User's Guide

TRENDNET



4-Channel HD CCTV DVR Surveillance Kit 8-Channel HD CCTV DVR Surveillance Kit

TV-DVR104K / TV-DVR208K

TV-DVR104K / TV-DVR208K

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Product Overview



TV-DVR104K



TV-DVR208K

Features

TRENDnet's 4 or 8 -Channel HD CCTV DVR Surveillance Kit, model TV-DVR104K or TV-DVR208K, offers a comprehensive video, storage, and management solution. The DVR kit comes with a pre-installed 1 TB hard drive plus four 1080p HD IR analog cameras, each with an IP66 outdoor weather rating. With a plug and play camera installation, the DVR is simple to use and conveniently powers all four or eight cameras. Connect your TRENDnet DVR kit to your network for local and remote access to your surveillance system. Record one week of continuous video and utilize the advanced video playback features from the intuitive user interface.

Package Contents

TV-DVR104K / TV-DVR208K package includes:

- TV-DVR104 or TV-DVR208
- 4 or 8 x TV-AC100 cameras
- 4 or 8 x BNC/power cables
- 1TB HDD
- Camera power splitter cable (2 for TV-DVR208K)
- Network cable (1.8 m / 6 ft.)
- HDMI cable
- Optical mouse
- CD-ROM (Utility / User's Guide)
- Quick Installation Guide
- Power adapter for DVR (12 V DC, 1.5 A)
- Power adapter for cameras (12 V DC, 2 A) (2 for TV-DVR208K)

If any package content is missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased.

TV-DVR104K / TV-DVR208K

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Back Panel



Picture showing TV-DVR208K as example

Power:	Power socket of DVR (12V DC)
	Note: Use only the adapter that came with your DVR
Audio In:	RCA connector to active microphone
Audio Out:	RCA connector to speaker
VGA:	Connect to VGA monitor with 1024 x 768 resolution or higher.
HDMI:	Connect to monitor or HDTV with HDMI interface
USB:	Connect to optical mouse and/or optional keyboard.
Network Port:	Connect to your office or home network for remote access and viewing.
BNC:	Connect Analog cameras.
Grounding Point:	Connect to grounding wire. This is especially important when you install your camera outdoor.

Hardware installation

TV-DVR104K / TV-DVR208K comes with everything you need to set up a basic network surveillance system. Just connect to a monitor or HDTV (not included in this package), you can do the live view and settings on the DVR.

It is recommended to setup the system on your table before physically wiring and mounting the cameras.

Wiring for System Setup

Connect DVR to your network (optional)

If you want to remote access the DVR and want to install the DVR on your home network, you can connect the DVR to the network in the first beginning, by connecting one end of your network cable to your home router or network switch, and then connect the other end of the cable to the network port on the DVR.

The DVR install cameras automatically after power up. If you decide the let the DVR gets its IP dynamically or setup the IP address to your network, please setup your DVR without camera connected. After the IP set up, power off the DVR and then going through the installation again.

Connect to the cameras

Using the included BNC cables connect the TV-AC100 camera's BNC port to any of the BNC ports on the DVR. And the camera power adapter will provide power to the cameras via the power splitter.

TV-DVR104K / TV-DVR208K

Connect to the monitor or TV Connect a monitor to either the HDMI or VGA port.

Connect the mouse

Connect the included mouse to one of the USB ports.

DVR Installation

Setup a safe and secured place for your DVR. Place it in a locked or not easy accessed place can add more factors in the security. Connecting to a UPS (Uninterruptible Power Supply) is recommended.

Provide a good ventilation and away from clusters and damp environment is also important to the location of your DVR device. Make the DVR installation accessible for annual maintenance to clean up the fan or replace the hard drive is a decent consideration for maintenance.

Camera Installation

There are number of factors involved in a successful camera installation. Follow the suggested installation steps and go through the check lists. This guide will help you make your camera installation smoothly and easily.

Viewing angle

The TV-AC100 is a bullet camera with a focused viewing angle (83° horizontal) that provides non-distorted and detailed images. Choose the location where has good angle to shoot the image you expect to see. The motion detection area should also be considered when installing the camera.

Weather conditions

The TV-AC100 is a small bullet camera, which fits most installations indoor and outdoor. The camera can work under a wide range of weather conditions.

For severe weather conditions, a camera housing with temperature and moisture control is recommended. Using the camera in milder weather conditions will help extend the camera's product life and preserve the quality of the video image.

- **Moisture:** Avoid damp or moist environments whenever you can. The TV-AC100 is an IP66 grade water proof camera, and it will work in moist environments. However, rain may affect the picture quality, especially at night, water may reflect the light from the infra-red illumination and degrade picture quality.
- **Temperature:** TV-AC100 works within a specified temperature range. Areas with severe temperatures should be avoided when installing the camera. It's recommended that you use an enclosure with a heater and blower if you plan on using this camera outside of the specified temperature range.
- **Sunlight:** Avoid direct sun light exposure into the lens. Direct sun light will damage the image sensor. If sunlight is necessary for your viewing purposes, provide protection for the image sensor.
- Lighting: Consider installing your camera faces the same direction of the light sources. Shooting images with top-down position outdoor or next to the existing light source are good choices. Avoid the light source if it creates a shade that darkens the viewing area.

Basic System Setup

Soft Keyboard Instruction

Keyboard styles

There are three keyboard styles available, English letter, numeric, and special characters. The default keyboard style is English letter keyboard in lower case letter mode. Click the keyboard style button if you want to change it into another style.



Special characters

1	2	3	Ŀ	-
4	5	6	_	:
7	8	9	1	@
	0	#+=		×
ABC				

Click on #++ key to the lower left corner to enable the special character menu. Click on the special character of your choice.

Setup Wizard

If you are accessing the DVR for the first time, the device will go through these basic settings. Please follow the onscreen display to complete these information.

1. If you are accessing the DVR the first time, please activate the device by following the password setup.

	Activation		
Username	admin		
New Password			0
Confirm Passw			o
must be betwe least one: Spe	sword. For your se een 8 and 16 chara icial character (!, @ er case character	acters and	contain at
0		ок	Cancel

2. Once the new password is set, the device will be activated.



3. Create the unlock pattern for quick access later.



4. Setup wizard will show up after the DVR is powered up. Select the language and click **Next** to start the wizard.

		Language		
System Language	English			-
			Apply	Exit



5. Click the selection list to the right of **Time Zone**.

	Wizard		
Time Zone (GMT-08:00) Pacific Time(U.S. & Canada) Date Format MM-DD-YYYY System Date 10-08-2014 System Time 11:22:45			5. Time Zone 6. Date Forma 7. Date 8. Time
	Previous Next	Exit	

Select your time zone, click the selection list to the right of **Date Format** and then select a date format.

Click the selection list to the right of **System Date**.

- Select the year by clicking on left or right arrow.
- Select the month by clicking on left or right arrow.
- Select the day by clicking on the date.

Click the selection list to the right of **System Time** and then enter the time with 24-hour format.

Click Next.

6. Configure the IPv4 address of the DVR then click "Next".



7. Configure the desired port values and dynamic DNS account information then click "Next".

Wizard			
Server Port	8000		
HTTP Port	80		
RTSP Port	554		
Enable UPnP	2		
Enable DDNS			
DDNS Type			
Device Domain Name			
	Previous	Next	Exit

8. Select the hard drive and then click **Init** to initiate your hard drive if you are running the setup wizard in later time and want to clean up the video on the hard drive. Then click "OK".

		Wizard			
Label	Capacity	Status	Property	Туре	Free Space
21	931.51GB	Normal	R/W	Local	927GB
					Init
		Previous	ОК	_	Exit

9. Configure the DVR to continuously record at all times or to record only motion detected events

Wizerd			
Continuous			
Motion Detection			
	Previous	ок	Exit

10. Congratulations! You have completed the configuration of the DVR. You can now view live cameras and access additional options by right clicking on the display to bring up the configuration menu.

System Management (local)

With the basic system setup, your system is now up and running. Now, you can use your mouse pointer and monitor to view, set up, and manage your network video recorder.

Using the Short Menu

Right click your mouse while you are viewing the live video. The short menu will be popped out.



Short Menu Menu: Click to show the main menu Single Screen: Display video live view one at a time. Click on Single Screen and then choose the camera you want. (The video you choose will be replaced with other video if the auto-switch is on, and the autoswitch is on by default.) Menu 🖷 Single Screen 📡 01 59 Multi-screen 02 Previous Screen 03 → Next Screen 04 Stop Auto-switch Multi-screen: Display all four video live views at the same time. By default, the video live view is set in the Multiscreen mode. If you are now in Single Screen mode, click on Multi-Screen and then choose 2 x 2 to switch to multi-screen live view mode. Menu Single Screen Multi-screen ⊞ 2*2 Previous Screen → Next Screen Stop Auto-switch Start Recording Ū, Playback **Output Mode** Previous Screen: In Single Screen mode, you can manually switch the video to the previous channel.

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Next Screen:	In Single Screen mode, you can manually switch		
	the video to the next channel.		
Stop/ Start Auto-	Start (default) or stop automatic live view switch.		
switch:	The live view video will be changed by channel		
	sequence.		
Start Recording:	Start Continuous or Motion Detection recording.		
	A Menu		
	T Single Screen		
	₩ Multi-screen		
	← Previous Screen		
	→ Next Screen		
	Stop Auto-switch		
	Start Recording		
	Playback		
	* Output Mode		
	To set up motion detection area, or stop continuous and		
	motion detection recordings, you need to navigate to the		
	detailed settings through the main menu.		
Playback:	Click Playback to go full playback menu. For more		
	information, please reference the please see the		
	Video playback on page 51 for more details.		
	♠ Menu		
	T Single Screen		
	₩ Multi-screen		
	← Previous Screen		
	→ Next Screen		
	Stop Auto-switch		
	Start Recording		
	Playback		
	* Output Mode		

Picture Mode: Select a monitor display setting from Standard, Bright, Gentle, and Vivid of your choice. Click OK to confirm your choice



Note: PTZ cameras are not included in the package, therefore the PTZ control is not supported.

Shortcut Menu

Each video in live view has a short cut menu to perform the frequent adjustments of the video. Move your mouse pointer over the camera display you want to bring up the **Shortcut Menu**. Click on the video. The frame of the video shows active (yellow frame). And then click on the button of the selected jobs.





Instant playback

Click on 腕 to playback the last 5 minutes of recording.

Audio

Click on $\overset{\bullet}{\bullet}$ to enable the audio on selected channel. Click $\overset{\bullet}{\bullet}$ to mute the audio.

PTZ control

Click on to proceed PTZ operations. *PTZ cameras are not included in the package, therefore the PTZ control is not supported.*

Digital zoom

Click on **a** to enable digital zoom. The digital zoom is not supported with the included cameras

Image settings

Click on 🔙 to adjust the video display settings.



- Use the slider to adjust the brightness.
 Use the slider to adjust the contrast.
 Use the slider to adjust the saturation.
 Use the slider to adjust color hue.
 Use the slider to adjust the sharpness.
 Use slider to adjust to noise level.

Click on 💂 to close the shortcut menu.

Using the Main Menu

Right click your mouse while you are viewing the live video. The short menu will be popped out. Mouse over the **Menu** and click the button to bring up the **Main Menu**.



Login to the Management Pages

The DVR will ask you to enter the password every time you want to login to the management page. Enter the password and then click on **OK** to bring up the main menu.





Logout, start up, or shut down the DVR

When you want to change the DVR settings, manage the cameras proceed system maintenance or software upgrade, you need to log in, log out, restart, or shut down your DVR gently.

Pulling out the power source may cause unexpected hard drive damage and system malfunction which is not a suggested way to power down your DVR.

Startup your DVR

Make sure the power supply is plugged into an electrical outlet. It is highly recommended that an uninterruptible power supply (UPS) to be used in conjunction with the unit.

Shutdown your DVR

Bring up the main menu. Click on Shutdown Menu



sub menu is showing up.



Click Shutdown to gracefully end the recording sessions and prepare the

hard drive for shutting down. Then click the Yes to confirm that you want to shut down the DVR.



Rebooting your DVR

Click **Reboot** to reboot your DVR without power down.

Log out from DVR management

When you have done the DVR settings and managements, you'll want to lock your DVR before you leave. Click **Logout** to exit the DVR management.

Note: You can also set automatic time out. The default setting is 5 minutes without management interaction.

Camera Management

Setting and manage your cameras by bring up the main menu. Click on

Camera Management



OSD



Camera:	Display the current camera number.
Status:	Enter a camera name.
Display Name:	Enable this to display the camera name on the screen.
Display Date:	Enable this to display the date on the screen.
Display Week:	Enable this to display the week info on the screen.
Date Format:	Select the date format you would like to use.
Time Format:	Select the time format you would like to use.

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Display Mode:	Select the ideal display style on the screen.
OSD Font:	Select the font for the OSD, there are 16x16, 32x32 and 64x64 formats.

Click **Apply** to apply the settings.

Display Settings

Adjust video image quality, lightness, and color settings here.



Camera:Click to choose the camera you want to change the settings.Time Segment:The name of the chosen camera.Brightness:Use the slider or enter a number (0-255) to adjust the image brightness. Default: 128Contrast:Use the slider to adjust the image contrast. Default: 128

	Use the slider to adjust the color saturation. The greater number means the color will be more saturated. Default: 128
	Use the slider to adjust the image HUE setting. Default: 128
Sharpness:	Adjust the sharpness of the image.
Denoising	Adjust the noise affect level.

Select the Camera Parameters Settings to adjust the sensitivity of the IR.



Click **Apply** to apply the settings.

<u>PTZ</u>

TV-DVR104K / TV-DVR208K come with fixed cameras, this section do not apply to either models.

Motion Detection

Set up how the motion detection event will be triggered and what actions will be triggered.

		Camera Mana	gement		
∎ OSD	Motion Detection				
Display Settings	Camera	[01] 01			
	Enable Motion Detection				
o PTZ			Settings	•	
Motion Detection		and at	Sensitivity		h
Privacy Mask		. Bill	Full Scree	en	
Video Tamper	2	a start	Clear		
Video Loss					
⊘ Video Quality Diagn					
A Live View			Cop	y Apply	Back

Camera:	Click to choose the camera you want to change the settings.
	Check this box to enable motion detection. Click Apply to apply the choice.
Settings:	Setup the motion detection detail.
Sensitivity:	Move the slider to adjust detection sensitivity. Sliding to the right means the motion event is easier to be triggered.
Draw Area:	Click and drag on the area you want to set up the motion detection or click Full Screen for the whole image area. The red grids represent the motion detection area. Click Clear to clear the motion detection areas.

Privacy Mask

Create a masking area to keep your privacy.

Camera Management					
💕 OSD	Privacy Mask Settings				
🕏 Display Settings	Camera	[01] 01			
5 PTZ	Enable Privacy Mask				
			Clear All		
1 Motion Detection	and View in	an and an	Clear Mask 1		
Privacy Mask >	IN THE CO	1 Bill	Clear Mask 2		
Video Tamper	Selection and		Clear Mask 3		
🗇 Video Loss		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Clear Mask 4		
Ø Video Quality Diagn					
♠ Live View			Сору	Apply	Back

Camera:	Click to choose the camera you want to change the settings.
Enable Privacy Mask:	Check this box to enable privacy masking.
Draw Area:	Click and drag on the area you want to set up the privacy mask.
Clear All:	Click this button to clear all the masking area.
Clear Zone 1 to 4:	Click this button to clear specific masking area.

Click **Apply** to apply the settings.

Video Tamper

Detects if a camera has been tampered with and surveillance is compromised. You can set up video tamper notifications to alert the system manager to check the camera.



Camera:	Click to choose the camera you want to change the settings.
Enable Tamper- proof:	Check this box to enable video tamper.
Draw Area:	Click and drag on the area you want to set up the video tamper.
Clear:	Click this button to clear the video tamper area.
Sensitivity:	Move the slider to adjust detection sensitivity. Sliding to the right means the motion event is easier to be triggered.

Video tamper settings

Click **Settings** to bring out the detailed set up menu.

Arming Schedule

Day of the Week	Mon						
	00:00-24:	00:00-24:00					
	00:00-00:	00:00-00:00					
	00:00-00:	00:00-00:00					
	00:00-00:	00					
	00:00-00:	00:00-00:00					
	00:00-00:	00					
	00:00-00:	00:00-00:00					
	00:00-00:	00					

1. Select day of the week you want to edit on the row of **Week**.



2. Enter the period of time you want to actively detect the motion events.



Copy to:

To quickly setup the same schedule over the week, click **Copy**. Click another day of the week (1: Monday, 2: Tuesday, 3: Wednesday, 4: Thursday, 5: Friday, 6: Saturday and 7: Sunday). Click **All** to select the whole week. Click **OK** after you select the day of the week you want to copy to.

	Copy to										
All	■ 1 ■ 7	∎2	∎3	∎4	∎5	6					
				ок		Cancel					

Induced Action

When motion event detected, the corresponding actions will be executed.

Settings	
Arming Schedule Induced Actions	
Full Screen Monitoring	
Audible Warning	
Send Email	
Upload Captured Pictures To Cloud	
Trigger Alarm Output	
Apply OK	Cancel

Select the options to enable the notification action and click **OK**.

Video Loss

Detects if a camera has lost its video. You can set up video loss notifications to alert the system manager to check the camera.

		Camera Manager	nent			
¢ OSD	Video Loss					
Display Settings	Camera	[01] 01				
PTZ	Enable Video Loss Alarm		Settings	•		
Motion Detection			ootings			
Privacy Mask	in the second se	5d				
Video Tamper	A Carlos and and					
Video Loss 🧃 🔹		さいらんの	3			
Video Quality Diagn						
Live View			Co	av.	Apply	Back

Camera: Click to choose the camera you want to change the settings.

Click **Apply** to apply the settings.

Video loss settings

Click Settings to bring out the detailed set up menu.

Arming Schedule

Day of the Week	Mon						
	00:00-24:	00					
	00:00-00:	00:00-00:00					
	00:00-00:	00					
	00:00-00:	00					
	00:00-00:	00					
	00:00-00:	00					
	00:00-00:	00:00-00:00					
	00:00-00:	:00					

1. Select day of the week you want to edit on the row of Week.



2. Enter the period of time you want to actively detect the motion events.



Copy to:

To quickly setup the same schedule over the week, click Copy. Click another day of the week (1: Monday, 2: Tuesday, 3: Wednesday, 4: Thursday, 5: Friday, 6: Saturday and 7: Sunday). Click All to select the whole week. Click OK after you select the day of the week you want to copy to.

	Copy to										
All	■ 1 ■ 7	∎2	∎3	■4	∎5	■6					
				OK		Cancel					

Induced Action

When motion event detected, the corresponding actions will be executed.

		Settings		
Arming Schedule	Induced Actions			
Full Screen Mo	nitoring			
Audible Warnin	ıg			
Send Email				
Upload Capture	ed Pictures To Cloud			
Trigger Alarm C	Dutput			
		Annha	01	Ormal
		Apply	ок	Cancel

Select the options to enable the notification action and click OK.

Video Quality Diagnostics

Detects if a camera's video quality. You can set up video quality notifications to alert the system manager to check the camera.

		Camera N	lanagement				
r osd	Video Quality Diagnostic	s					
Display Settings	Camera	[01] 01					
er Display Settings	Enable Video Quality E	Diagnostics					
o PTZ		succession in the second	Settings				
X Motion Detection			Diagnostics Mode	Threshold			
Privacy Mask	A start	THE CE IN THE	Blurred In	n		60	
			Abnorma			55	
Video Tamper			Color Ca	st		60	
2 Video Loss							
Video Quality Diagn							
video addiny biogri		k					
Live View			Default	Сору	Apply	Back	

Video Quality settings

Click **Settings** to bring out the detailed set up menu.

Arming Schedule

Arming Schedule Indu	ced Actions	Settings				
Day of the Week	Mon					
	00:00-24:	:00				
2	00:00-00:	:00				
	00:00-00:	00:00-00:00				
4	00:00-00:	00:00-00:00				
	00:00-00:	:00				
6	00:00-00:	00				
	00:00-00:	00:00-00:00				
8	00:00-00:	:00				
	Сору	Apply	ок	Cancel		

1. Select day of the week you want to edit on the row of **Week**.



2. Enter the period of time you want to actively detect the motion events.

0:00-	24:	:00							
00	*	1:[00	-	24	:	00	-	

Copy to:

To quickly setup the same schedule over the week, click **Copy**. Click another day of the week (1: Monday, 2: Tuesday, 3: Wednesday, 4: Thursday, 5: Friday, 6: Saturday and 7: Sunday). Click All to select the

whole week. Click **OK** after you select the day of the week you want to copy to.



Induced Action

When motion event detected, the corresponding actions will be executed.

		Settings		
Arming Schedule	Induced Actions			
Full Screen M	onitoring			
Audible Warni	ng			
Send Email				
Upload Captur	red Pictures To Cloud			
Trigger Alarm	Output			
		Apply	OK	Cancel

Select the options to enable the notification action and click **OK**.

System Configuration Menu

Setting and manage your DVR system by bring up the main menu. Click on

System Configuration Menu



Configuration

General

Set up the basic time, display resolution, and operation settings here.

			Configuration		
General	General DST Settings Mo	ore Se	ttings		
ä Network	Language		English		
ou Network	VGA/HDMI Resolution		1280'720/60HZ		
Alarm	Time Zone		(GMT-08:00) Pacific Time(U.S. & Canada)		
Live View	Date Format		MM-DD-YYYY		
Cive view	System Date		10-25-2016		-
Exceptions	System Time		16:51:23		٠
user .	Mouse Pointer Speed				
	Enable Wizard	k	•		
	Enable Password				
A Live View				Apply	Back

General	
Language:	DVR default language is setting to English.
Resolution:	The default monitor resolution is set to the lowest option (1024 by 768) to maximize the monitor compatibility. Choose a better resolution for your monitor to see better quality video.
Time Zone:	Click the selection list to the right of Time Zone .
Date Format:	Click the selection list to the right of Date Format and then select a date format.
System Date:	Click the selection list to the right of System Date .
System Time:	Click the selection list to the right of System Time and then enter the time with 24-hour format.
Mouse Pointer Speed:	Setting the mouse cursor moving speed. Adjusting to the right for faster speed.
Enable Wizard:	Enable or disable setup wizard every time the system is boot up. Default: Enabled.
Enable	You need to login for system management. Enable
Password:	password will ask entering password when login. Uncheck this box will set the management free to anyone physically access the DVR. Default: Enabled.

Click **Apply** to apply the changes.

DST settings

Set up Daylight Saving Time.

		Configura	ation			
General	General DST Settings	Nore Settings				
a Network	Auto DST Adjustment					
SS Network	Enable DST					
Alarm	From	Mar	✓ 2nd	- Sun		
 Live View 				- Sun		
	DST Bias	120 Minute				
✿ Live View					Apply	Back

Daylight saving time				
Auto DST	The daylight saving time adjustment is setting to			
adjustment:	automatic adjustment according to the time zone setting by default. If you want to set the daylight settings manually, uncheck this box to disable the automatic DST adjustment.			
Enable DST:	Manually enable or disable daylight saving time adjustment.			
From / To:	Enter the daylight saving time starting and end dates.			
Time Zone:	Click the selection list to the right of Time Zone .			
DST Bias:	Choose the amount of time shifting for daylight saving adjustment.			

Click **Apply** to apply the changes.

More settings

		Configuration		
General	, General DST Settings	pre Settings		
න Network	Device Name	TV-DVR104		
an Helwork	Auto Logout	5 Minutes		
Alarm	Menu Output Mode	Auto		
 Live View 				
▲ Exceptions				
4 User		k		
Live View			Apply	Back

More settings	
Device Name:	This is the name of the DVR. Default: TV-DVR104
Auto logout:	Set up the timeout to logout DVR management after management inactive for a period of time.
Menu Output	The video output is active for both HDMI and VGA
Mode:	interfaces.

Click **Apply** to apply the changes.

<u>Network</u>

Set up DVR network, DDNS, NTP, Email, and UPnP settings.

General

Setup the network interface connecting to the Internet.

		Configuration				
幸 General	General DDNS NTP Email	NAT More Settings				
- Network	Network Type	10M/100M Auto detection ~				
	Enable DHCP Client	2				
Alarm 🖈	IPv4 Address 192 .168 .32 .1	122 IPv6 Address 1 fe80::bead:28ff.fef8:4456/64				
Live View	IPv4 Subnet 255.255.255.0	0 IPv6 Address 2				
	IPv4 Default G 192 . 168 . 32 . 1	I IPv6 Default G				
Exceptions	MAC Address	bc:ad:28:f8:44:56				
a∔ User	MTU(Bytes)	1500				
	Enable DNS DHCP	0				
	Primary DNS Server	192.168.32.1				
	Secondary DNS Server					
♠ Live View		Apply Back				

Network General Set	Network General Settings				
NIC Type:	Choose one of the Ethernet duplex and speed to match your network. Default: 10/100M Auto detection.				
Enable DHCP:	Check this box if the IP address is assigned by DHCP server.				
IPv4 Address:	The IPv4 dynamic or static address				
IPv4 Subnet Mask:	Network range of the subnet				
IPv4 Default Gateway:	The default route going further from TV-AC100 IPv4 subnet				

IPv6 Address 1:	IPv6 self-assigned address including the subne prefix expression in the end of the string.
IPv6 Address 2:	IPv6 static address including the subnet prefi expression in the end of the string.
IPv6 Default Gateway:	The default route going further from IPv6 subnet
MAC Address:	The MAC address of the DVR network interface.
MTU:	Maximum transmission unit. The maximum field size in the Ethernet packet. Default: 1500
Preferred DNS:	Enter your first IPv4 or IPv6 DNS server address
Alternate DNS:	Enter your second IPv4 or IPv6 DNS server address

Click **Apply** to apply the changes.

DDNS

Dynamic Domain Name Service, DDNS, allows you to find your DVR from the Internet with an easy to remember domain name.

		Configuration	
🖶 General	General DDNS NTP Emai	NAT More Settings	
· Network	Enable DDNS		
- Network	DDNS Type	dyn.com	
Alarm	Server Address		
Live View	Device Domain Name		
Live view	Status	DDNS is disabled.	
Exceptions	Username		
User	Password		0
Live View		Apply	Back
IN LIVE VIEW		Аррту	Jack

DDNS	
Enable DDNS:	Check this box to enable DDNS Service.
DDNS Type:	Select a DDNS service provider: dyn.com or no- ip.com.
Server Address:	Enter the DDNS server address.
Device Domain	Enter your registered domain/host name on selected
Name:	DDNS service.
Status:	The DDNS connection status.
User Name:	Enter the account name.
Password:	Enter the password.
Confirm:	Enter the password again.

Click **Apply** to apply the changes.

NTP

Network Time Protocol Service. The accuracy of the system clock is important for scheduling and accurate logging. You can automatically check the time accuracy with a network time server (NTP server).

					Con	figuration		
General	General	DDNS	NTR	Email	NAT	More Settings		
Network	Enable	NTP						
- Text of a	Interval	(min)						
Alarm	NTP Se	rver						
Live View	NTP Po	ort						
▲ Exceptions ▲ User								
Live View							Apply	

NTP settings

Enable NTP:	Check this box to enable NTP Service.
Interval:	The time interval that the TV-DVR104 will synchronize the time with NTP server. Default: 60 minutes
NTP Server:	Specify a time server (NTP server) to synchronize with. (e.g. pool.ntp.org)
NTP Port:	The server port number. Default: 123.

Click **Apply** to apply the changes.

Email

Set up email accounts for notifications.

					Cont	iguration	
E General	General	DDNS	NTR	Email	NAT	More Settings	
Network	Enable	NTP					
N. S.	Interval	(min)					
Alarm	NTP Se	rver					
Live View	NTP Po	irt					
User							

Email	
Enable Server Authentication:	Check this box if your server requires a password in order to send email. Most email servers require authentication when sending an email.
User name:	Enter the user name of outgoing email account
Password:	Enter the password
SMTP Server:	Simple Mail Transportation Protocol Server address, the outgoing email server address. It may has address the same as your incoming email server, maybe not. Please ask your email service provider for detail.
SMTP Port:	Service port number for outgoing email.*
Sender:	Enter the name to be appeared as the email sender.
Sender's Address:	Enter sender's email address.

Select Receiver:	Select the pull down menu to select the receiver you want to set up the detail. You can send to 3 accounts at the same time, but just set up separately.
Receiver:	The receiver's name.
Receiver's	The receiver's email address.
Address:	

*Note: Many ISPs does not allow service port 25 going through their network. Please consult your email service provider and ISP for detail.

Click **Apply** to apply the changes.

Click **Test** to test if all the information are entered correctly.

NAT

To adjust the port settings for the DVR.

General	General DDNS	NTP	Email NAT	More Settings			
· Network	Enable UPnP		2				
- WEIWOIK	Mapping Type		Auto				
Alarm	Port Type	Edit	External Port	External IP Address	Port	UPnP Status	
 Live View 	HTTP Port		36102	64.32.141.246	201	Active	
	RTSP Port	1	51355	64.32.141.246	1026	Active	
Exceptions	Server Port		45308	64.32.141.246	8000	Active	
User	HTTPS Port		39810	64.32.141.246	443	Active	
							Refresh

Ports	
Port Type:	The service type for each port.
Http Port:	The port to access the camera's configuration page. Default value is port 80.
RTSP Port:	The Real-Time Streaming Protocol port for video streaming. You can change the port. The default port number is 554.
Server Port:	The service port number for DVR management. The default service port is 8000.
HTTPS Port:	Secured port to access the camera's configuration page. Default value is port 443.

Click **Apply** to apply the changes.

More settings

		Configuration	
🕸 General	General DDNS NTP Emai	NAT More Settings	
· Network	Server Port	8000	
- NOLWOIK	HTTP Port	201	
Alarm	RTSP Port	1026	
 Live View 	Output Bandwidth Limit		
	Output Bandwidth (Mbps)		
Exceptions			
user 🕹			
			×.
Live View			pply Back

More Settings	
Server Port:	The service port number for DVR management.
	The default service port of TV-DVR104 is 8000.
HTTP Port:	The default web access port. You can change the
	port number. The default port number is 80.
RTSP Port:	The Real-Time Streaming Protocol port for video
	streaming. You can change the port. The default
	port number is 554.
Output	Enable the output bandwidth can limit the output
Bandwidth Limit:	bandwidth for remove live view and playback.
Output	The minimum output bandwidth is 2Mbps
Bandwidth	
(Mbps):	

Click **Apply** to apply the changes.

Live View

Change the live view settings.

		Configuration		
General	General View Channel-Zer	o Encoding		
de Network	Video Output Interface	VGA/HDMI		
S NEWOK	Live View Mode	2*2		
Alarm 🖈	Dwell Time	10s		
@ Live View	Enable Audio Output			
LU THE ST WANT	Volume			
A Exceptions	Event Output	VGA/HDMI		
⊿∔ User	Full Screen Monitoring Dwell T	ime 10s		
♠ Live View			Apply Back	

General

Live view general s	ettings
Video Output	The video output interface is VGA or HDMI
Interface:	
Live View Mode:	Choose the default Live View mode to be 1x1 single video on the screen or 2x2 four video on the screen at the same time. Default: 2x2.
Dwell Time:	Set up how long each display will be showed up on the screen. There's no effect on 2x2 display mode. On 1x1 mode, each video will be shown on the screen for Dwell Time and then change to the next video. Default: 10 seconds.
Enable Audio Output:	Enable or disable audio output on the DVR. Default: disabled

Event Output:	Define where the video is going out when event triggered. The TV-DVR104 is set to both VGA and HDMI.
Full Screen	When event triggered full screen display, who long
Monitoring	the video is going to stay on the screen. Default: 10
Dwelling Time:	seconds.

Click **Apply** to apply the changes.

View

Setting live view display arrangement and sequence.



Live View Layout a	nd Sequence Settings		
Video Output	The video output interface is VGA or HDMI		
Interface:			
Camera List:	Installed cameras will be listed here by channel.		
Layout Panel:	· · · ·		
	To remove a camera from the display, just click 🛛		
	on the selected cell D3 🛛 to remove the		
	channel number. 🗴 💌		
	To assign a channel to a display cell, choose the		
	Missing Video: If you assign a channel to a display		
	cell and there's no video stream, the cell will be		
	blank.		
Control Panel:	: Single channel display		
	🖽 : Quad channel display		
	🕞 : Automatic channel assignment		
	Remove all channel assignments		



Click **Apply** to apply the changes.

Channel-Zero Encoding

Settings to improve remote multi-channel live view quality, it helps to decrease the bandwidth without affecting the image.

		Configuration		
& General	General View Channel-Zero E	incoding		
≈ Network	Enable Channel-Zero Encoding			
N INDIMOIN	Frame Rate	12fps		
Alarm	Max. Bitrate Mode	General		
D Live View	Max. Bitrate(Kbps)	1024		
u≴User				
Live View			Apply	Back

Enable Encoding:Enable the serviceFrame Rate:Configure the frame rate from 1/16fps to full fps.Max. BitrateAdjust the number between 448 to 2048. Default
value is 1024.

Click **Apply** to apply the changes.

Exceptions

Setup the action when exception happened. Select the exception you want to monitor and then choose the audible warning or email notification. Click **Apply** to apply the changes and remember to setup your email account if you choose the email notification

		Configuration		
General	Exception			
🕉 Network	Enable Event Hint			
No INSTRUCT	Event Hint Settings			
Alarm	Exception Type	HDD Full		
 Live View 	Audible Warning			
	Send Email			
Exceptions	Trigger Alarm Output			
⊉ User				
♠ Live View			Apply	Back

Exception Type	
	Any of the following exceptions will trigger the notification.
HDD Full:	By default, the recording video does not overwrite when the hard drive is full. You can set up an audio warning or send email to system manager to remove the recording. (You can also setup the DVR for automatic overwrite the recordings when the disk is full. Please see page 48 for more detail.)
HDD Error:	When the hard drive reading or writing error, the DVR can make audible sound or send email to system manager for the error. You can use the hard

	drive maintenance tools on the DVR checking and managing your hard drive. See page 43 for more detail.)
Network Disconnected:	The exception is triggered when network port is disconnected.
IP Conflicted:	The DVR is constantly monitoring if there's an IP conflict is happening. Exception is triggered when there's an IP conflict.
Illegal Login:	Exception is triggered when DVR detect the attempt login with wrong credential.
Record Exception:	Exception will be triggered when anything goes wrong during video recording process.

User Accounts

You can setup multiple user accounts to access the camera's video stream with a web browser or real time video stream (RTSP). Only one administrator account (username: **admin**) can be setup to configure DVR and cannot be deleted.



Add

Click Add button to add an account

Username	guest	
Password	**************************************	0
Confirm		0
Level	Guest	
User's MAC Address	00 :00 :00 :00 :00 :00	
	. For your security new password must be between 8 and 16	

Add account	
User:	Enter the user name.
Password:	Enter the password.
Confirm:	Enter the password again.
Level:	Select the user's level from Guest or Operator for the preset permissions. By default, an operator can view the video and operate the camera pan, tilt, and zoom. Guest can only view the video. DVR settings are only allowed to be changes with administrator account.
User's	Enter the user's MAC address limit the access to add on
MAC	security. Leave it 00:00:00:00:00:00 as wild card address if
Address:	you don't limit the access.

Edit

Click **Edit** *c*on user to change the account settings.

System Maintenance Menu

Manage your DVR system by bring up the main menu. Click on System

Maintenance Menu

icon.

System information

System Information is displaying here for system maintenance.

DVR information

System Info >	DVR Info Camera Record	Alarm Network Storage	
	Device Name	TV-DVR104	
Log Information	Model	TV-DVR104	
 Configuration File 	Serial No.	0420160912QCWR647709155WCVU	
Upgrade	Firmware Version	V3.4.75, Build 160929	
	Hardware Version	0x90a00	
± Default			
Network Monitoring			
Hard Drive Mainten			
Live View			Back

DVR Information

Device Name:	Human readable device name for easy
	identification. You can change this name in System
	configuration > More settings on page 27.
Model:	The model name of the TV-DVR104.
Serial Number:	The unique identification number of this device.
Firmware Version:	Firmware version
Encoding Version:	Encoding version

Camera Information

			-4-	em Maintenance			
System Info >	DVR Info	Camera	Record Alarm	Network Storage			
	Channel	Camera N	lame	Status	Motion Detection	Video Tamper	Video Loss
Log Information	01	01		Elabled	N/A	N/A	N/A
Sonfiguration File	02	02		Enabled	N/A	N/A	N/A
	03	03		Enabled	N/A	N/A	N/A
t Upgrade	04	04		Enabled	N/A	N/A	N/A
d Default							
Hard Drive Mainten							
A Live View							Back

Camera Information				
Camera No.:	The channel number camera assigned into.			
Camera Name:	Camera device name			
Status:	Showing the camera is connected or disconnected.			
Motion Detection:	Showing the status and setup of the camera			
	motion detection.			
Tamper-proof:	Showing the status and setup of the camera video			
	tamper detection.			
Video Loss:	Showing the status and setup of the video loss			
	detection.			

Recording Information

	System Info >	DVR Info	Camera	Record Alarm	Network	Storage			
		Channel	Recordin.	Stream Type	Frame Rate	Bitrate(Kbps)	Resolution	Record Type	Encoding P
9	Log Information	01	N/A	Video & Audio	12fps	2066/2048	1920*1080(10		Continuous
	Configuration File	02	N/A	Video	12fps	2100/2048	1920*1080(10		Continuous
		03	N/A	Video	12fps	140/2048	1920*1080(10		Continuous
	Upgrade	04	N/A	Video	12fps	138/2048	1920*1080(10		Continuous
t	Default								
8	Network Monitoring								
Q	Hard Drive Mainten								
	Live View								Back

Recording Status Information

Camera No.:	The channel number camera assigned into.
Recording Status:	Showing the status and setup of the video
	recording.
Frame Rate:	Showing the camera recording frame rate.
Bitrate:	Showing the camera recording video stream bitrate
	in thousands bits per second.
Resolution:	Showing the camera recording video resolution.
Record Type:	Showing the type of recording.
Encoding	Showing the encoding parameters.
Parameters:	

Alarm Information

Alarm function is not supported on these DVRs.
Network Information

		Syste	em Maintena	nce		
System Info	DVR Info Camera Record	d Alarm	Network	Storage		
֎ Log Information	IPv4 Address			192.168.32.122		
Sonfiguration File	IPv4 Subnet Mask			255.255.255.0		
	IPv4 Default Gateway			192.168.32.1		
t Upgrade	IPv6 Address 1		k	fe80::bead:28ff.fef8:4456/64		
➡ Default	IPv6 Address 2		~			
a Network Monitoring	IPv6 Default Gateway					
w retwork wontonitoring	MAC Address			bc:ad:28:f8:44:56		
Ø Hard Drive Mainten	Primary DNS Server			192.168.32.1		
	Secondary DNS Server					
	Enable DHCP Client			Enabled		
	Enable DNS DHCP			Enabled		
♣ Live View					Death	
The view					Back	

Network Interface	nformation
NIC:	Network Interface Card. LAN1 is the assigned network interface which represent to the non-PoE network port.
IPv4 Address:	The IPv4 address on this interface
IPv4 Subnet Mask:	Network range of the subnet
IPv4 Default Gateway:	The default route going further from TV-AC100 IPv4 subnet
IPv6 Address 1:	IPv6 self-assigned address including the subnet prefix expression in the end of the string.
IPv6 Address 2:	IPv6 static address including the subnet prefix expression in the end of the string.
IPv6 Default Gateway:	The default route going further from IPv6 subnet
Enable DHCP:	The IP address is assigned by DHCP server or not.

Storage Information

					Syste	m Maintena	nce			
• System	Info >	DVR Info	Camera	Record	Alarm	Network	Storage			
ê Log Info	ormation	Label	Statu	15		Capacity		Free Space	Property	
⊁ Configu	ration File									
t Upgrad	•				۲					
d Default										
aŭ Network	Monitoring									
Ø Hard Dr	ive Mainten									
		Total Ca	pacity		OME	B				
		Free Spa	sce		OME	8				
♠ Live Vie	w								В	ack

HDD Status Information

Label:	Index of the HDD. DVR has only one hard drive which is assigned on number one.
Status:	Showing the hard drive working condition.
Capacity:	The total hard drive storage capacity after formatting.
Free space:	Displays how much space is available free for video recordings.
Property:	R/W: Allow read and write.
Туре:	Local: The hard drive is installed on the DVR.
Group:	The HDD on DVR is assigned to the group 1.

TV-DVR104K / TV-DVR208K

Log Information

All DVR activities are registered on the log. Find the activity by searching with time range and log type. Click **Search** to start the search.

Log Search

		System Maintenance					
System Info	Log Information						
G Log Information >	Start Time	10-27-2016	-	00:00:00	•		
ig Log information	End Time	10-27-2016		23:59:59	•		
Source Configuration File	Major Type	All					
t Upgrade	Sub Type				^		
1 Opgrade	Alam Input						
➡ Default	Alarm Output						
a Network Monitoring	Motion Detection Started						
W Network Monitoring	Motion Detection Stopped	1					
Ø Hard Drive Mainten	☑Video Tampering Detection Started						
	☑Video Tampering Detection Stopped						
	☑Video Quality Diagnostics Alarm Started						
	✓Video Quality Diagnostics Alarm Stopped						
	Video Loss Alarm				×		
♠ Live View			Export All	Search	Back		

Log Search

Start Time:	The starting time of a log search.
End Time:	The end time of the time range for the log search.
Major Type:	Filter the search by type of logs: all, alarm,
	exceptions, operation, and information.
Minor Type:	Filter the search by type of logs. Select the major
	type and then choose the minor type.
	Alarm: Start motion detection, stop motion
	detection, start temper-proof, stop tamper-
	proof, and IP Camera Alarm.
	Exception: video loss, illegal login, HDD full, HDD
	error, IP conflict, network disconnect,
	recording exception, IP camera disconnection,

IP camera address conflict, recording buffer overflow.

Operation:

- power on, abnormal shutdown
- Local operations: shutdown, reboot, login, logout, configure parameters, upgrade, start recording, stop recording, PTZ control, lock file, unlock file, initialize HDD, add IP camera, delete IP camera, set IP camera, playback by file, playback by time, export configuration file, import configuration file, export recordings, restore administrator's password, operate tag, and HDD detect.
- Remote operations: reboot, login, logout, configure parameters, upgrade, start recording, stop recording, PTZ control, lock file, unlock file, initialize HDD, add IP camera, delete IP camera, set IP camera, playback / download by file, playback / download by time, export configuration file, import configuration file, export recordings, interrogate parameters, interrogate working status, start-two way audio, stop two-way audio, alarm arming, alarm disarming, and operate tag.
 Information: local HDD information, HDD
 S.M.A.R.T. start recording, stop recording, delete expired recording, and system running status.

Export

Click **Export** on this page to export log on the list.

		Export		
Device Name	USB Flash Disk 1-1		Refresh	
Name	Size Ty	pe Edit Date	Delete	Play
۰. ا	Fo	lder 05-15-2013 15:36	:38 -	
Config.txt	0B Fil	e 10-27-2016 11:37	:28 💼	۲
Firmware.dav	13.67MB Fil	e 09-22-2016 10:55	:56 🧰	۲
k				
Free Space	2430. New F	older Format	Export Ba	ick

Click **Export** again to export the log to the USB drive of your choice. Select the USB drive on the **Device Name** and then click **Refresh** if you want to change the drive. Click **New Folder** to create a new folder on current directory. Click **Format** to format this USB storage.

Configuration File

To save current or load previous DVR settings, choose the **Configuration File** page and then export the file to the USB drive or import the file.

		System M	aintenance				
 System Info 	Import/Export Configur	ration File					
E Log Information	Device Name	USB Flash Disk 1-1			Refres	h	
e cog mormation	Name		Size Type	Edit Date		Delete	Play
Configuration File	a		Folder	05-15-2013 15	5:36:38	-	-
t Upgrade	Config.txt	+	0B File	10-27-2016 11	1:37:28	1	0
1 Opgrade	Firmware.dav		13.67MB File	09-22-2016 10	0:55:56	1	0
d Default							
a Network Monitoring							
Ø Hard Drive Mainten							
	Free Space	2430.40	МВ				
A Live View			New Folder	Import	Export	Ba	ck

Click **Export** to export the settings to a file on the USB drive of your choice. Select the USB drive on the **Device Name** and then click **Refresh** if you want to change the drive. Click **New Folder** to create a new folder on current directory. Click **Format** to format this USB storage.

<u>Upgrade</u>

Local Upgrade

TRENDnet may periodically release firmware upgrades that might add features or fix problems associated with your TRENDnet model and version. To find out if there is a firmware upgrade available for your device, please check your TRENDnet model and version using the link.

http://www.trendnet.com/downloads/

- 1. If a firmware upgrade is available, download the firmware to your computer.
- 2. Unzip the file to a folder on your computer.
- 3. Read the firmware upgrade instruction for specific version update information.
- 4. Log into the TV-DVR104K / TV-DVR208K.
- 5. Getting to this Maintenance page to upgrade firmware.

Extract the firmware file from the downloaded zip file and then save it to the USB drive. Plug in the USB drive to one of the available USB slot on the DVR. Choose **Upgrade** page and then click on **Upgrade**.

		Sys	tem Maintenance			
System Info	Local Upgrade	TP Camera Upgr	ade			
Log Information	Device Name	USB Flash Dis	sk 1-1		Refresh	
e Log moniation	Name		Size Type	Edit Date	Delete	Play
 Configuration File 	• •		Folder	05-15-2013 15:36:38		-
Upgrade	Config.txt		0B File	10-27-2016 11:37:28		0
- opgrade	Firmware.dav	4	13.67MB File	09-22-2016 10:55:56	8	0
≠ Default						
Network Monitoring						
Hard Drive Mainten						
Live View				Upgrad	e Ba	

Remote Upgrade

You can setup the upgrade over the network with FTP protocol. To proceed FTP upgrade, you need to prepare a FTP server on the local network with username: **ftp** and password: **ftp**. Place the firmware file on the root directory when the **ftp** account is logging in the FTP server.

Navigate to the remote upgrade (**FTP**) page. Enter the FTP server address, and then click on **Upgrade**.

				ystem Maintenance		
 System info 	Local Upgrade	FTP	Camera Up	prade		
2 Log information	FTP Server A	ddress				
Configuration File						
) Upgrade						
z Default						
Network Monitoring						
Hard Drive Mainten						
Live View					Upgrade	Back

Factory Default

To reset your DVR to the factory default, navigate to this **Default** page and then click on **OK** to reset all DVR settings back to factory default.

		System Maintenance	
System Info	Default		
Log Information	Restore Defaults	Reset all parameters, except the IP parameters and user information.	
➤ Configuration File	Factory Defaults	Load complete factory defaults and restart the DVR.	
t Upgrade	and a second second		
🖙 Default 🔷 🔸			
త Network Monitoring			
Ø Hard Drive Mainten			
A Live View			Back

Network Monitoring

Traffic

To monitor the network traffic, navigate to the traffic chart.



Traffic

Link Status:	The network linking status.
Туре:	Type of network, Ethernet.
MAC Address:	Media Access Address of the network interface.
Link:	Maximum Link Speed.

Tools

Use Tools on the DVR to test the network status.

		System Mainter	nance		
System Info	Traffic Tools Stat	stics			
	Network Delay, Packe	Loss Test			
Log Information	Select NIC	LAN1			
Configuration File	Destination Address	192.168.32.1			Test
	Network Packet Export				
Upgrade	Device Name	USB Flash Disk 1-1			Refresh
: Default	LAN1	192.168.32.122	935bps		Export
Network Monitoring	>		×		
Hard Drive Mainten	2				
Live View			Status	Network	Back

Network delay and packet loss test

The basic PING test tool. Enter the testing destination IP address and then click on the **Test**.



Network packet export

Capture packets and save to external USB storage for network analysis. Plugin your USB network drive and then click Export to export the packet capture files. Click Refresh to list the directory on your USB storage again.

Network Packet Export			
Device Name	USB1-1		Refresh
LAN1	10.10.10.14	13Mbps	Export

Network Statistics

To review the network statistic information, navigate to the **Network Statistics** page. Click **Refresh** to update the information.

	System	n Maintenance	
System Info	Traffic Tools Statistics		
を Log Information	Type Remote Live View	Traffic Obps	
► Configuration File	Remote Playback	Obps 👌	
t Upgrade	Net Total Idie	72Mbps	
➡ Default			
Network Monitoring >			Refresh
Hard Drive Mainten			
♠ Live View			Back

TV-DVR104K / TV-DVR208K

Hard Drive Maintenance

S.M.A.R.T Settings

The S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) is a monitoring technology to detect and report on various performance and reliability factors to help predict and prevent disk failures.

System Info	S.M.A.F	R.T. Setting	Bad Sector D	etection						
Log Information	Continue to use this disk when s			elf-evaluation	is failed					
2 Log monitation	HDD									
Sonfiguration File	Self-t	est Status		Not tested						
1 Upgrade	Self-lest Type		Short Test							
	S.M.A.R.T. Temperature(" 33		Test							
⊂ Default			Self-evaluation F				Pass			
a Network Monitoring	Powe	r On (da	75 K			All-evaluat	lion	Functional		
Hard Drive Mainten >	S.M.A.	R.T. Inform	nation							
 Hard Drive Mainten > 	ID	Attribut	e Name	Status	Flags	Threshold	Value	Worst	Raw Value	^
	0x1	Raw R	ead Error Rate	ок	21	51	200	200	0	=
	0x3	Spin U	p Time	ок	27	21	173	168	2325	
	0x4	Start/S	lop Count	ок	32	0	100	100	200	
	0x5	Realloc	ated Sector Count	ок	33	140	200	200	0	*
♠ Live View								Appl	y Ba	-

S.M.A.R.T. Settings

Continue to use:	Check the Continue to use this disk when self-evaluation is failed if you want it to do so. Click Apply if you change this setting.
HDD:	The Disk number. The NVR has one HDD.
Capacity:	The total hard drive storage capacity after formatting.
Self-test Status:	Showing the self-testing status.

Self-test Type:	Choose a type of S.M.A.R.T. test: short, expanded, and conveyance tests.
S.M.A.R.T.:	Click 👻 to start S.M.A.R.T. test.
Temperature:	The temperature of the hard drive in Celsius.
Power on days:	Days the hard drive is on.
Self-evaluation:	The result of self-evaluation.
All-evaluation:	Functional evaluations.
S.M.A.R.T. Information:	Detailed S.M.A.R.T. hard drive information.

Bad Sector Detection

Detect if there's any bad sector on the disk drive.

		System Mainter	hance			
 System Info 	S.M.A.R.T. Settings	Bad Sector Detection				
Log Information	HDD No.	1	~ Key Ar	ea Detection		Detect
			HDD Capacity	931.52GB		
➤ Configuration File			Block Capacity	232.88MB		
1 Upgrade			Status	Not tested		
➡ Default		8	Error Count	0		
a Network Monitoring			Error in	fo F	°ause	Cancel
Hard Drive Mainten						
	Normal					
	Damaged					
	Shield					
						Back

	Bad Sector Detection
HDD No.:	The Disk number. The NVR has one HDD.
Capacity:	The total hard drive storage capacity after formatting.
Type of Detections:	Select key area detection or full detection.
Detect:	Click this button to start bad sector detection.
HDD Capacity:	The storage capacity of the hard drive.
Block Capacity:	The block capacity.
Status:	The status of bad sector detection.
Error count:	The total error count detected.
Error Info.	Detailed sector damage or shield information.
Pause:	Pause the bad sector detection once it start running.

Hard Drive Management

Manage and allocate your storage space by bring up the main menu. Click on

HDD Maintenance Menu icon.

Format/Initiate the Hard Drive

Select the hard drive and then click on **Init** to format and initialize the hard drive.

Image: Capacity Status Property Free Space Edit Delete Image: Capacity 931.52GB Normal R/W 931.00GB - - Image: Recording Time(day) 931.52GB Property Free Space Edit Delete Image: Capacity 931.52GB Property 931.00GB - - Image: Capacity 931.52GB Property Free Space 931.00GB Remaining Recording Time(day) N/A N/A - -	General	, HDD Informa	ation Cloud Storage					
Total Capacity 931.52GB Free Space 931.00GB		Label	Capacity	Status	Property	Free Space	Edit	Delete
Total Capacity 931.52GB Free Space 931.00GB	© Advanced	⊡1	931.52GB	Normal	R/W	931.00GB	-	199
Free Space 931.00GB			k					
		Free Space	e	931.00GB				

Scheduled Recording

Setup the video recording settings by bring up the main menu. Click on

Scheduled Recording Menu Record icon.

Schedule

Select the video channel, type of recording, and then click and drag on the weekly schedule. Click **Edit** to bring up the detailed schedule setting table or click **Copy** to copy the same schedule to other channel.

- Schedule	Recording	Sche	dule												
Video Settings	Channel					[01]	01								
e video Settiliga	Enable	Sched	ule			2				k					
Advanced		0	2	4	6	8	10	12	14	16	18	20	22	24	Edit
P Holiday	Mon													1	Continuous
, rioliday	Tue													2	
	Wed													3	Event
	Thu													4	Motion Dete
	Fri											S 10 (S)		5	Alarm
	Sat								1					6	MIA
	Sun													7	M & A
															Erase
Live View											Сору			Apply	Back

- 1. Select channel.
- Select recording type. Choose from Continuous or Motion recording. If you want to clear out some scheduled recording time, choose None.



 Select the time slots you want to make the scheduled recording. Each time slot represents a half hour interval. The row number represents the week of the day starting from Monday.



4. If you want to define the schedule in finer intervals, click on **Edit** button.



5. Make your selection and then click **Apply** to apply the changes.

		Edit								
Weekday		Mon								
All Day			Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
Start/End Time	00:00-00:00		😏 Туре	Continuous						
Start/End Time	00:00-00:00		🗿 Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
Start/End Time	00:00-00:00		🕒 Туре	Continuous						
	Сору	Apply	ОК	Cancel						

Schedule:	Select the day of the week
All Day:	Select if you want to setup the all-day recording.
Start/End Time:	Specify the starting and end of recording time in 24-hour format.
Туре:	Select Continuous or Motion Detection recording

Copy to:

To quickly setup the same schedule over the week, click **Copy**. Select the camera you would like to copy the settings to then click **OK**. By selecting the Analog option, the settings will copy to all cameras.

			Copy to		
Analog	01	v 02	V 03	■ 04	
			k		
				ок	Cancel

TRENDn<u>et User's Guide</u>

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Video Settings

Set up the video quality for recording (main stream), the higher video quality require larger storage space and better network condition. Please choose the best profile of your choice.

Schedule	Mainstream Substream	×.					
Mideo Collinso	Channel	[01] 01					
Video Settings	Camera Resolution	1080P30					
E Advanced	Encoding Parameters	Main Stream(Continuous	;)				
	Stream Type	Video & Audio					
n Holiday	Resolution	1920°1080(1080P)	1920°1080(1080P)				
	Bitrate Type	Constant					
	Video Quality	Medium					
	Frame Rate	12fps					
	Max. Bitrate Mode	General					
	Max. Bitrate(Kbps)	2048					
	Max. Average Bitrate(Kbps)	1440					
	Enable H.264+						
	More Settings						
Live View			Сору	Apply	Back		

Note: Settings in this section are not available all cameras. The DVR will prompt the message to remind you the setting is not available on selected camera.



Main Stream (Record) Settings

Camera: Select the camera you want to change the recording video quality.

Encoding Parameters:	The type of video from the camera.
Stream Type:	Select you want to stream video only or video and audio.
Resolution:	Select the video resolution.
Bitrate type:	The bitrate is the rate of information generated from the video. The higher bitrate means more data and more traffic and better video quality. Constant bitrate generates same amount of information over the same period of time. Variable bite rate takes one step further to compress the information whenever it can, therefore, generates the same or lower amount of information compare to the constant bitrate.
Video Quality:	Select the video compression algorithm.
Frame rate:	Select the frame rate to decide how many pictures you want to take in each second.
Max. Bitrate Mode:	Select General to set the maximum bitrate in certain brackets. Choose Customized to set the maximum bitrate on your own.
Max. Bitrate:	The maximum information allowed to record on the DVR in thousands of bits per second.
Max. Bitrate Range Recommended:	Recommended bitrate setting.
Pre-Record:	If the recording is triggered by the motion event, this value specifies to start recording some period of time before the motion event happened.
Post-Record:	If the recording is triggered by the motion event, this value specifies to record video some period of time after the motion event happened.
Expired Time:	Lock the recording video for some period of time (in days) to prevent accidentally been overwrite or delete.
Record Audio:	Recording audio or not.

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Sub Stream

The sub stream video is mainly for DVR live view. Change your camera option to lower resolution if your camera generates too much information to the DVR for live view.

Video Settings Channel Stream Type	[01] 01 Video	
Stream Type	Video	
Advanced Resolution (max - MID 1)		
Resolution (max.: WD1)	352*288(CIF)	
Holiday Bitrate Type	Constant	
Video Quality	Medium	
Frame Rate	Full Frame	
Max. Bitrate Mode	General	
Max. Bitrate (Kbps) (max.: 3M)	512	

Sub Stream

Camera:	Select the camera you want to change the
	recording video quality.
Stream Type:	Streaming type is video only.
Resolution:	Select the video resolution.
Bitrate type:	The bitrate is the rate of information generated from the video. The higher bitrate means more data and more traffic and better video quality. Constant bitrate generates same amount of information over the same period of time. Variable bite rate takes one step further to compress the information whenever it can, therefore, generates the same or lower amount of information compare to the constant bitrate.

Video Quality:	Select the video compression algorithm.
Frame rate:	Select the frame rate to decide how many pictures you want to take in each second.
Max. Bitrate Mode:	Select General to set the maximum bitrate in certain brackets. Choose Customized to set the maximum bitrate on your own.
Max. Bitrate:	The maximum information allowed to record on the DVR in thousands of bits per second.
Max. Bitrate Range Recommended:	Recommended bitrate setting.

Advanced

When the Lite mode is enabled, the encoding resolution is 1080p lite in realtime.



Holiday scheduling

E Schedule

4 Advanced

Holiday

A Live View

Video Settings

Recording video in holidays may has different requirements. You can set up to 11 holidays of a year sharing the same holiday profile.

Scheduled Recording

Status Start Date

Disabled 1.Jan

Disabled 1.Jan

Disabled 1.Jan

Disabled 1.Jan

1.Jan

1.Jan

k

Enabled 1.Jan

Disabled 1.Jan

Disabled

Disabled

End Date

1.Jan

1.Jan

1.Jan

1.Jan

1.Jan

1.Jan

1.Jan

1.Jan

Edit ^

1

1

1

1

1

1

1

1

Back

Set up the holiday schedule by click on 📝 button.

Holiday Name

NEW YEAR

Holiday2

Holiday3

Holiday4

Holiday5

Holiday6

Holiday7

Holiday8

Holiday Settings

No

3

4

Edit Holiday Schedu	le
Holiday Name:	Change the holiday name to meaningful name instead of index numbers.
Enable:	Enable or disable this holiday rule.
Mode:	Select the holiday is for a day, a week or a month.
	Day mode: Select the start and end dates to specify
	the period of holidays. This setting is good for one
	time only. It does not repeat periodically.
	Week mode: Select the start and end dates of the
	week to specify the period of holidays. This setting
	is repeating every year.

	Month mode: Select the start and end dates to
	specify the period of holidays. This setting is
	repeating every year.
Start Date:	Select the day when the holiday starts.
End Date:	Select the day when the holiday ends.

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Click **Apply** button to apply the change and click the **OK** button to finish the editing.

Backup Video Recordings

Quickly and backup and export your video recordings with the file exporting

menu. Bring up the main menu then click on **Export Menu**

icon.



Select the video channel and range of time and then click on **Search** to search the video you want to export.

Export	> Export			
	Analog 01	2 02 2 03 2 04		
	Start/End time of record	10-27-2016 17:00:49 10-28	-2016 10:52:40	
	Record Mode	Main Stream		
	Record Type	All		
	File Type	All		
	Start Time	10-28-2016	00:00:00	•
	End Time	10-28-2016	23:59:59	٥
		e X		
Live View			Search	Back

Export with search

Select the video clips you want to export by check or uncheck the video clip. Then click **Export** to export the video recordings.



Click () to preview the video clip.

Click **Export** again to export the video recordings to the USB drive of your choice. Select the USB drive on the **Device Name** and then click **Refresh** if you want to change the drive. Click **New Folder** to create a new folder on current directory. Click **Format** to format this USB storage.

		Exp	ont			
Device Name	USB1-	1		Re	fresh	
Name		Size Type	Edit Date		Delet	e Play
lame		6,075KB File	09-09-2014	17:18:46		0
		Exp	ort	7		
	Exporting					
				Cancel		
	1					
Free Space	3	0,415MB				
		New Polder				
		New Folder	Format	Export	Ca	incel

Video playback

Bring up the main menu then click on Export Menu



Playback screen



Search for video recordings

Check on the camera you want to see the playback or check on **Camera** to select all channels. Then, choose the date for the recording. If there are video recording in selected channel, the date on the calendar will show blue. Double click the date to start playback.

	Sep				201	4 '
S	М	Т	W	Т	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	_	-	_	-

Time line

There is a play back head in the center of the time line represented in a yellow vertical line. To look for a specific video recording, move the play head by clicking and dragging it. If the recording is short, zoom in by clicking button. Click we to zoom out the time scale.

2014-09-0	08 17:1	4:49 -	- 20	14-0	9-09	17:0	02:(50	1				
Ŷ.	00:00	5:29	5		1				1		÷	1	

Playback buttons

Use playback controls to play back the video recording.



	Click this button to play the video backward.
•	Click this button to play the video.
11	Click this button to pause video playback.
	Click this button to stop playback.
▶ 305	Click this button to skip forward 30 seconds.
∢ 305	Click this button to skip backward 30 seconds.
**	Click this button increase playback speed*.
44	Click this button decrease playback speed*.
->	Click this button to jump to the next day.
<	Click this button to jump to the previous day.

* Note: There are 5 steps of playback speed you can choose from: 1/4, 1/2, 1, 2, and 4 times of original speed.

Playback operations

More playback operations such as mute the audio, clip a customized video, add and manage tags, and zoom in the viewing are available on the action buttons section.



-	The audio is on. Click this button to mute the audio.
*	The audio is muted. Click this button to enable audio.
do	Click this button to start video clipping.
da/	Click this button to stop video clipping. You can r

lipping. You can make multiple video clips. When you finish all clipping and exit the live view, the DVR will prompt and asking you to save the video clips.



15 Click this button to add a tag with default tag name. 1 Click this button to add a tag with customized tag name. 尊 Click this button to manage the tags A Click this button to zoom in the live view.

Tagging

Tagging on video recordings help you to mark the critical time of video recording and easier tracking and editing. Find the video is critical and click



to make the tag with default tag name "tag". Click on 🐚 to make

the tag with customized tag name. Search the video on Tagged video playback mode explained in following sections.

Zoom

💫 to zoom the playback. A navigate window will showed up on right Click lower screen corner. Drag and drop or double click to define the area you want to zoom in. The defined area is showed in red rectangular. Right click to exit the zoom mode.

Playback modes

The video playback not only can playback the video recorded on the hard drive indexed by the time. You can also search the video with motion detection event, tag, or playback the video stored on the USB external hard drive.



Event

To search video with motion detection event, click and select the **Event** playback mode.



Select the channel you want to search the motion detection. Enter the start and stop time. And, then click on **Search**.

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5s

10s

30s

60s

120s 300s 600s Max. 30s

The motion recording events are showed on the list. Click (a) to view the video.

Use the scroll bar to browse the recordings and adjust the pre-play and post-play between 5 seconds and the maximum amount of a single section of recording to decide the length of playback before and after the motion event.

Play
٢
۲
۲
۲
۲
۲
۲
۲
į.

Тад

If you set up the tags and want to search video with the tags, click and select the **Tag** playback mode.



Select the channel you want to search the tags. Enter the start and stop time. If you want to search for specific tag name, enter the tag name or leave it blank for all tags. And, then click on **Search**.



Start Time	
11-19-2014	<u> </u>
00:00:00	٩
End Time	
11-19-2014	<u> </u>
23:59:59	٩
Q Search	

The tags searched are showed on the list. Click Ot to view the video.

Use the scroll bar to browse the recordings and adjust the pre-play and post-play between 5 seconds and the maximum amount of a single section of recording to decide the 5s

length of playback before and after the motion event.

5s
10s
30s
60s 120s
300s
600s
Max.
30s

Са	Tag	Name	Play
D4	tag		٢
D4	tag		۲
D		20-	
Pre-p		30s	
Post-	play	30s	
	+	Back	

External file

To playback the video files saved on the USB drive, click and select the **External File** playback mode.



Select the USB device to browse the files. Click **Refresh** to update the list when necessary.



Click () to view the video and use the playback control to control the playback.



Access your DVR with the Web Browser

Default Settings and Factory Reset

To manage your DVR through the web browser, you have to setup the network connection first. If you didn't set up your DVR attaching to your home/business network, please enable DVR's DHCP client. Click **Apply** and then restart the DVR. If you have already installed your cameras, you have to manually change their settings. When necessary to make sure the DVR gets the IP address from your network.

Here's the list of your DVR's factory default settings:

System Default		
Management IP:	192.168.10.60.	
Administrator name:	admin	
Administrator password:	admin	

System Requirement

To access you DVR with the browser, you need a Windows or OS X based computer and up-to-date browser (Internet Explorer, Safari, Chrome, or Firefox). A web browser plug-in must be installed to supported computer and browser to watch the video.

You need to setup the IP address in the same network of DVR. (192.168.10.x network or your home network). For example, setup your computer with 192.168.10.2 static IP address.

For **Windows** system, please go to the next paragraph.

For **OS X** system, please go directly to page 60.

Logging-in to the DVR for the First Time (Windows)

1. Connect your computer to you home network and look for the DVR by browsing your **Network** in **File Explorer** and then double click the icon to visit the DVR. Or, you can find the DVR IP address assigned by your home gateway by visiting home gateway's web management



page, and then press Enter.

2. Enter the user name, **admin**, and the password you setup through the basic setup. If

you didn't setup your password, the change password window will pop up on step 9 to guide you through the password changing. The default password is **admin**.

	LOGIN
admin	
•••••	*
English	~
	•••••

3. The DVR management page will detect if you installed the camera video streaming plug-in or not. Click **OK** to download the plug-in from the DVR.

102		LOGIN
	Note	<
	New version of plug-in is detected. Update it?	
Language		~
	OKCancel	

4. Download the plug-in to your computer and then and close your browser. Click **Run** to install the plug-in.

Do you want to run or save VideoStream.exe (1.83 MB) from 64.32.141.246?

5. Permission request may show up depends on the Internet security settings on your computer. Click **More Info** and then **Run anyway** to install the plug- in.



Run Save 🔻 Cancel

6. Click **Next** to install the plug-in.



7. Click **Finish** to finish the installation.



8. Open the browser and login again.



9. DVR will ask you to change your password from default setting. Please enter the new password twice and click **OK**. The password must be between 8 and 16 characters. (Alphanumeric: a-z, A-Z, 0-9, !, @, #, \$).

PLEASE ENTER YOUR NEW ADMINISTRATOR PASSWORD		
User Name	admin	
Password	•••••	
Confirm	••••••	
	ОК	

10. Enter the user name **admin** and new password again to start secured session.

iexplore The server 1	92.168.10.60 at TV-NVR104 requires a username and pass	word
6		_
	User name	
	Password	
	Remember my credentials	

11. The **Live View** page will show up and begin streaming video.



Note: If you were not go through the basic setup, the camera plug-and-play process will begin after you setup the password. Wait a few minutes and press F5 to refresh the browser for the live video.

Logging-in to the Camera for the First Time (OS X)

It is recommended to setup the device using Windows PC and Camera Utilty first before accessing the camera with Mac. Mac plug-in needs to be installed first before accessing the camera, you can run the file from the CD or download from www.trendnet.com

 Go to the Finder and navigate to the Download folder. Command-Click the WebComponents.pkg and then click Open. (If you are install the plugin from the CD, just browse to /Mac folder and double click the WebComponents.pkg file.)



2. Click **Open** to start installation.



3. Click **Continue** to install the plug-in.

00	Install WebComponents Welcome to the WebComponents Installer
 Introduction Destination Select Installation ype Installation 	
• Summary	nimitational for an
V	
V	Go Back Continue

4. Select a destination to install the plug-in. Then click **Continue**.

	Install WebComponents Select a Destination
Introduction	Select the disk where you want to install the WebComponents software.
Destination Select Installation type Installation	
Summary	Macintosh HD 158.82 GB available 749.3 GB total
antanhana antanhana	5 Installing this software requires 8.5 MB of space.
71	
W.	Go Back Continue

5. Use the default location and click Install.



6. Enter your password and click Install Software

000		Install WebComponents	
0 Intra 0 Des 0 Inst		trying to install new software. bassword to allow this.	uter.
© Insta	Name:	MAC User	
© Sum	Password:	•••••	
administrations	?	Cancel Install Software	
		Change Ins	stall Location
1	L	Go B	lack Install

7. Installation will process automatically.



8. Click **Close** to exit the installation.



9. Open the browser and login again with the default IP 192.168.10.60 or the IP that was dynamically assigned by your router.



10. Enter the user name, **admin**, and the password, and then click **OK**.

	view this page 192	168.10.60.		
🖉 Yo	ur login informat	on will be sent	securely.	
	Name:			
Pa	assword:			
	Remember th	is password	in my ke	ychain
			incel	Log In

11. The **Live View** page shows up and the video starts to stream.



Note: If you were not go through the basic setup, the camera plug-and-play process will begin after you setup the password. Wait a few minutes and press **command-R** to refresh the browser for the live video.

Basic Settings

Live View

After you log-in into the camera management page, you'll see the Live View page.



Start/Stop Streaming

Click this button to start or stop streaming. Select the display cell by click on it, (The yellow frame will wrap around the selected display cell.) then click on the icon of the stream you want. If the channel has been selected by others, stop that streaming before you change.



Video Stream

Click this button to choose the video stream between main stream and sub stream. 1: main stream; 2: sub stream.

Display Mode 2

Click this button to select the display mode to display a single video on the screen or display four videos on the screen at the same time.

Start/Stop All Streams

Click this button to start or stop all video streams.

Snapshot

Select the video you want to take a snapshot and then click this icon to take a video snapshot.

Start/Stop Recording

Select the video you want to record and then click this icon to start or stop video recording.

🔍 Zoom

Select single video display and then click once to enable zoom. When enabled, click and drag the area on the picture to zoom in. Right click to resume 100% zoom. Click the icon again to disable zoom. The zoom function works in full screen mode as well.

Microphone

Select the video channel and then click on this button to start/stop talking through the camera.



Speaker

Select the video channel and then click on this button to start/stop listening from the camera. Use the slide below to adjust the volume.

PTZ Control

Click this button to bring up the PTZ user interface. (not supported with the included cameras)



Where can I find saved files?

Videos and snapshots captured from Live View will be saved to your computer.

<u>Playback</u>

You can playback the video recording one at a time at this page. You can also download the video clip and snapshots to your local computer. Select the video channel on the left hand side and then search for the video.



Search for video recordings

Click the date selection, and then choose a date as the date range of searching. Click **Search** to start searching.

Start Time								
201	3-11	l-11						Search
-		Nov	20	013		▶ ₩		
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
27		29		31	1	2		
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		
24	25	26	27	28	29	30		
1	2	3	4		6			

Time Line

There is a play back head in the center of the time line represented in a yellow vertical line. To look for a specific video recording, move the time line by clicking and dragging it. If the recording is short, zoom in by clicking button. Click I to zoom out the time scale. If you know the exact time of the day you are looking for, click then enter the time you want to playback.

Different types of recordings are identified differently. The scheduled recordings are marked in blue, and the recordings triggered by motion detection are marked in red.

09:25	09:30	2013-11-12 09:36:47	09:45	09:50
		•	Schedule	Motion
an b				
<u>w</u>	Click and drag th	ne time line to move yo	ur time manu	ally.
\oplus	Click this button	to zoom in the scale		
Θ	Click this button	to zoom out of the sca	le	
-	Click this button	to specify a specific tin	ne of the day.	
		Set playback time	×	
		00 00 00 =		
		to confirm selection	n and then clic	ck X to
	close this dialog	box.		

Play video

Use playback controls to play back the video recording.



	Click this button to play the video.
П	Click this button to pause video playback.
	Click this button to stop playback.
**	Click this button increase playback speed*.
•	Click this button decrease playback speed*.
IÞ	Click to playback video frame by frame. Click again for the next frame

* Note: There are 5 steps of playback speed you can choose from: 1/4, 1/2, 1, 2, and 4 times of original speed.

Slice images from video playback

You can take snapshots from playback video or make new video clips from the video you are playing back.



	Click this button to stop video playback streams.
Ø	Click this button to take a snapshot of current playback.
*	Click this button to start clipping a video from playback.
æ	Click this button or anywhere on the timeline to stop clipping a video from playback.
±	Click this button to download the files.
	Click this button to enable or disable the audio playback.
	Click this button for full screen playback.

Download recorded videos

To save complete video sections, you can download the files directly.





1 (00000000018000000	2014-11-25 13:26:22	2014-11-25 13:46:21	23 MB	IPCamera 04 IPCamera 01	•
					In clama of	
					IPCamera 02 IPCamera 03 IPCamera 04	-
					IPCamera 04	-
					2014-11-25 00:00:00	13
					End Time	
					2014-11-25 23 59 59	12
					Q, Search	
					Download	
						Q. Search

Check the time of the recording, select the videos you want to download, and then click **Download**.

Where can I find saved files?

Videos and snapshots captured from Playback will be saved to your computer. See

Live View Settings on page 72 for details.

Log

The log of the TV-DVR104 is saving on the hard disk drive. You can search the relevant records and save to your local computer.

BASIC ADVANCED		ar work				AS is	i avai	ilable				
English 💙	Majo	or Typ	pe						Minor 1	уре		
No. of Concession, Name	All	Тур	es				~		All Ty	pes	~	Search
Live View	Star	t Tim							End Time			
Playback	2013-10-29 00:00:00						13		2013-	10-29 23:59:59		Save Log
Раубаск	-		Oct		013		• •					
	Sun	Mon				Fri	Sat	Major	Туре	Minor Type	User	IP
Log	29.	30	1	2	3 10	4	5					110
	13	14	15	16	17	18	12					
	20	21	22	23	24	25	26					
(i) System	27	28	20	30	31							
	-3	4	5	6	7	1						
		Time	0	: 0		\$						
		Ð			Today		OK					
								то	otal 0 II	ems <u>First Page</u>	Prev Page 0/0	Next Page Last Page

Live View Settings on page 72 for details.

Search for logs

Click the type of log and then the Start Time and End Time. Click **Search** to start searching.

Total 129 Items First Page Prev Page 1/2 Next Page Last Page

Click First Page, Prev Page, Next Page, and Last Page to show the logs. Click Save Log to save the logs to your computer.

Where can I find saved files?

Videos and snapshots captured from Playback will be saved to your computer. See

System Information

System Information page shows the TV-DVR104's basic information. Click **System** then click **System Info** to show the page.

BASIC ADVANCED	System Information
	DVR Information
English V	Device Name : TV-DVR104
Live View	Firmware Version : V3.4.75 build 160929
Playback	Mac Address : bcad 2018:44.56
B .	Device Time : 2016-10-28T14-53.12
🔜 🗠	NETWORK INFORMATION
(j) System	NETWORK INFORMATION
	IPv4 Address : 192.168.32.122
System Info	IPv4 Subnet Mask : 255 255 26 0
	IPv4 Default Gateway : 192.168.32.1
-	Preferred DNS Server : 192.168.32.1
	Alternate DNS Derver :

Basic Information	
Device Name:	Human readable device name for easy identification.
Firmware Version:	Firmware version
MAC Address:	The MAC address of Ethernet Interface
System Time:	The system time setup in the camera. Keeping this time correct is important for recording, scheduled control and logging accurately.

Network Information					
IP Address:	IP address of the TV-DVR104				
Subnet Mask:	Network range of IP address				
Default Gateway:	The default route going from the TV-DVR104 subnet.				
Primary DNS:	Primary DNS server address				
Secondary DNS:	Secondary DNS server address				

Advanced Settings

<u>System</u>

Device Settings

Setup your system name for easy identification. This device name will also be recognized by other network camera software as the name of this camera. OSD, On Screen Display, camera name is referring to this setting as well.

BASIC ADVANCED	Device Settings
Engish V	Device Name
🧸 System	DVR Name
Device Settings	8 Save
User Accounts	
Time Settings	
Daylight Savings	
Live View Settings	
Maintenance	
E Network	
Video	
Events	
Storage	

Enter the customized device name and the click on **Save** to save the settings.

User Accounts

You can setup up to 16 user accounts to access the DVR's video stream with a web browser or real time video stream (RTSP). Only one administrator account can be setup to configure the DVR and cannot be deleted.

BASIC ADVANCE	User Acco	Modify Delete	
System	NO.	USER NAME	LEVEL
Device Settings	1	admin	Administrator
	2	user	User
Time Settings Daylight Savings Live View Settings Maintenance			

User Accounts

Add: Click Add button to add one user account

Modify: To change a user's name and password, highlight the user by clicking on it. Then, click **Modify** button. You can change the user's name and password. You can also change the administrator's password here. But, the administrator's name is fixed, you cannot change that.

MODIFY USER						
User Name	user X					
Password	•••••					
Confirm	•••••					
		OK Cancel				

Click **OK** to save the changes.

TV-DVR104K / TV-DVR208K

Time Settings

The accuracy of the system clock is important for scheduling and accurate logging. You can synchronize the system time with your computer, or automatically check the time accuracy with a network time server (NTP server).

BASIC ADVANCED	Time Settings Set up the system time for correct scheduling and logging.					
English 🗸	Time Zone : (GMT-08:00) Pacific Time (US&Canada)					
Device Settings	O AUTOMATIC UPDATE					
User Accounts	NTP Server : time.windows.com					
Time Settings Daylight Savings	Interval : 1440 minute(s)					
Live View Settings Maintenance	• MANUAL TIME SYNC.					
a 	Device Time : 2013-10-30T04:34:38					
	Set Time : 2013-10-30T04:33:55					
Video						
Events	Save					
Storage						

Automatic Update			
NTP	Specify a time server (NTP server) to synchronize with.		
Server:	(e.g. pool.ntp.org)		
Interval:	The time interval that the DVR will synchronize the time with		
	NTP server. Default: 1440 minutes (24 hours)		

Click **Save** to save the changes

BASIC ADVANCED	Time Settings Set up the system time for correct scheduling and logging.
English 🗸	Time Zone : (GMT-08:00) Pacific Time (US&Canada)
Device Settings	• AUTOMATIC UPDATE
User Accounts	NTP Server : time.windows.com
Time Settings Daylight Savings	Interval : 1440 minute(s)
Live View Settings Maintenance	O MANUAL TIME SYNC.
B 	Device Time : 2013-10-30T04:34:09
	Set Time : 2013-10-30T04:33:55
Video	Save
Events	
Storage	

Manual Time Sync				
Device Time:	The system time of this camera.			
Set Time:	Click the calendar icon and manually select the date. Check the Sync. with computer time to copy the time from your computer.			

Click **Save** to save the changes

Daylight Savings

Setup daylight savings.

BASIC ADVANCED	Daylight Saving Set daylight savings time.	gs				
English 🗸	Enable DST :	⊠				
System	Start Time :	Apr	✓ First	✓ Sun	₩ 02	✓ o'clock
Device Settings User Accounts	End Time :	Oct	✓ Last	✓ Sun	₩ 02	✓ o'clock
Time Settings	DST Blas :	60mir				
Daylight Savings						
Live View Settings Maintenance	Save					

Automatic Up	date
Enable DST:	Check this box if your time zone has daylight savings.
Start Time:	Enter the date that daylight savings starts
End Time:	Enter the date that daylight savings ends
DST Bias	Enter how much time the daylight saving adjusted by
	daylight savings.

Click Save to save the changes

Live View Settings

Setup the live view video quality, file size and file saving directories.

BASIC ADVANCED	Live View Setting	js			
	Live View Parameters				
System	Live View Buffer	● Low O Medium ●	High		
	Record File Settings				
Device Settings User Accounts	Record File Size	● 256M ● 512M ●	16		
Time Settings	Save record files to	C:\Users\User\Web\RecordFiles	Browse		
Daylight Savings	Save downloaded files to	C:\Users\User\Web\DownloadFiles	Browse		
Maintenance	Picture and Clip Settings				
r ^o	Save snapshots in live view to	C:\Users\User\Web\CaptureFiles	Browse		
미는 Network	Save snapshots when playback to	C:\Users\User\Web\PlaybackPics	Browse		
Video	Save clips to	C:\Users\User\Web\PlaybackFiles	Browse		
Events	Save				
Storage					

Live View Parameters

Live View Buffer: Configure the buffer size for live view video stream. With low buffer size setting, you can get real-time video stream, but the video may be stop and go if the network is congested. With high buffer setting, you can have smooth video streaming, but the video is delayed from the time happening. Medium size can have moderate video stream smoothness and time delay.
Record File Settings		
Record file size:	This size of live view video recording. You can choose 256MB, 512MB, or 1GB a file. Smaller file size is good for many short recordings.	
Save record files to:	By default, files will be saved under the folder with your user name, under the subdirectory TRENDnet/RecordFiles. Click Browse and then choose a new destination if you want to save the file somewhere else.	
Save downloaded files to:	By default, files will be saved under the folder with your user name, under the subdirectory TRENDnet/DownloadFiles. Click Browse and then choose a new destination if you want to save the file somewhere else.	

Picture and Clip Settings				
Save snapshots	By default, files will be saved under the folder with			
in	your user name, under the subdirectory			
live view to:	TRENDnet/SnapshotFiles. Click Browse and then			
	choose a new destination if you want to save the file			
	somewhere else.			
Save snapshots	By default, files will be saved under the folder with			
when playback	your user name, under the subdirectory			
to:	: TRENDnet/PlaybackPics. Click Browse and then choose a new destination if you want to save the file somewhere else.			
Save clips to:	By default, files will be saved under the folder with			
	your user name, under the subdirectory			
	TRENDnet/PlaybackFiles. Click Browse and then			
	choose a new destination if you want to save the file			
	somewhere else.			

Click **Save** to save the changes

Maintenance

You can restart, load camera settings and upgrade the camera firmware on this page.

BASIC ADVANCED	Maintenance
English	Reboot
English Y System	Rabout
Device Settings	Reset
User Accounts Time Settings Daylight Savings Live View Settings Maintenance	Reset all parameters, except the IP parameters and user information, to the default. Reset Restore all parameters to the default. Default
	Import Config. File
Video	Config Pile Browse Import
Events	
Storage	Export Config. File
	Remote Upgrade
	Firmware Upgrade Upgrade
	Note: The upgrade process may take a couple of minutes, please do not disconnect power to the camera during the process. The device reboots automatically after upgrade.

Reboot

Reboot: Click this button to reboot this camera.

Reset

Reset:	Reset all DVR settings, except the IP network settings and user information.
Default:	Load complete factory default to the camera.

Import Config. File

Config File:	To load previously saved settings, click Browse to find the configuration file and then click Import .
Statuce	Shows the status in leading configuration file

Status: Shows the status in loading configuration file.

Export Config. File

Export: Click Export to download configuration file. The file will be downloaded to the Download folder by default.

Remote Upgrade

Firmware:	Click Browse to find the latest firmware and then click	
	Upgrade.	
Status:	Shows the status in firmware upgrade.	

TRENDnet may periodically release firmware upgrades that might add features or fix problems associated with your TRENDnet model and version. To find out if there is a firmware upgrade available for your device, please check your TRENDnet model and version using the link.

http://www.trendnet.com/downloads/

- 1. If a firmware upgrade is available, download the firmware to your computer.
- 2. Unzip the file to a folder on your computer.
- 3. Read the firmware upgrade instruction for specific version update information.
- 4. Log into the DVR.
- 5. Getting to this Maintenance page to upgrade firmware.

Network Settings

TCP/IP

Setup your basic IPv4 network settings on this page.



Network Interface

Duplex and	Choose one of the Ethernet duplex and speed to	
Speed:	match your network. Default: auto.	
MAC Address:	Click this button to reboot this camera.	
MTU:	MTU: Maximum transmission unit. The maximum field size in the Ethernet packet.	
Primary DNS: Enter your first IPv4 or IPv6 DNS server address		
Secondary DNS:	Enter your second IPv4 or IPv6 DNS server address	

IPv4		
DHCP:	P: Check this box if the IP address is assigned by DHCI server.	
IPv4 Address: The IPv4 dynamic or static address		
Subnet Mask:	k: Network range of the subnet	
Default Gateway: The default route going further from TV-AC: subnet		

IPv6	
IPv6 Address:	IPv6 self-assigned address of TV-DVR104
IPv6 Default Gateway:	The default route going further from TV-DVR104 IPv6 subnet

Port

You can change the service port numbers of TV-DVR104 and enable/disable RTSP or HTTP services.

BASIC ADVANCED	Service Ports Enable/ disable service ports. Change service	port numbers.
English v	PORT NUMBERS	
System	HTTP Port	201
	RTSP Port	1026
тсрир	HTTPS Port	443
Port	Server Port	8000
DDNS		
Video	Save	
Events		
Storage		

Port Numbers		
HTTP Port:	The default web access port. You can change the port number. However, you cannot disable the web service. The default port number is 80.	
RTSP Port:	The Real-Time Streaming Protocol port for video streaming. You can change the port number or disable the service by uncheck the box. The default port number is 554.	
HTTPS Port:	You can use https secured login with the default port number of 443 or you can change to another desire port.	

DDNS

Dynamic Domain Name Service, DDNS, allows you to find your camera from the Internet with an easy to remember domain name.

BASIC	ADVANCED	Dynamic Domain Name Service (DDNS) Easier locate your camera by setting up dynamic domain name service.	
🕵 / System		Enable DDNS :	•
_>>, `		DDNS Type :	dyn.com
	vork	Server Address :	
TCP/IP Port DDNS		Domain :	
		User Name :	
		Password :	
Video Events Storage		Confirm :	
		Save	

DDNS	
Enable DDNS:	Check this box to enable DDNS Service.
DDNS Type:	Select a DDNS service provider.
Server Address:	Enter the DDNS server address.
Domain:	Enter your registered domain/host name on selected DDNS service.
User Name:	Enter the account name.
Password:	Enter the password.
Confirm:	Enter the password again.

Click **Save** to save the changes

Video Settings

Video Format

Adjust the settings of video streams.

BASIC ADVANCED	Video Format		
English	Camera	[01] Camera V	
System	Front-end Resolution	1080P30	
E Network	Main Stream(Normal)		
Video	Video Encoding	H.284 V	
	Resolution	1920*1080P V	
Video Format	Bitrate Type	Constant V	
OSD Settings Text Overlay	Video Type	Video&Audio 🗸	
Privacy Mask	Video Quality	Medium 🗸	
Record Schedule	Frame Rate	12 ¥ fps	
Holiday Settings	Sub Stream		
(Events	Video Encoding	H.284 ¥	
	Resolution		
Storage	Bitrate Type	Traditional (D	
	Video Type		
	Video Quality	Medium 🗸	
	Frame Rate	Full Frame Rate	mes per second
	Max. Bitrate		
	Copy to	B Save	

Channel:	Select which video stream for video format	
	changes.	
Stream Type:	Choose the main stream or sub stream of the video	
	channel to change its video formats.	
Video Encoding:	H.264 is the used for the DVR.	

Resolution:	Resolution of the video stream.
Bitrate Type:	Choose between variable bit rate and constant bit rate for video compression. The default is variable rate.
Video Quality:	Choose the video quality. The default is medium quality.
Frame Rate:	Choose the capturing frame rate. Reduce the frame rate to reduce the capture file size.
Max. Bitrate:	Choose the maximum video sampling bit rate.

Click Save to save the changes

On Screen Display (OSD) Settings

Display the camera name and the time the video. Select the video channel you want to change the setting, then change the settings. Move the red box to position the text. Click on **Save** to save the changes.



Channel:	Select the video channel you want to edit.
Display Name:	Check this box to display the product name that
	was setup in the device settings.
Display Date:	Check this box to display system time.
Display Week:	Check this box to display time of the week.
Time Format:	Select 12 or 24-hour time format.
Date Format:	Select the date format
Display Mode:	Choose how the text will show on the screen.

Text Overlay

Display extra information on the screen over the image. Move the red box to position the text. Click on **Save** to save the changes.

BASIC ADVANCED	Text Overlay
System	
Video Format OSD Settings Text Overlay Privacy Mask Video Recording	
Holiday Settings Events Storage	Channel IPCamera 01 • Text

Channel:	Select the video channel you want to edit.
Check Box:	Check this box to enable text overlay.
Text Field:	Enter the text you want to display. The length of the
	text is decided by limitation of the camera.

Privacy Mask

Create a masking area to keep your privacy. You can create up to four independent masking areas by clicking and dragging on the screen.



Channel:	Select the video channel you want to edit.
Enable Privacy Mask:	Check this box to enable privacy masking.
Stop Drawing:	Click this button to stop drawing.
Clear All:	Click this button to clear all the masking areas.

Recording Schedule



Edit: Click **Day** to edit the recording schedule and types

- 1. Select day of the week you want to edit.
- 2. Select Recording type
- 3. Set the time period and the event you want to trigger the video recording **continuous** (always recording) or **motion detection**.
- 4. Click **Select All** or the weekday you want to have the same schedule on different day.
- Click another day of the week by clicking on its tab to set the next schedule. Click
 OK when you have finished your settings.

Holiday Settings

Recording video in holidays may has different requirements. You can set up to 11 holidays of a year sharing the same holiday profile.

Set up the holiday schedule by click on 📝 button.

lish v	The periods of	holiday cannot b	e overlapped				
	Enable	No.	Holiday Name	Туре	Start Date	End Date	Edit
System		1	NEW YEAR	Repeat yearly	1.Jan	1.Jan	1
		2	Holiday2	Repeat yearly	1.Jan	1.Jan	1
a □ Network		3	Holiday3	Repeat yearly	1.Jan	1.Jan	1
		4	Holiday4	Repeat yearly	1.Jan	1.Jan	1
Video		5	Holiday5	Repeat yearly	1.Jan	1.Jan	1
		6	Holiday6	Repeat yearly	1.Jan	1.Jan	1
Video Format		7	Holiday7	Repeat yearly	1.Jan	1.Jan	1
OSD Settings		8	Holiday8	Repeat yearly	1.Jan	1.Jan	1
Text Overlay		9	Holiday9	Repeat yearly	1.Jan	1.Jan	1
Privacy Mask		10	Holiday10	Repeat yearly	1.Jan	1.Jan	1
		11	Holiday11	Repeat yearly	1.Jan	1.Jan	1
Record Schedule		12	Holiday 12	Repeat yearly	1.Jan	1 Jan	1
Holiday Settings		13	Holiday13	Repeat yearly	1.Jan	1.Jan	1



Edit Holiday Schedule		
Holiday Name:	Change the holiday name to meaningful name	
	instead of index numbers.	
Enable:	Enable or disable this holiday rule.	
Туре:	Select the holiday is for a day, a week or a month.	
	Day mode: Select the start and end dates to specify	
	the period of holidays. This setting is good for one	
	time only. It does not repeat periodically.	
	Week mode: Select the start and end dates of the	
	week to specify the period of holidays. This setting	
	is repeating every year.	
	Month mode: Select the start and end dates to	
	specify the period of holidays. This setting is	
	repeating every year.	
Start Date:	Select the day when the holiday starts.	
End Date:	Select the day when the holiday ends.	

Click **OK** to save the changes

Events

Motion Detection

Set up how the motion detection event will be triggered and what actions will be triggered.

Note: This feature is camera dependent.



Channel:	Select the video channel you want to edit.
Enable	Check this box to enable motion detection. Click
Motion	Save to save the choice.
Detection:	
Draw Area:	Click Draw Area button to start drawing. Click and
	drag on the area you want to set up the motion

	detection. The number of areas you can set up depends on camera models. Click Stop Drawing to stop drawing motion detection areas. The red grids represent the motion detection area.
Sensitivity:	Move the slider to adjust detection sensitivity.
Clear All:	Click this button to clear all the set up areas.

Arming Schedule



3. Click Save when finish.

Trigger Alarm Output	Trigger Channel
D2->1	D1
	D2
	D3
	☑ D4
	D5
	□ D6
	D7
	D8

You can send alerts when event trigger by sound, email or jump to full screen monitoring by selecting the options above.

Note: Alarm is not supported for this model.

Video Tampering

Set up how the video tampering detection event will be triggered and what actions will be triggered. When video is suddenly blocked or blacken, tampered, the video tamper notifications will alert the system manager to check the camera.



Channel:	Select the video channel you want to edit.
Enable	Check this box to enable tamper detection. Click Save
Tamper	to save the settings.
Detection:	
Draw Area:	Click Draw Area button to start drawing. Click and drag
	on the area you want to set up the tamper detection.
	Click Stop Drawing to stop drawing motion detection
	areas. The gray block represents the detection area.

Sensitivity:Move the slider to adjust detection sensitivity.Clear All:Click this button to clear all the set up areas.

Arming Schedule





Click Save to save the changes

Exception

Provide notifications for other system events, set up your notifications here.

BASIC ADVANCED	System Notification
English V	Exception All Types
System	Audible Warning
E C Network	Send Email
Video	
Events	
Motion Detection Video Tamper	
Exception	
Email	
Video Loss	
Storage	B Save

Notification

Exception Type:	First, choose the exception type, and then choose the corresponding action. Storage Error Storage Full Storage Error Network Disconnected IP Address Conflicted Illegal Login Record Exception
Audible Warning:	Activate the audible on board buzzer.
Send Email:	Check this box to send an e-mail notification when motion is detected.
Click Save to	save the changes

Email

Set up email accounts for notifications.

BASIC ADVANCED	Email Account Settings			
English v	Sender			
System	Sender			
BE Network	Sender's Address			
	SMTP Server			
Video	SMTP Port 25			
Events	SSL/TLS	-		
\odot	Attached Image	-		
Motion Detection Video Tamper	Interval 2	2 ✓ second(s)		
Exception	Authentication	·		
Email	User Name			
Video Loss	Password			
Storage	Confirm			
	Receiver			
	No. Receiver	Receiver's Address		
	B Save			
	El Save			

Sender	
Sender:	Enter the name to be appeared as the email sender.
Sender's Address:	Enter sender's email address.
SMTP Server:	Simple Mail Transportation Protocol Server address, the outgoing email server address. It may be has address as your incoming email server, maybe not. Please ask your email service provider for detail.
SMTP Port:	Service port number for outgoing email.*
Authentication:	Check this box if your server requires a password in order to send email. Most email servers require authentication when sending an email.

User name:	Enter the user name of outgoing email account
Password:	Enter the password
Confirm:	Enter the password again to confirm that the password was entered correctly.
	· /

Click **Save** to save the changes

Receiver	
Receiver 1:	The first receiver's name.
Receiver 1's	The first receiver's email address.
Address:	
Receiver 2:	The second receiver's name.
Receiver 2's	The second receiver's email address.
Address:	
Receiver 3:	The third receiver's name.
Receiver 3's	The third receiver's email address.
Address:	

Click Save to save the changes

*Note: Many ISPs does not allow service port 25 going through their network. Please consult your email service provider and ISP for detail. DVR does not support SSL or TLS. Please select the right email service for the notifications.

Video Loss

Sends alert when video is lost.



Channel:	Select the video channel you want to edit.
Enable Video	Check this box to enable video loss detection. Click
Loss	Save to save the settings.
Detection:	

Storage

Storage Management

To setup and initiate the hard drive remotely, check the hard disk drive and then click on **Format**.

glish 🗸 🗸	ł	IDD Ma	nagemen	t				Set	Format
🛴 , System	2	HDD No.	Capacity	Free space	Status	Туре	Property		Progress
-2h	2		931 5168	715.00GB	Normal	Local	R/W	×	
E Network									
Video									
Events									
Storage									
Storage Management									
Network Storage									

Format: Select the storage volume and then click Format to format your hard disk drive. This action will format the volume for video recording. Placeholder files (formatting files) will be created to make sure disk allocation is appropriate and the file searching is optimized.
Capacity: The total capacity of the hard disk can be used for video recording and log.

Free Space:	The free space left for video recording and log.
Status:	The disk status.
Property:	This network storage is read only or can be read and write.

Network Storage

Network Storage must be setup before it can be managed. You can add up to 8 network storages for your DVR. The recordings will subsequently be stored in these spaces. Save video from the first storage and then the next when the first one is full. Click on the entry to change the settings and click Save to save the settings.



Server Enter the IP address of your network storage. Address:

- **File Path:** Enter the shared folder as file path for network storage. You can create a folder under the shared folder and make it a network volume here. Just create the folder and enter the correct path name here.
 - **Type:** Choose between NAS or IP SAN for storage Type.

Delete: Click the delete x to remove the storage settings.

Regulations

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Europe – EU Declaration of Conformity

TRENDnet hereby declare that the product is in compliance with the essential requirements and other relevant provisions under our sole responsibility.

CE

Safety EN 60590-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013

ЕМС

EN 55022: 2010 + AC: 2011 Class A EN 50130-4: 2011

This product is herewith confirmed to comply with the Directives.

Directives

Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU RoHS Directive 2011/65/EU WEEE Directive 2012/19/EU REACH Regulation (EC) No. 1907/2006

Česky [Czech]	TRENDnet tímto prohlašuje, že tento TV-DVR104K / TV-DVR208K je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2004/108/ES, 2006/95/ES a 2009/125/ES.
Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TV- DVR104K / TV-DVR208K overholder de væsentlige krav og øvrige relevante krav i direktiv 2004/108/EF, 2006/95/EF og 2009/125/EF.
Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät TV-DVR104K / TV- DVR208K in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2004/108/EG, 2006/95/EG und 2009/125/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme TV-DVR104K / TV- DVR208K vastavust direktiivi 2004/108/ EÜ, 2006/95/ EÜ ja 2009/125/ EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, TRENDnet, declares that this TV-DVR104K / TV-DVR208K is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/CE2006/95/CE, and 2009/125/CE.
Español [Spanish]	Por medio de la presente TRENDnet declara que el TV-DVR104K / TV-DVR208K cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2004/108/CE, 2006/95/CE y 2009/125/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑΤRENDnet ΔΗΛΩΝΕΙ ΟΤΙ ΤV-DVR104K / TV- DVR208K ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2004/108/ΕΚ, 2006/95/ΕΚ, 2009/125/ΕΚ και.
Français [French]	Par la présente TRENDnet déclare que l'appareil TV-DVR104K / TV DVR208K est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2004/108/CE, 2006/95/CE et 2009/125/CE.
Italiano[Italian]	Con la presente TRENDnet dichiara che questo TV-DVR104K / TV- DVR208K è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2004/108/CE, 2006/95/CE e 2009/125/CE.
Latviski [Latvian]	AršoTRENDnetdeklarē, ka TV-DVR104K / TV-DVR208K atbilstDirektīvas 2004/108/EK, 2006/95/EK un 2009/125/EK būtiskajāmprasībām un citiemar to saistītajiemnoteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TV-DVR104K / TV-DVR208K atitinka esminius reikalavimus ir kitas 2004/108/EB, 2006/95/EB ir 2009/125/EB Direktyvos nuostatas.

Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TV-DVR104K / TV- DVR208K in overeenstemming is met de essentiële eisen en de
	andere relevante bepalingen van richtlijn 2004/108/EG, 2006/95/EG en 2009/125/EG.
Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan TV-DVR104K / TV-DVR208K jikkonforma mal-ħtiģijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2004/108/KE, 2006/95/KE u 2009/125/KE.
Magyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TV-DVR104K / TV- DVR208K megfelel a vonatkozó alapvető követelményeknek és az 2004/108/EK, 2006/95/EK és a 2009/125/EK irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym TRENDnet oświadcza, że TV-DVR104K / TV-DVR208K jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2004/108/WE, 2006/95/WE i 2009/125/WE.
Português [Portuguese]	TRENDnet declara que este TV-DVR104K / TV-DVR208K está conforme com os requisitos essenciais e outras disposições da Directiva2004/108/CE, 2006/95/CE e 2009/125/CE.
Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TV-DVR104K / TV-DVR208K v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive2004/108/ES, 2006/95/ES in 2009/125/ES.
Slovensky [Slovak]	TRENDnettýmtovyhlasuje, že TV-DVR104K / TV-DVR208K spĺňazákladnépožiadavky a všetkypríslušnéustanovenia Smernice 2004/108/ES, 2006/95/ES a 2009/125/ES.
Suomi [Finnish]	TRENDnet vakuuttaa täten että TV-DVR104K / TV-DVR208K tyyppinen laite on direktiivin2004/108/EY, 2006/95/EY ja 2009/125/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar TRENDnet att denna TV-DVR104K / TV-DVR208K står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2004/108/EG, 2006/95/EG och 2009/125/EG.

<u>RoHS</u>

This product is RoHS compliant.



Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

- DVR 2 Years Warranty
- Camera 2 Years Warranty
- Included 1TB Hard Disk Drive Manufacturer's Warranty

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December 28, 2016

TV-DVR104K / TV-DVR208K 1.01

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Product Warranty Registration

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