00 ~	09:00		
- Event	Audio Ignore Interval	Never		-	
Alarm In 🔸					
Motion Detection	Event Action				
Trip-Zone +	Alarm Out	Image Attachment			
Audio Detection	Remote Callback				
Tampering +	FTP Upload Record				
System Event	"Event Action should be set for norma	Loneration			
	Event Action should be set for normal	i operation:			
Save					

- **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.
 - Alarm Out: Select if you wish to generate an alarm out.
 - **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.
 - Record: Select this option to record video.

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.

		- ² idis			
Quick Setup	Event / Tampering				
> System	Z Tampering				
Network	Sensitivity	3			
→ Video		_			
> Audio	Activation Time	1 sec.			
Event Action Event Alarm In	Vse Ignoring Time 18:00	e ~ 09:00			
Motion Detection , Trip-Zone , Audio Detection , Tampering , System svent ,	Event Action Alarm Out Gene Tenal Remote Callback Dubo Alarm FPD Upload Record				
	'svent action should be set for normal operation				
Save					

- **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.
 - Alarm Out: Select if you wish to generate an alarm out.
 - **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.
 - **Audio Alarm**: Select this option to generate an audio alert and then choose an audio file (.wav).
 - **FTP Upload**: Select this option if you wish to upload images to the FTP server.
 - Record: Select this option to record video.



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



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

			IDIS
Quick Setup	Event / System Event		
> System			
Network	System Alive	Interval 1 hr.	
+ Video	Send Email	unervar 11. •	
> Audio	Remote Callback	1 1 2 3 4 5	
Event Action			
* Event	🗷 Alarm In Bad		
Alarm In +		Interval 1 hr.	
Motion Detection +	Send Email Remote Callback		
Tnp-Zone +	C. Minute Caliback		
Audio Detection	Disk In/Out		
Tampering +			
System Event	Send Email		
	Remote Callback	1 2 3 4 5	
		Save	

- **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.

- Alarm In Bad: Select to check the alarm in status and then set up a schedule.
 - **Send Email**: Select to send out an email if no change is detected in the alarm in status.
 - **Remote Callback:** Select this option to send a message to a remote system when the SD memory card is inserted/removed and then select which system to send the message to.
- **Disk In/Out**: Select to check if the SD memory card has been inserted/removed.
 - **Send Email**: Select to send out an email when the SD memory card is inserted/removed.
 - Remote Callback: Select this option to send a message to a remote system when the SD memory card is inserted/removed 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 2 - IDIS Web

IDIS Web is a program that allows you to view and search 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[®] Windows[®] XP (Service Pack 3), Microsoft[®] Windows[®] Vista (Service Pack 1), Microsoft[®] Windows[®] 7 (Home Premium, Professional, Ultimate), Microsoft[®] Windows[®] 8 (Pro, Enterprise)
- 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 \rightarrow Internet Options \rightarrow Advanced \rightarrow Security \rightarrow 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		P IDIS
ID Password		LOGIN
•	LIVE-PORT 🗭	PLAY-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.				
	Used to control zoom and focus at a remote location.				
	🔹 💽 One pu	sh button			
	- Press th	is button to find the optimum focus auto	matically.		
12	 It is recommended to get an approximate focus using the manual focusing button before pressing the one push button for fast and efficient focusing. 				
	- This button is not supported in the ONVIF protocol.				
	• 🕀 🖸 Zoom buttons				
	• 💿 🔿 Focusing buttons				
ß	Used to adjust live video quality.				
14	Click on or to control the alarm out device connected to the camera.				
	Event status window at the bottom of the screen displays a list of events detected at remote locale				
•	_ / _	Enable/Disable Alarm In		Tampering	
U	£	Motion Detection	₽	Audio Detection	
	<u></u>	Trip zone			

Right-click on the screen to display the pop-up menu. Click to enable or disable each function.			Change Camera Title Enable Audio	
Change Camera Title: Used to change the camera's name.			Aspect Ratio	
Renaming the camera in Web Live mode does not affect the camera's name on			MultiStream	
	emote system. If no name is entered for the camera, the name used at the	\checkmark	Anti-Aliasing Screen	
	te locale is shown on the screen.		Mouse PTZ Control	
2	Enables transmission of audio to the remote locale via microphone.			
• Enable Au	dio : Enables audio transmission with remote locales. Select to display	1	■≥ buttons.	
•	Enables playback of audio from the remote locale on speakers.			
	Enables two-way audio communication with the remote locale.			
×	Disables audio transmission.			
came	remote locale connected to supports audio transmission, () icon appears on r ra screen. t io : Change the aspect ratio of the video displayed on the screen.	the d	corresponding	
- Fit to Sc	reen: Fit the video to the size of the camera screen.			
- Fit to As	pect Ratio: Resizes camera screen to original aspect ratio of the video	э.		
	e (x0.5) - 4 Times Bigger (x4) : Displays the camera videos in the selective of the video. For example, original size (x1) displays the video in it			

6

- (x0.5) through 4 times larger (x4) options are only available if there is enough space on the camera screen to accommodate the selected size.
- MultiStream: If the camera is running on multi-stream mode, you can choose between the streams.
- Anti-Aliasing Screen: Removes stair step effect (blocks) that are caused when zooming a video to improve overall quality of video output.
- Mouse PTZ Control: Scrolling the mouse wheel zooms in or out.

Web Search Mode

A remote web search program that allows you to search for recordings from remote locales in real-time.



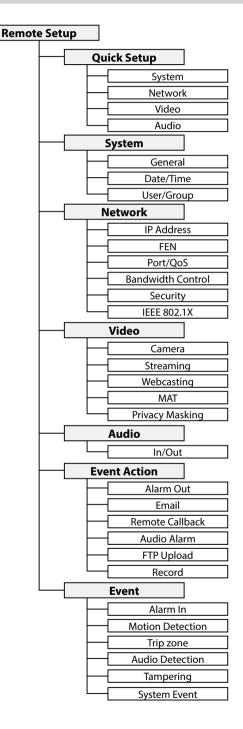


0	Press 🗷 to terminate IDIS Web.
2	Place the mouse pointer on the logo to check IDIS Web's version.
3	Displays time information of the video recording from the remote locale.
4	Click 🔳 to view the video in full screen. Press the ESC key on the keyboard to return to the previous screen.
6	Click 🔄 to print the current video screen using a printer connected to the computer.
6	Click 🔜 to save the video recording as an executable file.
7	Click 🔜 to save the current video screen as an image file.
8	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.

9	Click 💽 to switch over to Web Live mode.				
0	Shows login information.				
0	Indicates the camera's number.				
Ø	Zoom in or out on the video.				
ß	Adjust image brightness.				
	Apply image filters (Sharpen, Blur, Equalizer, Interpolation, and Revert) to the images.				
0	Image calibration is applied only during the paused state.				
	Use the calendar to search for video recordings by specific dates.				
6	Dates containing video recordings are highlighted in light blue. Selecting a date containing video recording data loads the earliest recording from that date. Selected date is highlighted in orange.				
6	Select TimeLapse to enable time lapse search mode and search/playback video recordings in chronological order. In time lapse search mode, video recordings can be searched by selecting specific dates on the calendar. Time information of video recordings found on the selected dates is shown on the time table at the bottom of the screen. Select a point in time to display video from that moment. If multiple recordings are available for the selected point in time, you can select the desired segment.				
Ø	Select Event to enable event search mode and search for events matching user-designated parameters.				
	Use the playback controls to play back video.				
	Go to First Fast Forward				
13	Image: Play by Frame (backwards) Image: Play by Frame (forwards)				
	Rewind D Go to Last				
	Play/Pause				
19	Click Gato to designate recent recordings you wish to search and then jump to a specific point in the recording.				
20	Click Reload to reload recent video recordings from remote locales.				
2)	Indicates the camera's recording data on a time bar. If the camera's system clock has been changed to a point in the past and more than one recording exists at the same point in time as a result, you will be able to choose which segment to search from the segment menu on the upper right portion of the time table.				

	Right-click on the screen to display the pop-up menu. Click to enable or disable each function.	Change Camera Title Enable Audio			
	Change Camera Title: Used to change the camera's name.	Aspect Ratio			
	Renaming the camera in Web Search mode does not affect the camera's name				
	on the remote system. If no name is entered for the camera, the name used at				
22	the remote locale is shown on the screen.				
	• Enable Audio: If audio was recorded with the video, enabling this option plays audio upon playback.				
	Aspect Ratio: Change the aspect ratio of the video displayed on the screen.				
	Anti-Aliasing Screen: Removes stair step effect (blocks) that are caused when a improve overall quality of video output.	zooming a video to			

Setup Menu Tree (Remote Setup)



Index		Q	
		Quality	22
c		R	
Camera Name	9	Remote Port	14
Compression	22	Resolution	22
D		RTSP Port	14
Date/Time	10	S	
DSCP	14	SSL	16
F		т	
FEN Name	13	Time Sync	10
FEN Server	13	,	
Frame Rate	22	U	
		Use FEN	13
I		Use HTTPS	14
IDIS Web port	14	User/Group	11
IPFiltering	16	Use UPnP	14
Μ			
MAT	24		
Ν			
Network Bandwidth Limit	15		
0			
ONVIF Protocol	9		



IDIS Co., Ltd.

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