

# Smart Tools User Manual V2.06

Milesight Technology Co.,Ltd.



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# **Chapter I Introduction**

# **1.1 Milesight Smart Tools Introduction**

Milesight Smart Tools is a powerful assisting software which is capable of learning the network environments and automatically finding Milesight network cameras and network video recorders connected in the LAN. It provides you a quick way to modify devices settings and do firmware upgrade. It is highly recommended for multiple Milesight devices configuration. It also can be used for calculating the matching number of camera, network video recorder and disk space.

## **1.2 Key Features**

- ♦ Innovative UI design
- ♦ Integrated IPC Tools, NVR Tools and Calculators, easy to install and use
- ♦ Smart devices discovery and filter
- ♦ Simple batch firmware upgrade and online firmware upgrade for both Milesight cameras and network video recorders
- ♦ Efficient video and image parameters configuration to cameras in a group
- ♦ Convenient network setup for cameras, like IP address, DDNS and so on
- ♦ Useful network modification and connection status display for network video recorders
- Quick calculation for the matching number of camera, network video recorder and disk space
- ♦ Active cameras and NVRs when using them for the first time

# **Chapter II Installation**

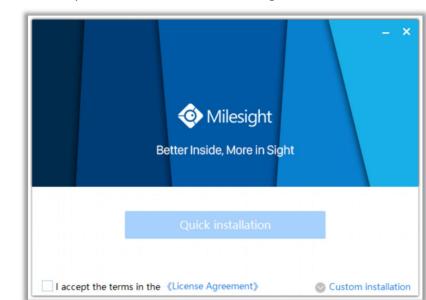
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## 2.1 System Operating Environment

OS: Windows 7/8/10/Vista/Server 2000/Server 2008 CPU: 1.66GHZ or faster Memory: 1GB or more Graphic memory: 128MB or more Internet protocol: TCP/IP

# 2.2 Installation Guide

Run the Installation file and install the programs on your computer by following the on-screen instructions. After finishing installation, you will find the program on the start menu or on the desk.



**Step1:** Check the box 'I accept the terms in the <License Agreement>';

Figure 2-1 Accept the terms

**Step2:** Choose 'Custom installation' to select the destination folder where Milesight Smart Tools will be installed, or choose 'Default installation' to install it in the default destination folder;

- × Milesight Better Inside, More in Sight
Quick installation
D:\Program Files (x86)\Smart Tools\
✓ I accept the terms in the 《License Agreement》

Figure 2-2 Installation

**Step3:** Click 'Quick installation' button to complete the installation.



Figure 2-3 Finished installation

3

#### Note:

The language of Smart Tools is based on the language of computer systems.



# **Chapter III Operations and settings**

The home page of the software is as follows:



Figure 3-1 Home page

Click the buttons to enter the three parts. You can make settings for each part. Note:

- 1) Smart Tools currently supports 5 languages: Simplified Chinese, Traditional Chinese, English, Japanese, Korean, Russian;
- 2) Smart Tools currently supports 5 resolution: 1024\*768, 1280\*1024, 1440\*900, 1920\*1080.

# 3.1 IPC Tools

IPC Tools can automatically detect multiple online Milesight Network Cameras connected in the LAN, set IP addresses, and manage firmware upgrades. It is recommended when assigning IP addresses for multiple Milesight Network Cameras.

#### **Key Features**

- ♦ Support single and batch network settings
- ♦ Support batch firmware upgrades and online firmware upgrade
- ♦ Support configuration of Fisheye Camera
- ♦ Support batch modification of the device name
- Support batch primary/second/third stream parameter settings
- ♦ Support batch audio settings
- ♦ Support batch modification of the username and password
- ♦ Support batch time settings
- ♦ Support batch OSD settings
- ♦ Support batch HTTP/RTSP port settings
- ♦ Support batch DDNS parameters settings

♦ Support batch restart or restore the device

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- ♦ Support batch image parameters settings
- Support settings for Brightness/Contrast/Saturation/Sharpness/Noise Reduction/Exposure Level/Exposure Time/Day(Night) Mode/Power Line Frequency/Wide Dynamic Range/Local Display Video

Click the IPC Tools button, you will enter the IPC Tools part:

				- 🔊 —	- 9	& — □
	IPC Tools	Network				Password Q Search here
	No. Device Na	ne Status MAC	IP	Port Netmask	Gateway Model	Run-up Time Version
	<ul> <li>19 Network Car</li> </ul>	nera Active 1C:C3:16:22:09:B	0 192.168.4.109	80 255.255.240.0	192.168.4.1 MS-C8262-FI	PB 2018-12-18 43.7.0.68-a2
	C 20 Network Car	nera Active 1C:C3:16:23:CF:9	5 192.168.4.112	80 255.255.240.0	192.168.4.1 MS-C4463-P	PB 2018-10-30 41.7.0.65-pwd- 10:27:04 a3u
IPC Tools	C 21 Network Car	nera Active 1C:C3:16:21:7F:7	9 192.168.4.134	80 255.255.240.0	192.168.4.1 MS-C4463-P	2019-12-21 4170.65-pwd-
	C 22 Network Car	nera Active 1C:C3:16:21:7F:76	B 192.168.4.135	80 255.255.240.0	192.168.4.1 MS-C4463-P	2019-12-24 417065-pwd-
	C 23 Network Car	nera Active 1C:C3:16:21:7F:7/	A 192.168.4.138	80 255.255.240.0	192.168.4.1 MS-C4463-P	2019 11 27 41 7 0 65 pwd
	C 24 Network Car	nera Active 1C:C3:16:23:78:C	4 192.168.4.160	80 255.255.240.0	192.168.4.1 MS-C2962-FI	2019 12 24
	C 25 Network Car	nera Active 1C:C3:16:23:C9:3	5 192.168.4.162	80 255.255.240.0	192.168.5.1 MS-C5362-FF	2019 12 25
	C 26 Network Ca	nera Active 1C:C3:16:22:0A:8	7 192.168.4.169	80 255.255.240.0	192.168.4.1 MS-C9674-P	2018-12-25
	C 27 Network Car	nera Active 1C:C3:16:22:0C:3	C 192.168.4.182	80 255.255.240.0	192.168.8.2 MS-C8262-FI	2019-12-10
	C 28 Network Car	nera Active 1C:C3:16:20:10:4	1 192.168.4.199	80 255.255.255.0	192.168.4.1 MS-C2961- OELPB	
	C 29 Network Car	nera Active 1C:C3:16:24:41:9	0 192.168.4.206	80 255.255.240.0	CI C15C175	
	1/286 Device Name: Operating Information	letwork Camera) IP (192.168.2	. <b>137</b> Port: <b>8</b> 0	Netmask (25	6.255.252.0) Gateway: (1	92.168.8 .1 DNS: 8 .8 .8 .8 Export Device List X Modify
Calculators						
				V2.4.0.1		💾 Save  🛞 Clear

Figure 3-2 IPC Tools

	Table	3-1	Icon	of the	IPC	Tools
--	-------	-----	------	--------	-----	-------

Icon	Function
	Home button.
*	Change the language, resolution and check the version information of software.
$-\square \times$	Minimize/ Maximize/ Close the window.
	Network: Modify IP address, Port, Netmask, Gateway, etc.
$\bigotimes$	Setting: Video, Audio, System, OSD, Network Port, DDNS and UPnP settings.
	Preview: Preview, change the image parameters, etc.
9	Upgrade: Upload config file, Upgrade, Reboot and Reset.
	Input correct username and password of one camera or cameras to get further
A admin	operations.
Password 📃	Tick the checkbox right of the Password to remember the current password when
	you restart and re-install Smart Tools.
Q Search here	Input any information (Device Name, MAC, IP address, Port, Netmask, Gateway,
Search nere	Model and Version), and you will find your target more quickly.



Q	Refresh the search result.
< >	Unfold/Fold button, click this button to unfold/fold the main menu.

#### Note:

1) If your camera shows 'Inactive' in the status bar, you need to click



to set the password when

using it for first time. Password must be 8 to 32 characters long.

You can also set the Security Question for your camera here, in case you forget the password, you can reset the password by answering the Security Question correctly.

		6				-0-	- 9		🔺 (adm		
		IPC TO	ools						Q Sear	word ch here	
di i				Status MAC	-	Port Netmask	Gateway 192.168.5.1	Model MS-C2964-FPB	Run-up Time 2018-12-19	Version 40.7.0.65-pwd-	6
λ		C CO Notes		Activation	400.400.7.74		100 168.7.1	MS-C3762-FIPB	17:48:04 2018-12-21 17:43:15	a6 41.7.0.65-pwd- a6	6
1	IPC Tools			Activation			168.5.1	MS-C4472-FIPB	2018-12-24 15:00:51	41.7.0.68-a6	C
							168.7.1	MS-C2975-PB	2018-12-24 17:02:43	40.7.0.68	C
		(3)					168.7.1	MS-C5362-EPB	2018-12-18 16:10:37	41.7.0.65-pwd- a6	6
							168.2.1	MS-C2862-FPB	2018-12-21 16:44:30	41.7.0.68-a6	6
		User Name:	admin				168.5.1	MS-C2963-PB	2018-12-18 13:38:35	40.7.0.67-r21	C
		Password:					168.7.1	MS-C2972-FPB	2018-12-20 13:27:14	40.7.0.67-r10	C
		Confirm:	Question				168.7.1	MS-C5372-FIPB	2018-12-18 22:18:58	41.7.0.67-ptz- dome-a6	C
		Security Question		our father's name?		•	168.7.2	MS-C3772-FIPB	2018-06-15 17:10:58	41.7.0.65-r4	C
	NVR Tools	Security Answer 1:					168.7.1	MS-C4482-PB	2018-12-20 16:15:03	41.7.0.65-pwd- a6	C
		Security Question	2: What's yo	our father's name?		•			2010 07 04		
		Security Answer 2	(				255.0	Gateway: 192.	168.5 .1 DN	8.8.8.8	
		Security Question	3: What's yo	our father's name?		•	(	3) Activate 🛃	Export Device Li	st 🔀 Modi	
		Security Answer 3:	(							$\sim$	
	(+)							2			
	Calculators										
						V2 4 0 1 28	Save		😐 Sav	e 🚫 Clear	

2) If your camera shows 'Active' in the status bar, you can use it directly without activating it. If you click

, it will display 'The activated device is not allowed to reactivate'.



#### 3.1.1 Network

🕖 Activate

Step1: Enter MAC or IP address or other information to search interested cameras;

Step2: Click the parameter of the area(marked as 1) to list the camera one by one;

Step3: Click interested cameras, and then you can change its parameters including the device



name, IP address, netmask, gateway and the HTTP port. Click "Modify" button to apply the settings.

**Step4:** Click the Browser button(marked as 2) to skip to the web of the camera; Details are shown as the Figure 3-3.

										*	- 🗆 ×	
	0					( <i>(</i> ))		9				
	44	PC Tools	Network						and the second se	admin Password		
	3 (		Netwon	< Sett	1119	Preview	U)	grade	۹ 🕯	Search here		D
		lo. Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version		
	C I	1 Network Camera	1C:C3:16:21:98:60	192.168.1.2	80	255.255.255.0	192.168.1.1	CT-2840-PTWB	2018-03-28 10:01:50	40.7.38.58	0	
7	C :	2 Network Camera	1C:C3:16:21:7F:96	192.168. <mark>1.176</mark>	80	255.255.255.0	192.168.1.1	MS-C4463-PB	2018-04-22 19:27:45	41.7.0.63-r12	0	
1	0	3 Network Camera	1C:C3:16:22:0A:7D	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C9674-PB	2018-04-25 10:58:52	43.7.0.65-a2	0	
	C ·	4 Network Camera	1C:C3:16:11:28:86	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3551-PA	2018-04-03 10:01:37	30.7.0.63	0	
	n - 1	5 Network Camera	1C:C3:16:11:02:40	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C3263-PNA	2018-04-08 17:53:22	30.6.1.49	00	
	•	6 MS-C2962-FPB	1C:C3:16:21:09:91	192.168.8.102	8081	255.255.252.0	192.168.8.2	MS-C2962-FPB	2018-04-24 15:59:54	40.7.0.63	0	
	n i	7 MS-C2961-EB	1C:C3:16:21:98:04	192.168.8.103	8083	255.255.252.0	192.168.8.2	MS-C2961-EB	2018-04-12 18:28:20	40.7.0.63	0	
	C I	8 MS-C2942-B	1C:C3:16:23:8D:13	192.168.8.104	8084	255.255.252.0	192.168.8.2	MS-C2942-B	2018-04-12 18:28:34	40.7.0.63	0	
	n )	9 Network Camera	1C:C3:16:22:09:B7	192.168.8.105	8085	255.255.252.0	192.168.8.2	MS-C9674-PB	2018-04-18 22:05:20	42.7.0.64	0	
	C 1	0 23-202	1C:C3:16:23:A8:A7	192.168.8.106	80	255.255.252.0	192.168.8.2	MS-C2962-FIPB	2018-03-13 20:07:05	40.7.0.63-r12	0	
	n 1	1 23-202	1C:C3:16:21:CC:	192.168.8.107	80	255.255.252.0	192.168.8.2	MS-C2963-FPB	2018-03-13 20:08:12	40.7.0.63-r12	0	
	r 1	2 23-202	1C:C3:16:21:99:C8	192.168.8.108	80	255.255.252.0	192.168.8.2	MS-C2962-FIPB	2018-03-13 20:07:43	40.7.0.63-r12	0	
		Device Name: MS-C	2962-FPB IF: 19	2.168.8 .102	Port (	8081 Netma	ask 255.255	252.0 Gatew	ay/ <b>192.168.8</b> .2	DNS: 192.16	4.8 .2	
									📥 Export Devic	ie List 🛛 🗶	) Modify	
	Operating	nformation										
									Acres 6			d
									9	Save 🗵		
						V2.3.0.3						

Figure 3-3 Network

	Select All	Click the button(marked 3 in the Figure 3-3), Select all cameras
	Select All	at a time.
	Device Name	Modify Device Name.
Natural	IP	Modify the selected device into this IP address.
	Port	Modify the HTTP port.
Network	Netmask	Modify the net mask.
	Gateway	Modify the gateway.
	DNS	Modify the DNS server.
	Export Device List	Export selected device list.
	Modify	Save the changes.
Operating	Save	Save the logs.
Information	Clear	Clear the logs.

#### 3.1.2 Setting

When click the 'Setting' button, you can set the related parameters of the Video, Audio, System, User, OSD, Network and Fisheye. Details are shown as follows.

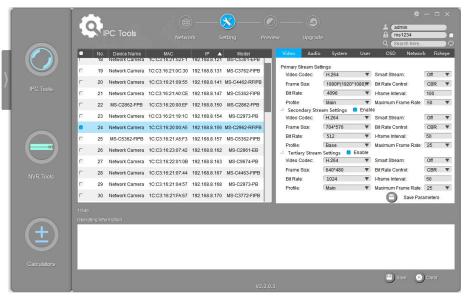
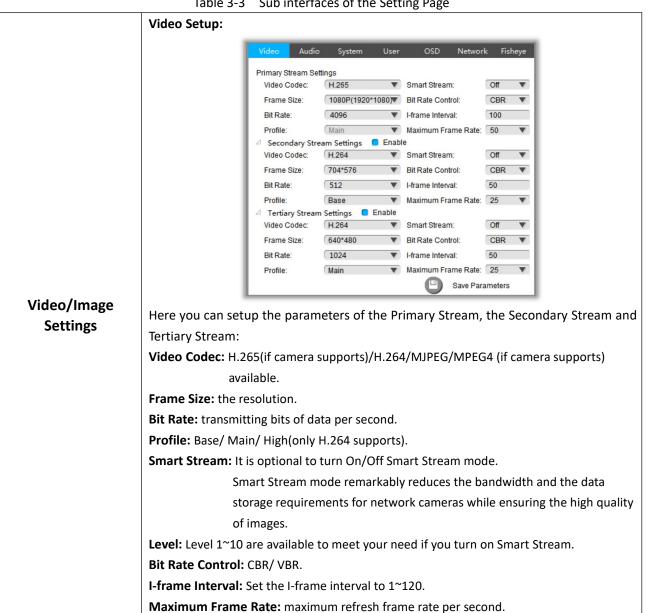


Figure 3-4 Setting



8

Table 3-3 Sub interfaces of the Setting Page

	Audio Setup:		
		Video Audio S	stem User OSD Network Fisheye
		Audio Setting	
		Enable Audio:	
		Audio Mode:	Both Mic & Speaker
		Audio Input	
		Denoise:	c
		Encoding:	G711-ULaw
		Sample Rate:	(8KHz V
		Input Gain:	50
		Alarm Level:	75
	4	Audio Output	50
Audio Settings		Output Volume:	
	L		Save Parameters
	Here you can setup	•	
	Enable Audio: Enab		
		Mic, Only Speak	er and Both Mic&Speaker are available.
	Audio Input:		
	Denoise: Enable or		
			AAC LC are available.
	Sample Rate: 8KHz		
	Adjust Input Gain a	and Alarm Leve	
	Audio Output:		
	Adjust Output Volu	ume.	
	System Setup:		
		Video Audio S	stem User OSD Network Fisheye
		System Setup	
		Device Name:	Network Camera
		Date/Time Setup	
		Date:	2018-04-25 🕈 Time: 16:43:55 🔷
		Timezone:	8 China (Beijing, Taipei)
		Daylight Saving Time:	Automatic V
			Keep current date and time     Supercontract time
			Synchronize with computer time Set Date and Time manually
System Settings			Synchronize to SNTP server: 192.168.8.155
			Save Parameters
	Here you can setup	the parameter	s of the System:
	System Setup:		
	Device Name: Mod	lifv the device na	me.
	Date/Time Setup:	,	-
		and time: Keen	current date and time of the system.
			Synchronize the time with your computer.
	Syncin Onize with C	omputer time:	synchronize the time with your computer.

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	Set date and time manually: Set the system time manually.							
	Synchronize to SNTP server: Synchronize the time with configured network server and							
	S	elected time zone.						
	User Setup:							
	Video Audio	System User OSD Network	Fisheye					
		System User Usb Network	Tisneye					
	Account Management User Name:	admin						
	New Password:							
	Confirm:		Save					
	Set the Security Q		_					
	Security Question 1:	(What's your father's name?	• 					
	Security Answer 1:		_					
	Security Question 2:	(What's your father's name?	•					
	Security Answer 2:	C						
	Security Question 3:	What's your father's name?	•					
	Security Answer 3:							
		•	Save					
	Account Management:							
User settings	Username: Modify the usernam	ie.						
	Password: Modify the password	l. Password must be 8 to 32 char	racters long.					
	Confirm: Enter the password ag	ain to make a confirmation.						
	Set the Security Question: Set		camera. in case vou forget					
	the password, you can reset the							
	There are twelve default questio							
		s your father's name?						
		s your favorite sport? s your mother's name?						
		s your mobile number?						
		s your first pet's name?						
	What	is your favorite book?						
		is your favorite game?						
		s your favorite food?						
		is your lucky number? s your favorite color?						
		s your best friend's name?						
		e did you go on your first trip?						
	Custo	mized Question						
OSD settings	OSD Setup:							
OSD Settings	our setup.							

	Video Audio System User OSD Network Fisheye						
	OSD Settings						
	Video Stream: Primary Stream V						
	Font Size:						
	Show Video Title:						
	Video Title: privacy						
	Text Position: Top-Left						
	Show Timestamp:						
	Date Position: Top-Right						
	Date Format: DD/MM/YYYY						
	Copy to other stream: 1 C 2 3						
	Save Parameters						
	Video Stream: Here you can choose the stream of OSD. Font Size: Smallest, Small, Medium, Large, Largest and Auto are available.						
	Video Title: Input the video title.						
	<b>Text Position:</b> Top-Left, Top-Right, Bottom-Left and Bottom-right are available.						
	Show Timestamp: Enable/Disable the timestamp.						
	Date Position: Top-Left, Top-Right, Bottom-Left and Bottom-Right are available.						
	Date Format: YYYY-MM-DD, MM/DD/YYYY, DD/MM/YYYY are available.						
	Copy to other stream: Copy the OSD information to other stream.						
	Network Setup:						
	Video Audio System User OSD <mark>Network</mark> Fisheye						
	Port						
	HTTP Port. 80						
	RTSP Port 554						
	DDNS Setup Enable						
	Provider: (freedns.afraid.org  Host Name:						
	Hash:						
	UPnP						
Network Settings	Enable UPnP     Enable Port Mapping (Auto)						
	DHCP						
	C Enable DHCP						
	Save Parameters						
	<b>Port:</b> Here you can set up the HTTP Port and RTSP Port.						
	DDNS Setup: DDNS allows you to access the device via domain name instead of IP						
	address. It manages to change IP address and update your domain						
	information dynamically.						
	<b>UPnP:</b> UPnP allows you skip the steps to router port mapping.						
	DHCP: Check the checkbox to enable the DHCP function.						
	<b>DHCP:</b> Check the checkbox to enable the DHCP function.						

	Video Audio Compatible Mode: PTZ OSD Zoom status: Preset Status:	System User Multi-Channel Mode Recommend Bundle-S 5 seconds 5 seconds	OSD tream mod	Network • • • • • • • • • • • • •	Fisheye	
	Patrol Status: Auto Scan Status:	Always Open	·	Save Parame	ters	
Compatible Mode	Bundle-Stream channels into for compatibi Multi-Channe channels to N	m Mode: the o one, and then lity. el Mode: the M	Bundle send ulti-Ch the cha	e-Stream ing to N nannel M annels ca	Mode VR or V lode se an be m	combines all the /MS, which is easy nds all the original odified separately.
Preset Status: Sup 2 so Patrol Status: Sup	conds/5 second port to set disp econds/5 secon port to set disp ays Open/Alway	ls/10 seconds/A lay time of Pres ds/10 seconds/ lay time of Patro ys Close are ava	Always set Sta Always ol Stat ilable.	Open/Al tus OSD. s Open/A us OSD.	lways (	lose are available. Close are available.
		Always Close are				

### 3.1.3 Preview

The Video Previews is used for setting the related parameters of the video with live view to display the differences. Live view will be full screen if you double click it.

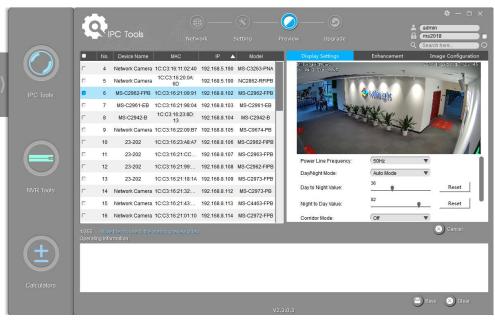


Figure 3-5 Preview

	Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode.						
	Day/Night Mode	Night Mode, Day Mode, Auto Mode and Customize are available.						
Display Settings	Day To Night Value	This is the sensitivity for switching <b>Day Mode</b> to <b>Night Mode</b> . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode.						
	Night To Day Value	This is the sensitivity for switching <b>Night Mode</b> to <b>Day Mode</b> . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode.						
	Corridor Mode	Off, Clockwise 90° and Anticlockwise 90° are available.						
	Image Rotation	Off, Rotating 180°, Flip Horizontal and Flip Vertical are available.						
	IR Balance Mode	There is an option to turn On/Off the IR LED. IR Balance Mode would avoid the problem of overexposure and darkness, and the IR LED will change according to the actual illumination.						
Enhancement	White Balance	To restore white objects, remove the color distortion caused by the environment light. Auto White Balance, Manual White Balance, Incandescent Lamp, Warm Light Lamp, Natural Light and Fluorescent Lamp are available.						

Table 3-4 Parameter of the Previews Page

	Digital Anti-fog Mode	This function is only for H.265 series. Better image effect in foggy weather.					
	Digital Image Stabilisation	This function is only for H.265 series. Decrease the blur and shakiness of the image.					
	BLC Region	Back Light Compensation. Off and Centre are available.					
	Wide Dynamic Range	This function can capture and display both bright and dark areas in the same frame, which enables details of objects in both bright and dark areas to be visible. Off, On and Customize are available.					
	Wide Dynamic Level	Set WDR with <b>Low/High/Auto</b> level.					
	High Light Compensation	This function is only for H.265 series to adjust the brightness to a normal range when the light is strong. Off, General Mode, Enhanced Mode are available.					
	HLC Level	Select a level for HLC.					
	Brightness	Adjust the brightness of image. The higher the brightness is, the brighter the image is.					
Image	Contrast	Adjust the contrast of image. The higher the contrast is, the more different in brightness between objects are.					
Configuration	Saturation	Adjust the Saturation of the image. Higher Saturation makes colors appear more "pure" while lower one appears more "wash-out".					
	Sharpness	Adjust the Sharpness of image. Higher Sharpness sharps the pixel boundary and makes the image looks more clear.					
	Noise Reduction	Reduce the noise to get a better image.					

### 3.1.4 Upgrade

Upgrade is used for managing the firmware upgrades. Here you can upgrade several devices' firmware with one file at a time.

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	10				) (	-0			± (	🏘 — 🗆 admin	×
		IPC Tools						ade	<b>ل</b> ه (	Password Search here	
	• N	o. Device Name	MAC	IP	Port	Netmask	Gateway	Model	Version 🔺	Run-up Time	
	6	5 23-202	1C:C3:16:21:99:C8	192.168.14.26	80	255.255.255.0	192.168.14.1	MS-C2962-FIPB	40.7.0.67-r1	2018-09-21 13:19:49	
	r e	6 Network Camera	1C:C3:16:21:9F:51	192.168.128.137	80	255.255.252.0	192.168.12	MS-C2963-PB	40.7.0.67-r1	2018-12-20 21:37:50	
IPC Tools	n e	7 Network Camera	1C:C3:16:21:9F:55	192.168.128.138	80	255.255.252.0	192.168.12	MS-C2963-PB	40.7.0.67-r1	2018-12-20 21:37:49	
	C 6	8 Network Camera	1C:C3:16:21:9F:56	192.168.128.139	80	255.255.252.0	192.168.12	MS-C2963-PB	40.7.0.67-r1	2018-12-20 21:37:57	
	r e	9 Network Camera	1C:C3:16:21:EC:5A	192.168.7.105	80	255.255.240.0	192.168.7.1	MS-C2972-FPB	40.7.0.67-r10	2018-12-20 13:27:14	
	r 7	0 Network Camera	1C:C3:16:21:09:91	192.168.14.102	8081	255.255.240.0	192.168.14.1	MS-C2962-FPB	40.7.0.67-r10	2018-12-10 09:34:45	
	C 7	1 Network Camera	1C:C3:16:21:98:04	192.168.14.103	8083	255.255.240.0	192.168.14.1	MS-C2961-EB	40.7.0.67-r14	2018-12-05 14:51:02	
	C 7	2 Network Camera	1C:C3:16:23:90:8E	192.168.3.141	80	255.255.240.0	192.168.3.1	MS-C2973-PB	40.7.0.67-r19	2018-11-16 09:20:22	
		3 Network Camera	1C:C3:16:21:9C:B4	192.168.7.103	80	255.255.240.0	192.168.5.1	MS-C2963-PB	40.7.0.67-r21	2018-12-18 13:38:35	
	<u> </u>	A Network Camera	10-03-16-21-43-89	192 168 40 147	80	255 255 240 0	102 168 40 1	MS.C4472.EPB	40.7.0.67.r32.a1	2018-12-10 15-55-12	- 1
NVR Tools		XXXXXXXXX 🔻						() Reboot	🕤 Reset 🗖 K	cep the IP 📋 Keep th	
					-			<u> </u>	e) :	rowse 🥑 Firmware	
							+	) Upload config fi		ie 🔲 Restore after up	
							G	y oproad coning in		e 📑 Kestore alter up.	
$(\pm)$											
Calculators											
										Save 🚫 Clear	

#### Figure 3-6 Upgrade

Option	Function Introduction
() Reboot	Click "Reboot" button to restart the selected cameras.
D Reset	Click "Reset" button to reset the selected cameras to factory default settings.
Keep the IP	Enable the "Keep the IP" option to keep the IP configuration when resetting the selected cameras.
Keep the User	Enable the "Keep the User" option to keep the User configuration when resetting the selected cameras. <b>Note:</b> If you disable the "Keep the User" option when resetting the camera, the camera will be reset to the 'Inactive' status, you need to set a password for it again.
Browse	Click the "Browse" button to choose a config file or a firmware file.
Dpload config file	Select the camera, enter the correct username and password, click the "Browse" button to choose a config file, and then click "Upload config file" button to upload a configuration file.
Firmware Online	Click the "Firmware Online" button to check firmware online, and Click " <sup>(()</sup> )" to directly download the latest firmware on the website for different models.

#### Table 3-5 Parameter of the Upgrade Page

	Firmware Online			– ×				
	Check Online	MSFImage_30.7.0.63.zip	New Version	0				
	Downloads	MSFImage_40.7.0.63-r6.zip MSFImage_41.7.0.63-r6.zip	Download Success	٥				
		MSFImage_42.7.0.64.zip	New Version	٥				
		Note: Please check the downloaded	firmware in Downloads.					
	Check the downloaded	firmware in "Dow	nloads".					
	Click " 🎯 " to select	the firmware to	upgrade came	ra, click " 🕒	" to open			
	containing folder.							
				- *				
	Firmware Online Check Online	MSFIma	ge_30.7.0.63.zip	 C				
	Downloads		.zip/MSFImage_41.7.0.63-r6.zip	GG				
		MSFIma	ge_42.7.0.64.zip	6 6				
	Select the camera, ente	r the correct user	name and passv	vord.				
	Click the "Browse" butt	on to choose a firr	nware file, and	then click the	"upgrade"			
	Button to upgrade the c	amera, or you car	n click the "Firm	ware Online" I	outton to			
Upgrade	directly download the la	atest firmware on	the website to u	upgrade differe	ent			
	models.							
	The upgrade will be completed after the progress bar disappeared.							
		, <b>--</b> .		11				
	Frable the "Destance of	• • • • • • • • • • • • • • • • • • •		المحمد المما				
Restore after upgrading	Enable the "Restore af		tion to restore	the selected	cameras to			
	factory default after up	grading.						
	10.XX.XX.XX is for MS-C	2XXX-XX						
XX.XX.XX.XX	20. XX.XX.XX is for MS-C3XXX-XX							
XX.XX.XX.XX	30.XX.XX.XX is for MS-C	XXXX-XXA						
10.XX.XX.XX	40.XX.XX.XX is for MS-CXXXX-XXB							
20.XX.XX.XX	42.XX.XX.XX is for MS-C		674-PB(V100)					
30.XX.XX.XX 40.XX.XX.XX	43.XX.XX.XX is for MS-C							
42.XX.XX.XX	Note:	2014 10(101)						
43.XX.XX.XX		rado firmuero of	vour potwork -	amorac tha f	rmwara fila			
	When you need to upg				iniware file			
	should match with the de	evices, otherwise th	ne upgrade will f	all.				

## 3.2 NVR Tools

NVR Tools can automatically detect multiple online Milesight Network NVRs connected in the LAN, set IP addresses, and manage firmware upgrades. It is recommended when assigning IP addresses for multiple Milesight Network NVRs.

#### **Key Features**

- ♦ Support single and batch network settings
- ♦ Support batch firmware upgrades and online firmware upgrade
- ♦ Support batch modification of the device name
- ♦ Support batch modification of the username and password
- ♦ Support batch restart or restore the device
- ♦ Support batch get status of the NVR

#### Click the NVR Tools button, you will enter the NVR Tools part:

	Ĩ					<u> </u>	) —	- 9-	(**	)		ターロン Idmin
			NVR Tools								and the second	earch here
		No.	Device Name	Status	MAC	IP 🔺	Port	Netmask	Gateway	Model	Version	Run-up Time
	r.	4	NVR	Active	1C:C3:16:0A:1C:8E	192.168.2.134	80	255.255.240.0	192.168.2.1	NR8064-UH	71.8.1.4-a1	2018-12-25 13:25:43
	с	5	NVR	Active	1C:C3:16:52:DE:72	192.168.2.136	80	255.255.240.0	192.168.2.1	MS-N7032-UPH	71.9.0.3-a1	2018-12-24 11:45:10
	r	6	NVR	Active	1C:C3:16:0A:63:9E	192.168.2.142	80	255.255.240.0	192.168.2.1	MS-N5016-UPT	72.9.0.2-r1	2018-12-21 09:34:17
	C	7	NVR	Active	1C:C3:16:0A:22:10	192.168.2.143	80	255.255.240.0	192.168.2.1	MS-N8032-UH	71.9.0.3-a2	2018-12-24 15:50:20
	C.	8	NVR	Active	1C:C3:16:0A:42:76	192.168.2.144	80	255.255.240.0	192.168.2.1	MS-N5016-UPT	72.9.0.3-a2	2018-12-25 10:29:45
	0	9	NVR	Active	1C:C3:16:70:95:06	192.168.3.100	80	255.255.255.0	192.168.5.1	MS-N8064-UH	71.9.0.2	2018-12-21 14:11:21
	r	10	NVR	Active	1C:C3:16:5D: 6C:C6	192.168.3.107	80	255.255.240.0	192.168.3.1	MS-N8064-UH	71.9.27.3-a1	2018-12-21 15:50:32
	C	11	NVR	Active	1C:C3:16:0A:52:80	192.168.3.108	80	255.255.240.0	192.168.3.1	MS-N5016-UT	72.9.0.2	2018-12-17 11:26:34
	r	12	NVR	Active	1C:C3:16:0A:25:E6	192.168.4.130	80	255.255.240.0	192.168.4.2	MS-N8064-UH	71.9.0.3-a2	2018-12-25 13:45:45
	C	13	NVR	Active	1C:C3:16:0A:33:D8	192.168.4.131	80	255.255.240.0	192.168.4.2	MS-N5016-UPT	72.9.0.2-r3	2018-12-21 11:43:42
	C I	14	NVR	Active	1C:C3:16:65:A8:9A	192.168.4.132	80	255.255.240.0	192.168.2.1	MS-N7032-UPH	71.9.0.2-pwd	2018-12-24 13:45:59
			Device Name: N	'R	IP: 192.168	2 .119 Por	80	Netmask:	255.255.240.0	Gateway 192	.168.2 .1	DNS 192.168.2 .1
										(j) Activate	上) Export De	wice List 🗶 Modify
	Opera	ting Info	rmation							9	<u> </u>	<u> </u>
(+)												
Ŀ												
											9	Save 🚫 Clear
								V2.4.0.1				

Figure 3-7 NVR Tools

Table 3-6	Icons of the NVR Tools Page
-----------	-----------------------------

lcon	Function
	Home button.
\$	Change the language, resolution and check the version information of software.
— □ ×	Minimize/ Maximize/ Close the software.
	Network: modify IP address, Port, Netmask, Gateway, etc.



8	Setting: System.
9	Upgrade: Upgrade, Reboot and Reset.
*	Status: Connected cameras and their MAC/IP/Status.
A Password	Input correct username and password of one camera or cameras to get further operations. Tick the checkbox right of the Password to remember the current password when you restart and re-install Smart Tools.
Q (Search here)	Input any information (Device Name, MAC, IP address, Port, Netmask, Gateway, Model and Version), and you will find your target more quickly.
Q	Refresh the search result.
< >	Unfold/Fold button, click this button to unfold/fold the main menu.

#### Note:

3) If your NVR shows 'Inactive' in the status bar, you need to click using it for first time. Password must be 8 to 32 characters long.

You can also set the Security Question for your NVR here, in case you forget the password, you can reset the password by answering the Security Question correctly.

(f) Activate

to set the password when

		6	<b>()</b>		G -			<b>±</b> (a	¢ — □ : dmin	×
		NVR Tool	s (1) Network						ns1234 earch here	•
- 11		No. Device Nan	ne Statur MAC	IP P	ort Netmask	Gateway	Model	Version	Run-up Time	
		1 NVR	Inactive 1C:C3:16:0A:30:92	192.168.7.112 8	0 255.255.240.0	192.168.7.1	MS-N5016-UPT	72.9.0.2-pwd- tools-a9	2018-12-25 14:13:17	
1		C 2 NVR	Active 1C:C3:16:63:1E:82	192.168.2.117 8	0 255.255.240.0	192.168.2.1	MS-N8064-UH	71.9.0.3-alpha	2018-12-25 13:56:20	
1	IPC Tools		Activation			× <sup>3.2.1</sup>	MS-N5016-UPT	72.9.0.3-alpha	2018-12-24 10:19:24	
						1.2.1	MS-N8064-UH	71.9.0.3-a1	2018-12-25 13:40:37	
		0				1.2.1	NR8064-UH	71.8.1.4-a1	2018-12-25 13:25:42	
		(3)				8.2.1	MS-N7032-UPH	71.9.0.3-a1	2018-12-24 11:45:10	
						1.2.1	MS-N5016-UPT	72.9.0.2-r1	2018-12-21 09:34:17	
		User Name: a Password:	dmin			8.2.1	MS-N8032-UH	71.9.0.3-a2	2018-12-24 15:50:20	
		Confirm:				0.2.1	MS-N5016-UPT	72.9.0.3-a2	2018-12-25 10:29:45	
		Set the Security Que	stion			8.5.1	MS-N8064-UH	71.9.0.2	2018-12-21 14:11:21	
	NVR Tools	Security Question 1:	What's your father's name?		•	1.3.1	MS-N8064-UH	71.9.27.3-a1	2018-12-21 15:50:32	
		Security Answer 1:								
		Security Question 2:	What's your father's name?		•	240.0	Gateway 19	2.168.7 .1	DNS: 192.168.7 .1	
		Security Answer 2:					(f) Activate	🛓 Export De	vice List 🗙 Modify	
		Security Question 3:	What's your father's name?		•			<b>,</b> -	<u> </u>	
	$(\pm)$	Security Answer 3:					2			
	Calculators									
ļ					4	Save		9	Save 🛞 Clear	

4) If your NVR shows 'Active' in the status bar, you can use it directly without activating it. If you click (j) Activate

, it will display 'The activated device is not allowed to reactivate'.

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### 3.2.1 Network

Step1: Enter the SN or IP address other information to search interested NVR;
Step2: Click the parameter of the area(marked as 1) to list the camera one by one;
Step3: Click interested cameras of the list, and then you can change the parameters including the IP address, Port, Netmask, Gateway and DNS. Click "Modify" button to apply the settings.
Step4: Click the Browser button(marked as 2) to skip to the web of the NVR;
Details are shown as the Figure 3-8.

		10						G) —				×
		3	NVR Tools								A Password Search here	
лi			No. Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Version	Run-up Time	
		C	1 NVR	1C:C3:16:0A:27:E8	192.168.0.132	80	255.255.255.0	192.168.0.1	TP011S	72.8.18.3	2018-04-25 09:44:26	0
X		C	2 NVR	1C:C3:16:0A:1D:02	192.168.8.10	80	255.255.252.0	192.168.8.1	MS-N5032-UH	71.8.0.2-r1	2018-02-13 18:05:59	0
4		0	3 NVR-Demo	1C:C3:16:0A:1C:A4	192.168.8.101	8101	255.255.252.0	192.168.8.2	MS-N8064-UH	71.8.0.3-r2	2018-04-20 09:39:52	0
		r	4 NVR	08:5A:E0:05:01:68	192.168.8.110	80	255.255.252.0	192.168.10.1	MS-N8032	1.7.0.7-r3	2018-03-07 13:27:07	0
-		•	5 NVR	1C:C3:16:0A:1D:27	192.168.8.138	80	255.255.252.0	192.168.8.2	MS-N5032-UH	71.8.0.3-r2	2018-04-23 09:28:40	0
		r	6 NVR	1C:C3:16:0A: 1D:D2	192.168.8.148	80	255.255.252.0	192.168.8.1	NR7032-UH	71.8.1.5-a2	2018-04-23 10:56:51	0
		0	7 8064	1C:C3:16:0A:26:3F	192.168.8.152	80	255.255.252.0	192.168.8.2	MS-N8064-UH	71.8.0.3	2018-04-04 14:35:37	0
		r	8 NVR	1C:C3:16:0A:28:6C	192.168.8.155	80	255.255.252.0	192.168.8.1	MS-N1009-UPT	72.8.0.3	2018-04-23 17:06:34	0
		c.	9 NVR	1C:C3:16:0A:19:2F	192.168.8.160	80	255.255.252.0	192.168.8.1	MS-N1009-UT	61.7.0.7-r5	2018-04-19 18:19:57	0
		C	10 NVR	1C:C3:16:0A:27:52	192.168.8.161	80	255.255.252.0	192.168.8.1	MS-N1009-UPT	72.8.0.5-a1	2018-04-18 09:03:29	0
		0	11 NVR	1C:C3:16:16:2D: 6E	192.168.8.166	80	255.255.252.0	192.168.8.1	MS-N8032-UH	71.8.0.5-dl	2018-04-24 09:39:03	0
		r	12 NVR	1C:C3:16:0A:27:12	192.168.8.169	80	255.255.252.0	192.168.8.1	MS-N1009-UPT	72.8.0.3-r1	2018-04-20 14:57:08	0
			Device Name: 🚺	IVR DP	192.168.8 .138	- Po	orti <mark>80 N</mark> e	tmask 255.25	5.252.0 Gate	Way: 192.168.8	DNS 192.16	8.8 .1
										<u>+</u>	Export Device List 🗴	) Modify
		Operatin	g Information									_
	(+)											
		-										
											💾 Save 🛞	

Figure 3-8 Network

	Select All	Click the button(marked 3 in the picture), Select all cameras at a time.					
	Start IP Address	Modify all the selected cameras' IP addresses from this one.					
	Device Name	Modify Device Name.					
Optional	IP	Modify the selected device into this IP address.					
	Port	Modify the HTTP port.					
	Netmask	Modify the net mask.					
	Gateway	Modify the gateway.					
	DNS	Modify the DNS server.					
	Modify	Save the changes.					

Table 3-7 Parameter of the Network page

	Export Device List	Export selected device list.
Operating	Save	Save the logs.
Information	Clear	Clear the logs.

#### 3.2.2 Setting

📀 Milesight 🛛

Here you can setup date/time of system and upload configuration file to NVR.

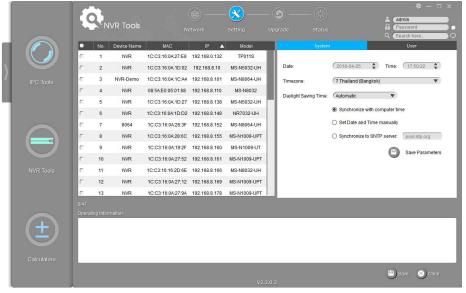
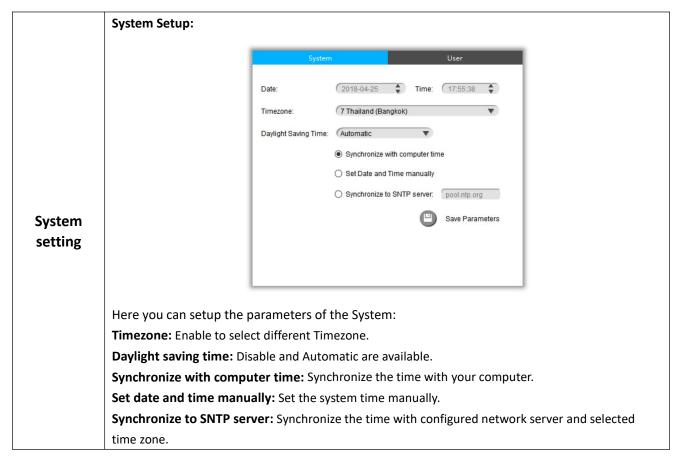


Figure 3-9 Setting

Table 3-8Parameter of the Previews Page



# 3.2.3 Upgrade

Milesight

Upgrade is used for managing the firmware upgrades. Here you can upgrade several devices' firmware with one file at a time.

	6	•				. X	<b>G</b>	)	*	÷	& — □ (admin	
		NV NV	'R Tools							6 Q	Password Search here	3
		No.	Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Version	Run-up Time	Π
	C .	1	NVR	1C:C3:16:63:1E:82	192.168.2.117	80	255.255.240.0	192.168.2.1	MS-N8064-UH	71.9.0.3-alpha	2018-12-25 13:56:20	6
	C.	2	NVR	1C:C3:16:0A:62:98	192.168.2.119	80	255.255.240.0	192.168.2.1	MS-N5016-UPT	72.9.0.3-alpha	2018-12-24 10:19:24	6
IPC Tools	С	3	NVR	1C:C3:16:0A:26:3A	192.168.2.130	80	255.255.240.0	192.168.2.1	MS-N8064-UH	71.9.0.3-a1	2018-12-25 13:45:45	0
	C	4	NVR	1C:C3:16:0A:1C:8E	192.168.2.134	80	255.255.240.0	192.168.2.1	NR8064-UH	71.8.1.4-a1	2018-12-25 13:25:43	6
	C .	5	NVR	1C:C3:16:52:DE:72	192.168.2.136	80	255.255.240.0	192.168.2.1	MS-N7032-UPH	71.9.0.3-a1	2018-12-24 11:45:10	6
	r.	6	NVR	1C:C3:16:0A:63:9E	192.168.2.142	80	255.255.240.0	192.168.2.1	MS-N5016-UPT	72.9.0.2-r1	2018-12-21 09:34:17	6
	C	7	NVR	1C:C3:16:0A:22:10	192.168.2.143	80	255.255.240.0	192.168.2.1	MS-N8032-UH	71.9.0.3-a2	2018-12-24 15:50:20	C
	r	8	NVR	1C:C3:16:0A:42:76	192.168.2.144	80	255.255.240.0	192.168.2.1	MS-N5016-UPT	72.9.0.3-a2	2018-12-25 10:29:45	6
	C .	9	NVR	1C:C3:16:5D:6C:C6	192.168.3.107	80	255.255.240.0	192.168.3.1	MS-N8064-UH	71.9.27.3-a1	2018-12-21 15:50:32	6
	<u> </u>	10	N/R	10:03:16:04:52:80	192 168 3 108	80	255 255 240 0	192 168 3 1	MS-N5016-LIT	72902	2018-12-17 11:26:34	0
		XXXXX	XXXXX 🔻						() Reboot	🗩) Reset 🗖 K	leep the IP 📋 Keep t	ne L
									9	<u> </u>	Irowse 🛃 Firmware	
			_				_	_			<u> </u>	
										🗍 Restore a	after upgrading 🏼 🔊 L	
	Operating	y morria	1000									
+ )												
												_
											Save 🚫 Clear	

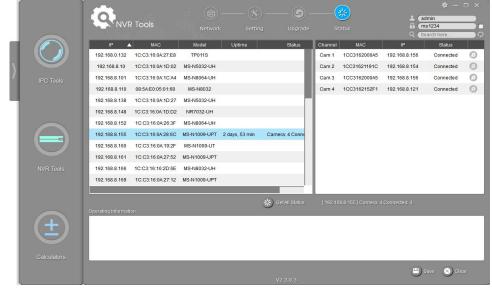
#### Figure 3-10 Upgrade

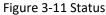
Option	Function Introduction								
() Reboot	Click "Reboot" button to restart the selected NVRs.								
D Reset	Click "Reset" button to reset the selected NVRs to factory default settings.								
Keep the IP	Enable the "Keep the IP" option to keep the IP configuration when resetting the selected NVRs.								
	Enable the "Keep the User" option to keep the User configuration when resetting								
Keep the User	the selected NVRs.								
Neep the User	Note: If you disable the "Keep the User" option when resetting the NVR, the NVR								
	will be reset to the 'Inactive' status, you need to set a password for it again.								
Browse	Click the "Browse" button to choose a config file or a firmware file.								
	Click the "Firmware Online" button to check firmware online, and Click " (4) " to								
	directly download the latest firmware on the website for different models.								
	Firmware Online — X								
	Check Online MSFImage_71.8.0.3.zlp Download Success								
	Downloads MSFImage_72.8.0.3.zlp New Version								
Eirmware Online									
	Note: Please check the downloaded firmware in Downloads.								
	Click " $\textcircled{O}$ " to select the firmware to upgrade NVR, click " $\textcircled{O}$ " to open								

	containing folder.								
	Firmware Online		- ×						
	Check Online	MSFImage_71.8.0.3.zip	6 8						
	Downloads	MSFImage_72.8.0.3.zip	68						
G Upgrade	Select the NVR, enter the correct username and password. Click the "Browse" button to choose a firmware file, and then click the "upgrade" Button to upgrade the NVR, or you can click the "Firmware Online" button to directly download the latest firmware on the website to upgrade different models. The upgrade will be completed after the progress bar disappeared.								
Restore after upgrading	Enable the "Restore after upgrading" option to restore the selected NVRs to factory default after upgrading.								
	1.XX.XX.XX is for MS-N8	8016/8032/7016							
	2.XX.XX.XX is for MS-N5								
XXXXXXXX V	30.XX.XX.XX is for MS-N5016								
XX.XX.XX.XX	31.XX.XX.XX is for MS-N								
1.XX.XX.XX 2.XX.XX.XX									
30.XX.XX.XX	61.XX.XX.XX is for MSN1009-UT 71.XX.XX.XX is for MS-NXXXX-U(P)H 72.XX.XX.XX is for MS-NXXXX-UPT								
31.XX.XX.XX									
61.XX.XX.XX 71.XX.XX.XX		NAAA-0P1							
72.XX.XX.XX	Note:	and finning of your NV/Da that fi		مام مربيا ما					
		ograde firmware of your NVRs, the fin	mware file	snould					
	match with the devices, otherwise it will fail.								

## 3.2.4 Status

The Status is used for checking the status of the channels of NVR. Click the 'Get All Status' to get all the status of the NVRs which share the same username and password locally.





# **3.3 Calculators**

Calculators can be used to calculate the number of IP cameras which can be connected to the specified NVRs, and calculate the number of NVRs needed to manage the available IP cameras. It can also calculate according to the video time and equipment needed for disk space, calculate according to video disk space and equipment configuration time of tool software.

#### **Key Features**

- ♦ Support calculating the supported number of camera according to NVR
- ♦ Support calculating the needed number of NVR according to camera
- ♦ Support calculating the needed disk storage
- ♦ Support calculating the recording time according the disk storage
- ♦ Innovative UI interface and easy use

Click the Calculators button, the page is as following:

Ĩ		<u> </u>			¢ – □ ×
		Calculator For Camera			
I		NVR NVR Mode		Number(pcs)	Primary Rate:
N		I			Please select main-bitrate 🔍
1				_	Secondary Rate:
٦				_	Please select sub-bitrate 🔻
				_	Calculate(ALL)
				_	NVR Channels:
				_	Camera Supported(pcs):
	$(\pm)$				
			+ Add	NVR 🔵 Delete NVR	

Figure 3-12 Calculators



lcon	Function
	Home button.
\$	Change the language, resolution and check the version information of software.
$-\square \times$	Minimize/ Maximize/ Close the software.
	Calculator For Camera.
	Calculator For NVR.
	Calculator For Disk.
< >	Unfold/Fold button, click this button to unfold/fold the main menu.

#### Table 3-9 Icons of the Calculators page

## 3.3.1 Calculator For Camera

Choose your NVR model and numbers, set the cameras' rates for primary and secondary stream, then click the 'Calculate' button to get the total number of NVR channels as well as the number of the cameras you can add to your NVRs.

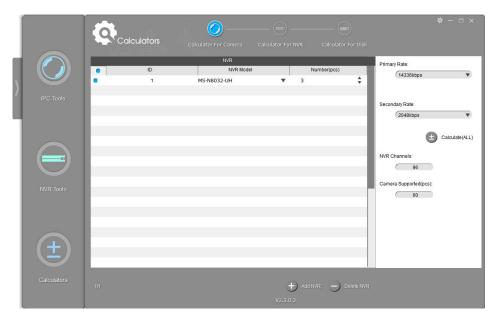


Figure 3-13 Calculator For Camera



## 3.3.2 Calculator For NVR

Choose your cameras' bit rate for primary and secondary streams and the cameras' numbers, select the NVRs' models, then click the 'Calculate' button to get the number of the needed NVRs' numbers and the suggested adding way.

		10					)				
			Calculators								
١İ					Camera					Select NVR:	
		•	ID		Bitrate(			Number(p	CS)	(MS-N5032-UH	
N			1	Primary Rat 4096kbps		Secondary F 1024kbps	kate:	35	÷		
			2	4096kbps		2048kbps	÷	3	ž	E	Calculate(ALL)
								-	·		quired: 1 V connected 32
										The number of NVR Re ID Camera 1 2	quired: 1 🔽 connected 3 3
	±										
	Calculators	2/2						-) Dele			

Figure 3-14 Calculator For NVR

### **3.3.3 Calculator For Disk**

Edit the channels information, the software will calculate the record time depending on the given disk space, or the needed disk storage depending on the given time.

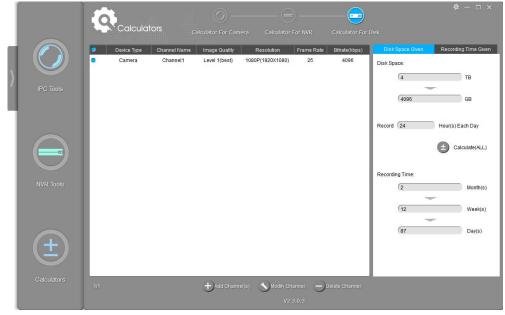


Figure 3-15-1 Calculator For Disk(Time)

📀 Milesight

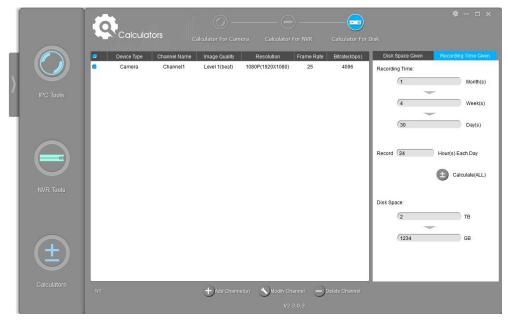
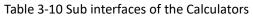


Figure 3-15-2 Calculator For Disk(Storage)



	Add Channel(s):
	Add Channel(s)
	Channel Channel Number: 1
	Channel Prefix: Channel
	Configuration
	Device Type: Camera
	Image Quality: Level 1(best)
	Resolution: (1.3M(1280X960) <b>v</b>
	Frame Rate: 25 💌
	Bitrate(kbps): 4096kbps 💌
Add Channel(s)	OK SCancel
	Channel:
	Channel Number: The number you want to add.
	Channel Prefix: You can edit the channel prefix by yourself.
	Configuration:
	Device Type: The device type.
	Image Quality: Image quality.
	Resolution: Choose the wanted resolution of the device.
	Frame Rate: The Frame Rate of the device.
	Bitrate: The bit rate of the device.
Modify Channel	Modify Channel:

	Modify Channel Information
	Configuration
	Device Type: Camera
	Image Quality: Level 1(best)
	Resolution: 1080P(1920X1080)
	Frame Rate: 25
	Bitrate(kbps): 4096kbps 🔻
	Copy OK Cancel
	Configuration:
	Device Type: The device type.
	Image Quality: Image quality.
	<b>Resolution:</b> Choose the wanted resolution of the device.
	Frame Rate: The Frame Rate of the device.
	Bitrate: The bit rate of the device.
	<b>Copy:</b> Copy the settings to other channels.
	<b>OK:</b> Save the settings.
	Cancel: Cancel the settings.
Delete Channel	Delete the selected channel.



# **Chapter IV Service**

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com Web: <u>http://www.milesight.com</u> Online Problem Submission System: <u>http://www.milesight.com/service/feedback.asp</u>

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MILESIGHT KOREA TEL: +82-2-839-3335 Add: 9F/901, Star Valley B/D Digital-ro 9gil 99, Geumcheon-gu, Seoul, Korea

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