# TP-LINK®

## **User Guide**

## NC200 Cloud Camera, 300Mbps WiFi



REV1.0.0

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http://www.tp-link.com

## FCC 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 pro-vide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled 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 or more 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.

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

## FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

## CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## **Canadian Compliance Statement**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2)This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux norms CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) cet appareil ne doit pas provoquer d'interférences et

(2) cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

## **Industry Canada Statement:**

Complies with the Canadian ICES-003 Class B specifications.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

#### **NCC Notice:**

注意!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、 加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行; 經發現有干擾現象時, 應立即 停用, 並改善至無干擾時方得繼續使用。前項合法通信, 指依電信規定作業之無線電信。低功率射 頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

減少電磁波影響,請妥適使用。

安全諮詢及注意事項

●請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。

●清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。

●注意防潮,請勿將水或其他液體潑灑到本產品上。

●插槽與開口供通風使用,以確保本產品的操作可靠並防止過熱,請勿堵塞或覆蓋開口。

●請勿將本產品置放於靠近熱源的地方。除非有正常的通風,否則不可放在密閉位置中。

●請不要私自打開機殼,不要嘗試自行維修本產品,請由授權的專業人士進行此項工作。



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# EAC

## **Safety Information**

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

This product can be used in the following countries:

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	IE	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA	US		

## **DECLARATION OF CONFORMITY**

For the following equipment:

Product Description: Cloud Camera, 300Mbps WiFi

Model No.: NC200

Trademark: TP-LINK

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives: Directives 1999/5/EC, Directives 2004/108/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU The above product is in conformity with the following standards or other normative documents

EN 300 328 V1.8.1 EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1 EN 55022: 2010 + AC: 2011 EN 55024: 2010 EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 EN 61000-3-3: 2013 EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 EN 62311: 2008

The product carries the CE Mark:



Person responsible for making this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2014

TP-LINK TECHNOLOGIES CO., LTD. Building 24 (floors 1, 3, 4, 5), and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

## CONTENTS

Chapte	er 1 Ab	out this Guide	1
1.1	Conve	entions	1
1.2	Overv	iew of This Guide	1
Chapte	er 2 Intr	oduction	2
2.1	Overv	iew	2
2.2	Main I	Features	2
2.3	Appea	rance Description	3
	2.3.1	Front Panel	3
	2.3.2	Rear Panel	4
Chapte	er3 Ma	naging the Camera	. 6
3.1	Login		6
3.2	Live V	ïew	7
3.3	Basic		9
	3.3.1	Basic → Status	9
	3.3.2	Basic → Network	. 11
	3.3.3	Basic → Wireless Connection	.12
	3.3.4	Basic → Cloud Settings	
	3.3.5	Basic → LED	
3.4	Advan	ced	
	3.4.1	Advanced → Status	
	3.4.2	Advanced → Network	
	3.4.3	Advanced → Wireless Connection	
	3.4.4	Advanced → Wireless Extender	
	3.4.5	Advanced → Cloud Settings	
	3.4.6	Advanced → DDNS	
	3.4.7	Advanced → Video	
	3.4.8	Advanced → Motion Detection	
	3.4.9	Advanced → Notification Sending	
	3.4.10	Advanced → LED	
3.5	•	n	
	3.5.1	Account	
	3.5.2	Date/Time	
	3.5.3	Management	
•	3.5.4	System Log	
••		pecifications	
Appen	aix B: T	roubleshooting	41

## Chapter 1 About this Guide

This User Guide contains information for setup and management of NC200 Cloud Camera, 300Mbps WiFi. Please read this guide carefully before operation.

### 1.1 Conventions

In this Guide the following conventions are used:

- The camera or NC200 mentioned in this Guide stands for NC200 Cloud Camera, 300Mbps WiFi without any explanation.
- > **Bold font** indicates a button, a toolbar icon, menu or menu item.

Symbol in this Guide:

Symbol	Description
<sup>CP</sup> Note:	Ignoring this type of note might result in a malfunction or damage to the device.

#### 1.2 Overview of This Guide

Chapter	Introduction
Chapter 1 About This Guide	Introduces the guide structure and conventions
Chapter 2 Introduction	Introduces the features, application and appearance of NC200 Cloud Camera, 300Mbps WiFi
Chapter 3 Managing the Camera	Introduces how to quickly set up the camera using the built-in web management page
Appendix A Specifications	Introduces the specifications of NC200 Cloud Camera, 300Mbps WiFi
Appendix B Troubleshooting	Lists the answers or resolutions for some common problems

Return to CONTENTS

## Chapter 2 Introduction

Thanks for choosing the NC200 Cloud Camera, 300Mbps WiFi!

#### 2.1 Overview

NC200 is a versatile solution for home & office monitoring to keep an eye on your home, kids or workplace; whatever it is that you care for most.

NC200 has a complete system with a built-in CPU and web server that transmits high quality video images, which can fully meet the need of your small office or home's security and surveillance.

NC200 is an affordable and fully scalable surveillance camera. Because the camera can be added to your existing local area network (LAN) with a stable high speed Wi-Fi connection, you will potentially save thousands of dollars from unnecessary cabling. With wireless extender feature, it can also be used as a Wi-Fi range extender to easily expand your Wi-Fi network.

NC200 can be accessed remotely, and controlled from any computer over your local network or through the Internet via a web browser. NC200 is a complete and cost-effective home or office security solution for it comes with remote monitoring and motion detection feature.

NC200 is a cloud-based Wi-Fi video monitoring device with free live streaming and remote viewing, which makes it easy to stay connected with what you care most wherever you are. You can view and manage your camera from anywhere over the Internet through the TP-LINK Skylight website or through the TP-LINK Skylight mobile app for iOS and Android.

#### 2.2 Main Features

- Monitor you home or office remotely with web-based management page
- iOS and Android app for remote viewing and management with TP-LINK Skylight
- <u>skylight.tp-link.com</u> access for easy viewing and management
- Email or FTP notification triggered by motion detection
- Supports wireless 802.11b/g/n with speeds up to 300Mbps
- Wireless connectivity compliant with WPS button
- Instantly eliminates the dead zones and expand your home's wireless network
- Ethernet port for wired connectivity
- UPnP support for network setup & configuration
- 4x digital zoom for close-up viewing

## 2.3 Appearance Description

## 2.3.1 Front Panel

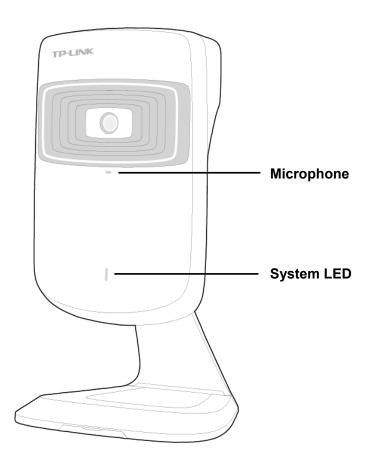


Figure 2-1 Front Panel

Microphone: The camera has a built-in internal microphone. This microphone is hidden in the pinhole located on the front panel.

#### > System LED:

Status	Indication	
Flashing Red	The camera starts booting up.	
Solid Red	ed The camera has boot up, but is not connected to any network.	
Flashing Green	The camera is in firmware upgrade procedure.	
<b>Solid Green</b> The camera is connected to a network or is transferring data.		

### 2.3.2 Rear Panel

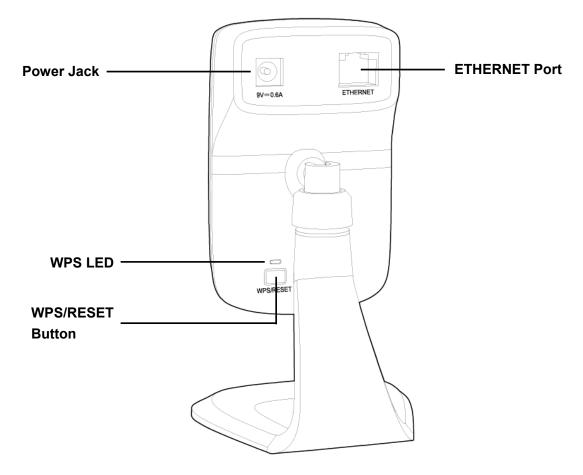


Figure 2-2 Rear Panel

> WPS LED:

Status	Indication		
	The camera starts booting up.		
Flashing Green	The camera is connecting to a network by WPS function. This process will last in the first 2 minutes.		
Off	The camera has boot up.		
- On	The camera failed to be added to a network by WPS function.		
Solid GreenThe camera has been successfully added to a netw function. This process will last in the first 2 minutes.			

- ETHERNET Port: The ETHERNET port is used to connect the camera to a network via RJ45 cable.
- > **Power Jack:** The power jack is where you connect the AC adapter to the camera.
- WPS/RESET Button: This button is used for both WPS and RESET function. To use the WPS function, press it for 1 second; to use the RESET function, press and hold for more than 5 seconds.

#### • Used as RESET button:

With the camera powered on, press and hold the **WPS/RESET** button (more than 5 seconds) until both the System LED and WPS LED turn off. Then release the button and wait the camera to reset to its factory default settings.

#### • Used as WPS button:

If your router supports WPS, then you can press the **WPS/RESET** button for 1 second to quickly establish a connection between the camera and router.

Return to CONTENTS

## **Chapter 3 Managing the Camera**

The camera's built-in web management page is designed to allow you to easily access and configure your camera.

Use the management IP address of the camera to log in to the camera. You can find the IP address in two ways:

- > Run the Setup Wizard. The IP address is displayed on the **Select a camera** screen.
- > Find the IP address on the DHCP setting page of the front device such as router.

#### 3.1 Login

1. Open a Web browser and type in the IP address of the camera you want to monitor in the address field of the browser.

		- • •
🔶 🕀 🗄 http://192.168.1.100/ 🛛 🖓 👻 🖏 NC200 Admin	- Login 🛛 🗙	₼ ☆ ऄ

2. Enter the default username and password (admin/admin). Click Login to start the main menu.

#### P Note:

The default password "admin" is set at the factory for the administrator. We recommend you to change it in the Account menu. (Go to "**System**  $\rightarrow$  **Account**")

If you log in to the camera as an administrator, you can perform all the settings provided by the camera.

If you log in to the camera as a user, you can only view the Live View. After logging as administrator, you can add up to five user accounts in the Account menu. (Go to "**System**  $\rightarrow$  **Account**")

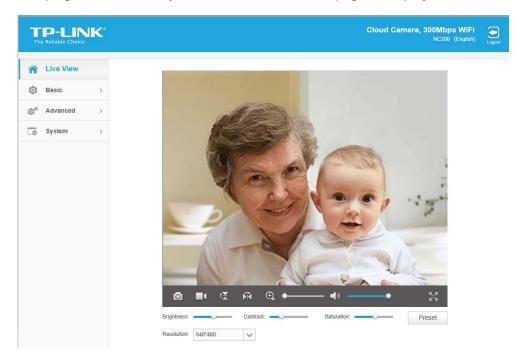
3. Click **Download** to download and install the required plugin.



#### P Note:

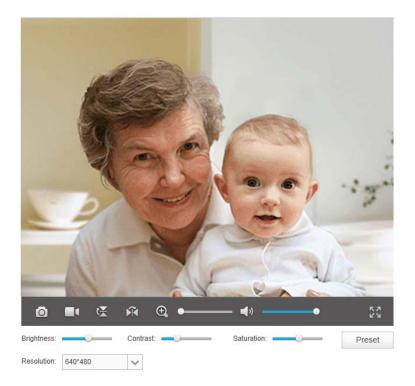
If the installed plugin doesn't work, set your browser security settings to allow plugins. Here we take the settings for IE browser as an example. Go to "Tools→Internet Options→Security". Click "Internet→Custom Level", find the item "Download signed ActiveX controls" and check Prompt. Click "Local Intranet→Custom Level", find the item "Download signed ActiveX controls" and check Prompt.

4. After the plugin is successfully installed, refresh the webpage to display the monitor video.



#### 3.2 Live View

The Live View screen shows you the live video feed from your camera. On this screen, you can capture a picture, record a video, change the resolution and so on.



Symbols	Meaning		Note
0	Click to capture a still image shot by the camera.	format in your local as image-yyyy-mm	I be saved in JPG or BMP I computer. The file is named n-dd-hh-mm-ss.jpg. You can and rename the image file.
	Click to record the current video.	local computer. rec-yyyy-mm-dd-hh save path and rena The icon	-mm-ssi.avi. You can select a
X	Click to vertically flip the current image.	If the camera is inst and Mirror should b Normal Image	talled upside down, Flip Image oth be checked. Mirror 906ml
Ŕ	Click to horizontally flip the current image.	lmage Llib	Mirror + Flip әБешյ

TL-NC200 Cloud Camera, 300Mbps WiFi

	Drag the slider to adjust	
€, ●		The maximum zoom ratio is 4 times.
	image.	
	Mute off. You can hear the	
(	current sound by the	Click 💶 and it will become
	camera.	
	Mute on. The current	
<b>■</b> ×	sound by the camera is	Click 🚺 and it will become 💶.
	turned off.	
	Drag the slider to adjust	You can adjust the sound volume only with mute
	the sound volume.	off 💶.
	Click to enlarge the	Dress "ECC" key to return to the original corresp
	current image to full	Press "ESC" key to return to the original screen
	screen display.	display.

- Brightness: Drag the Brightness: slider to adjust the brightness level of camera. Large value will brighten the current displayed screen.
- Contrast: Drag the Contrast: Slider to adjust the contrast level of the camera. Large value will contrast the current displayed screen heavily.
- Saturation: Drag the Saturation: slider to adjust the saturation level of the camera. Large value will saturate the current displayed screen to be more colorful.
- Resolution: Select the desired video resolution between two formats: 640\*480 and 320\*240.
   Higher setting offers better quality, but will require more bandwidth to stream.
- > **Preset:** Click the **Preset** button to restore to factory image settings.

#### 3.3 Basic

Click the **Basic** menu to display the submenus including **Status**, **Network**, **Wireless Connection**, **Cloud Settings**, and **LED**.

Basic	~
Status	
Network	
Wireless Connection	
Cloud Settings	
LED	

## 3.3.1 Basic $\rightarrow$ Status

The Status page displays the current configuration information of the camera. You can find out

#### camera's settings such as wireless connection settings here. All the information is read-only.

 Basic	
Camera Name:	NC200
Model:	NC200 1.0
Firmware Version:	1.0.13 Build 140513 Rel.16006
Current Viewers:	0
 Cloud Server	
Connection Status:	-
Username:	-
 Wireless	
Connection Status:	Connected
Wireless Network Name:	TP-LINK_1B0F28
Channel:	6
Rate/Signal Strength:	100%
Security:	WPA/WPA2-PSK
 Network	
Connection Type:	Dynamic IP
MAC Address:	00-0C-43-76-20-69
LAN IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.1.1
Primary DNS Server:	192.168.1.1
Secondary DNS Server:	0.0.0.0
 РРРоЕ	
Status:	Disconnected
WAN IP Address:	-
 Video	
Resolution:	640*480
Frame Rate:	20FPS
Image Quality:	High
Light Frequency:	auto

## 3.3.2 Basic $\rightarrow$ Network

On this page, you can configure your camera's IP address which is used to access and configure the camera.

 IP Address		
Oynamic IP	O Static IP	
		Save

Dynamic IP: Select this option when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address of the camera is assigned automatically.

 IP Address			
O Dynamic IP       Static IP			
MAC Address:	00-0C-43-76-20-69		
IP Address:	192.168.1.100	]	
Subnet Mask:	255.255.255.0	]	
Default Gateway:	192.168.1.1	]	
Primary DNS Server:	172.31.1.1	]	
Secondary DNS Server:	172.31.1.2	]	
		Save	

- Static IP: Select this option when a static or fixed IP address is obtained for the camera. A static IP address will ease your access to the camera in the future. Add your camera's static IP information to your router to avoid IP conflicts.
  - MAC Address: Displays the Ethernet MAC address of the camera. The MAC address is read-only.
  - **IP Address:** Enter a fixed IP address for the camera in dotted-decimal notation.
  - **Subnet Mask:** Enter the subnet mask in dotted-decimal notation. The default value is "255.255.255.0."
  - **Default Gateway:** Enter the default gateway in dotted-decimal notation.
  - Primary DNS Server: Enter a DNS address in dotted-decimal notation.
  - Secondary DNS Server: Enter a DNS address in dotted-decimal notation.

Click **Save** to save and enable the settings.

## 3.3.3 Basic $\rightarrow$ Wireless Connection

The camera's wireless function is enabled by default. This function helps to connect your camera to a wireless network via wireless connection. If you don't want to use this function, just select the Disable option.

Wireless Connection					
e Enable					
Wireless Network List: Scan					
Wireless Network Name	Signal	Security	MAC Address		
TP-LINK_1B0F28	((t-	None	54-E6-FC-1B-0F-28		
TP-LINK_3G	((t-	None	00-0C-43-76-16-20		
TP-LINK_EC6823	(;-	None	00-0A-EC-EC-68-23		
TP-LINK_FFFFFF	÷	None	FE-FF-FF-FF-FF		
TP-LINK_3G_2CBBB4	() Ta	WPAWPA2-PSK	0C-82-68-2C-BB-B4		
feng	÷	None	A8-57-4E-F7-6E-20		
3112AC	(;-	None	00-01-56-31-12-AC		
TP-LINK_F9C62C	(;-	None	08-57-00-F9-C6-2C		
0A5F2F		WPAWPA2-PSK	D4-CA-6D-0A-5F-2F		
TP-LINK_M5_EC6612		WPAWPA2-PSK	5A-8F-CC-EC-66-12		

Wireless Network Name:

.....

Connect

- Wireless Network Name: Displays the wireless network's name. Make sure the camera and your PC connect to the same wireless network, or your PC can't access the camera.
- **Signal:** Displays the strength of the wireless signal.
- Security: Displays the wireless network's security mode.
- > MAC Address: Displays the MAC address of the front device.

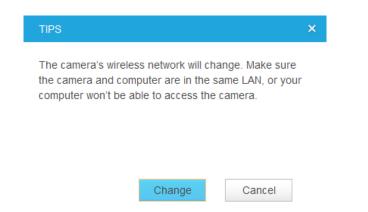
#### To connect your camera to a wireless network, follow the steps below:

- 1. Click **Scan** to scan the available wireless network and to refresh the Wireless Network List.
- 2. Select a wireless network from the wireless network list.
- If the wireless network's security mode is None, simply click Connect. If the security mode is one requiring for a password, enter the wireless network's password and then click Connect.

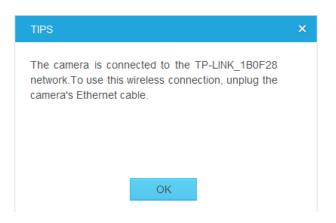
You can select Show password to display what you've entered.

Signal (C ( ( ( ( ( ( (	Security WPAWPA2-PSK None None None WPAWPA2-PSK	MAC Address 54-E6-FC-1B-0F-28 00-0C-43-76-16-20 00-0A-EC-EC-68-23 FE-FF-FF-FF-FF-FF 0C-82-68-2C-BB-B4
() () () () () () () () () () () () () (	WPAWPA2-PSK None None None WPAWPA2-PSK	54-E6-FC-1B-0F-28 00-0C-43-76-16-20 00-0A-EC-EC-68-23 FE-FF-FF-FF-FF-FF
() () ()	None None None WPAWPA2-PSK	00-0C-43-76-16-20 00-0A-EC-EC-68-23 FE-FF-FF-FF-FF-FF
(i. (i)	None None WPAWPA2-PSK	00-0A-EC-EC-68-23 FE-FF-FF-FF-FF-FF
्रि	None WPAWPA2-PSK	FE-FF-FF-FF-FF
() ()	WPAWPA2-PSK	
		0C-82-68-2C-BB-B4
(;	bl	
	None	A8-57-4E-F7-6E-20
(î.	None	00-01-56-31-12-AC
((t.	None	08-57-00-F9-C6-2C
	WPAWVPA2-PSK	D4-CA-6D-0A-5F-2F
	WPAWPA2-PSK	5A-8F-CC-EC-66-12
	Show p	assword
	() ()	Sa WPAWPA2-PSK

4. A pop-up screen will prompt you for the network modification. Click Change to continue.



5. Click **OK** on the pop–up screen to finish wireless connection procedure.



6. To start using camera wirelessly, unplug its Ethernet cable.

## 3.3.4 Basic $\rightarrow$ Cloud Settings

NC200 is a Cloud Camera which can be viewed anytime and anywhere over the Internet with Skylight service. On this page, you can add your camera to an existing Skylight account or you can sign up for a Skylight account and then add your camera to it.

#### P Note:

To add a camera to Skylight account or to sign up for a Skylight account, make sure that the camera is connected to the Internet.

#### Add Your Camera to Skylight Account

If you already have a Skylight account, to add your camera to your account, just enter the Skylight account and password, and then click **Register**.

 Cloud Settings					
Add your camera to Skylight account	Don't have an account?				
Please enter your Skylight account and	d password:				
Account:	E-mail/Username				
Password:					
Camera Name:	NC200				
 With Skylight service, you can view your cloud cameras anytime and anywhere over the Internet. Go to skylight.tp-link.com.					
			Register		

- > Account: Enter your Skylight account, either E-mail address or username is allowed.
- > **Password:** Enter your Skylight account's password.
- Camera Name: The model such as NC200 is camera name by default. You can change it to an easy-remember one. Camera name can contain up to 30 characters. It can only contain

digits, letters, space and .-\_@'.

After your camera is registered successfully, you can go to skylight.tp-link.com to view it.

#### Sign Up for a Skylight Account

If you do not have a Skylight account, click **Don't have an account?** to sign up.

 Cloud Setting			
E-mail:			
Username:			
Password:			
Confirm Password:			
 I accept the TP-LINK Skylight Pri	vacy Policy and Terms of Use .		
		Back	Sign up

- E-mail: Enter a valid E-mail address as your Skylight account. If you forget Skylight password, you can reset it via this E-mail address.
- Username: Enter a username as your Skylight account. Username should contain 1-32 characters. It can only contain letters, digits and . \_.
- Password: Enter a password for your Skylight account. Password should contain 6-20 characters. It can only contain letters, digits and .- \_! @ # \$,% ^& \*.
- > **Confirm Password:** Enter the password again to confirm it.

Click **Sign up** to sign up for a Skylight account. After signing up successfully, you can add your camera to this account. Click **Back** if you don't want to sign up.

#### 3.3.5 Basic $\rightarrow$ LED

The camera's LED is on by default. If you want to turn it off, just select Off.

 LED				
LED:	۲	On	O Off	
				Save

#### 3.4 Advanced

Click the Advanced menu to display the submenus including Status, Network, Wireless Connection, Wireless Extender, Cloud Setting, DDNS, Video, Motion Detection, Notification

#### Sending, and LED.

<b>O<sup>e</sup></b> Advanced	~
Status	
Network	
Wireless Connection	
Wireless Extender	
Cloud Settings	
DDNS	
Video	
Motion Detection	
Notification Sending	
LED	

## 3.4.1 Advanced $\rightarrow$ Status

Refer to <u>3.3.1 Basic  $\rightarrow$  Status</u>.

## 3.4.2 Advanced $\rightarrow$ Network

On this page, you can configure your network settings.

TL-NC200 Cloud Camera, 300Mbps WiFi

 IP Address		
Dynamic IP     O Static IP	)	
Fallback IP:	192.168.0.10	
 PPPoE		
PPPoE:	O Enable	Disable
FFFUE.		UISable
 нттр		
HTTP Port:	80	
 UPnP ·····		
UPnP Port Forwarding:	<ul> <li>Enable</li> </ul>	O Disable
UPnP Name:	NC200	
 Bonjour		
Bonjour:	Enable	O Disable
Bonjour Name:	NC200-762069	

#### **IP Address**

On this page, you can configure your camera's IP address which is used to access and configure the camera.

 IP Address			
Oynamic IP	<ul> <li>Static IP</li> </ul>		
Fallback IP:		192.168.0.10	

- Dynamic IP: Select this option when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address of the camera is assigned automatically.
  - Fallback IP: If the camera cannot get a Dynamic IP address from a DHCP server within limited tries, the camera will assign a default IP address, 192.168.0.10, by itself as the Fallback IP address.

 IP Address	
O Dynamic IP 💿 Static IP	
MAC Address:	00-0C-43-76-20-69
IP Address:	192.168.1.100
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.1.1
Primary DNS Server:	172.31.1.1
Secondary DNS Server:	172.31.1.2

- Static IP: Select this option when a static or fixed IP address is obtained for the camera. A static IP address will ease your access to the camera in the future. Add your camera's static IP information to your router to avoid IP conflicts.
  - MAC Address: Displays the Ethernet MAC address of the camera. The MAC address is read-only.
  - **IP Address:** Enter a fixed IP address for the camera in dotted-decimal notation.
  - **Subnet Mask:** Enter the subnet mask in dotted-decimal notation. The default value is "255.255.255.0."
  - **Default Gateway:** Enter the default gateway in dotted-decimal notation.
  - **Primary DNS Server:** Enter a DNS address in dotted-decimal notation.
  - Secondary DNS Server: Enter a DNS address in dotted-decimal notation.

#### **PPPoE (Point to Point Protocol over Ethernet)**

This camera is a PPPoE enabled one. It can directly connect to the xDSL, however, it should be set up in a LAN environment to configure the PPPoE information first, and then connect to the xDSL modem. Power on again, and the camera will dial on to the ISP to get a dynamic IP address and connect to the WAN through the xDSL modem. For details, please refer to 3.4.6 Advanced  $\rightarrow$  DDNS.

 PPPoE ·····		
PPPoE:	Enable     Disable	
Status:	Disconnected	
Username:		
Password:		

- > **PPPoE:** To enable or disable the PPPoE service here.
- Status: Displays the PPPoE connection status.
- Username: Enter the username for PPPoE service provided by your ISP.
- > **Password:** Enter the password for PPPoE service provided by your ISP.

#### HTTP (Hypertext Transfer Protocol)

This feature allows you to access and manage your camera from a remote location over the Internet. Web browser access normally uses the standard HTTP service port 80. This camera's default remote management web port number is 80. For greater security, you can change the port to a custom one.

 HTTP		 	 			 							
HTTP Po	ort:			8	30								

- HTTP Port: The default value is 80. If you want to use a port number other than 80, enter a port number between 1 and 65535.
- P Note:
- 1. When you have set the HTTP port number to a number other than 80, a corresponding port must be opened on the router.
- Access the camera by typing the IP address of the camera on the Web browser as follows: for example, when HTTP port number is set to 2000 and the IP address of your camera is set to 192.168.1.100, you should type in <u>http://192.168.1.100:2000</u> instead of only <u>http://192.168.1.100</u> to access the camera.

#### UPnP (Universal Plug and Play)

This camera is an UPnP enabled one. This means the camera can dynamically join a network, obtain an IP address. In turn, the camera can leave a network smoothly and automatically when it is no longer in use. UPnP is enabled by default; if you don't want to use this function, just select the Disable option.

 UPnP ·····				 		
UPnP Port Forw	arding:	۲	Enable	0	Disable	
UPnP Name:		NC	200			

UPnP Port Forwarding: To enable or disable the UPnP Port Forwarding service here. If this function is enabled and your router supports UPnP, the cameras and router can communicate

with each other so that the router knows which ports are used by which camera.

> **UPnP Name:** Displays the camera name.

#### Bonjour

Bonjour, also known as zero-configuration networking, enables automatic discovery of computers, devices, and services on IP networks. Bonjour uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers.

 Bonjour ····	 						
Bonjour:		۲	Enable		0	Disable	
Bonjour Name:		NC	200-7620	69			

- **Bonjour:** To enable or disable the Bonjour service here.
- Bonjour Name: Displays the Bonjour name. By default, it is a combination of model and the last six characters of the camera's MAC address.

Click **Save** to save and enable the settings.

#### 3.4.3 Advanced $\rightarrow$ Wireless Connection

The camera's wireless function is enabled by default. With this function enabled, you can connect your camera to a wireless network via wireless connection. If you don't want to use this function, just select the Disable option.

On this page, you can either scan a wireless network to connect to or enter a wireless network's parameters manually. To scan a wireless network, refer to <u>3.3.3 Basic  $\rightarrow$  Wireless Connection</u>. To enter the parameters manually, see the following.

Enable			
Wireless Network List: Sc	an		
Wireless Network Name	Signal	Security	MAC Address
TP-LINK_1B0F28	(î)	WPAWPA2-PSK	54-E6-FC-1B-0F-28
TP-LINK_3G	Ŷ	None	00-0C-43-76-16-20
TP-LINK_EC6823	Ŷ	None	00-0A-EC-EC-68-23
TP-LINK_FFFFFF	(Ţ	None	FE-FF-FF-FF-FF
TP-LINK_3G_2CBBB4		WPAWPA2-PSK	0C-82-68-2C-BB-B4
feng	Ţ	None	A8-57-4E-F7-6E-20
3112AC	(ît	None	00-01-56-31-12-AC
TP-LINK_F9C62C	(1	None	08-57-00-F9-C6-2C
0A5F2F	<u>_</u>	WPAWPA2-PSK	D4-CA-6D-0A-5F-2F
TP-LINK_M5_EC6612	<u>a</u>	WPAWPA2-PSK	5A-8F-CC-EC-66-12
Wireless Network Name:			Manually
			Connect
ct <b>Enable</b> to enable your came			
Manually, and you will see th	e following scre	en.	
Wireless Network Name:			Manually

NOOAA

00014

Connect

3. In the Wireless Network Name field, enter the name of the wireless network to which your camera is ready to connect.

#### P Note:

The name must be exactly the same as that used in the wireless access point, or the connection will not be established. Leaving this field blank means the camera will attempt to access the nearest open network. If your PC wants to access the camera, make sure your PC and the camera are connecting to the same wireless network.

4. Select the wireless security mode used by your wireless network from the drop-down list. The security mode and its corresponding settings must be exactly the same as that used in the wireless network.

- 5. Click **Connect** and a screen will pop-up. Click **Change** on the pop-up screen.
- 6. Click **OK** on the pop–up screen to finish wireless connection procedure.
- 7. To start using camera wirelessly, unplug its Ethernet cable.

#### 3.4.4 Advanced → Wireless Extender

On this page, you can setup and configure the wireless network extending feature of your camera. Wireless extender function allows your camera to extend the range of your existing wireless network. The same network name and settings as the existing wireless network can be used, or you can create a new one.

The camera's wireless extender function is disabled by default. If you want to use this function, just select the Enable option.

 Wireless Extender	
Enable     Disable	
Host Wireless Network Name:	TP-LINK_1B0F28
Extended Wireless Network Name:	<ul> <li>Same as Host</li> </ul>
	0
Max Clients:	Unlimited 🗸
	Save

- Host Wireless Network Name: Displays the name of the wireless network which your camera is connected to. It is read-only.
- Extended Wireless Network Name: Name of the wireless network that your camera will extend.
  - Same as Host: The extended network will use the same name and settings as your Host network. Your devices can use the same wireless information to connect to both the host and extended networks.
  - Create a New One: Select this to manually set the name and security used for the extended network. You devices can use the wireless parameters you set to connect to the extended network.

 Wireless Extender     O Disable				
Host Wireless Network Name:	TP-LINK_1B0F28			
Extended Wireless Network Name:	<ul> <li>Same as Host</li> </ul>			
	● test	×	]	
Security:	None	~		
Max Clients:	Unlimited	$\sim$		
				Save

Max Clients: Set the maximum number of clients that are allowed to connect to the extended network.

Click **Save** to save and enable the settings.

#### 3.4.5 Advanced $\rightarrow$ Cloud Settings

Refer to 3.3.4 Basic  $\rightarrow$  Cloud Settings.

### 3.4.6 Advanced $\rightarrow$ DDNS

If your camera is connected to xDSL modem or cable modem directly, you might need this feature on the camera to allow you and your friends have access to the camera using domain name, in no need of remembering the IP address. However, if your camera is behind a NAT router, you need to set DDNS on your router, in no need of setting this on the camera. As to xDSL environment, most users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the DDNS (Dynamic Domain Name Server) is necessary.

Service Provider:	No-IP (www.noip.com)	$\sim$	Go to register
Username:			
Password:			
Domain Name:			
Connection Status:	Disconnected		
Login			

> Service Provider: Select one of the built-in DDNS servers from the drop-down list: No-IP

(www.noip.com), DynDNS (www.dyn.com), and Comexe (www.comexe.cn).

P Note:

If you have not registered for any of the listed DDNS servers, please select one and click **Go to register**...and follow the instructions provided on the official website to register.

- Username: Enter the username that is used to log into DDNS.
- > **Password:** Enter the password that is used to log into DDNS.
- Domain Name: Enter the domain name that is applied to your camera and used to access your camera.
- > Connection Status: Displays the current status of DDNS connection.

Click Login. After logging in successfully, click Save to save and enable the settings.

#### 3.4.7 Advanced $\rightarrow$ Video

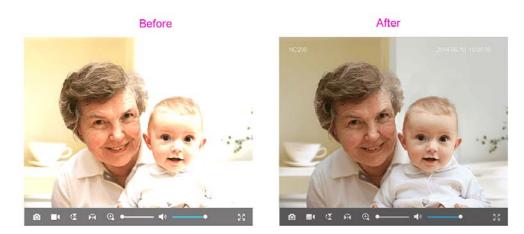
On this page, you can configure the video settings for your camera.

Video			
Frame Rate:	20fps	$\sim$	
Image Quality:	High	$\sim$	
Backlight Compensation:	Enable	O Disable	
Light Frequency:	auto	$\checkmark$	
Time Stamp:	Enable	O Disable	
On-Screen Display (OSD):	Enable	O Disable	
OSD Text:	NC200		
			Save

- Frame Rate: Select the frame rate to use for the video stream from the drop-down list. Higher settings offer better quality, but will require more bandwidth to stream.
- Image Quality: Select one of the three levels of image quality from the drop-down list: High, Medium, and Low. Higher settings offer better quality, but will require more bandwidth to stream.
- Backlight Compensation: If enabled, this feature will compensate for bright backgrounds so foreground objects aren't silhouetted. It is enabled by default.
- Light Frequency: Select the frequency used by your lighting and power to help reduce image flicker. The default setting is auto, which is recommended.

- ➤ Time Stamp: If enabled, the current time of your camera, which can be set on System → Date/Time page, will be displayed on the top right corner of the live view screen. With this feature enabled, you can find out the exact time of the snapshot or record easily.
- On-Screen Display (OSD): If enabled, you can set the OSD text and the OSD text you entered will be displayed on the top left corner of the live view screen. The OSD text is camera name by default.

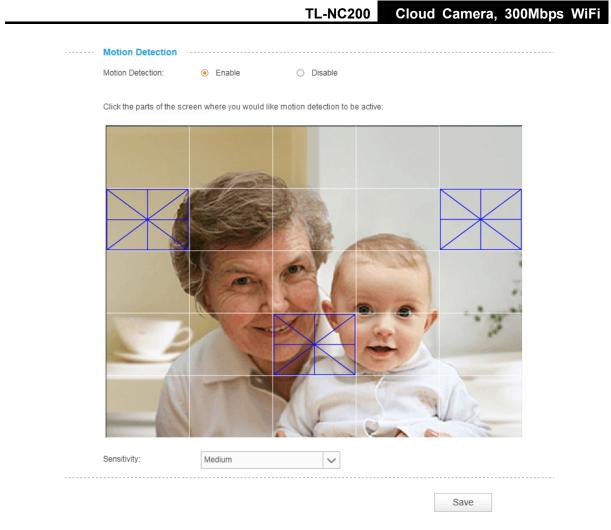
If Backlight Compensation, Time Stamp, and OSD are all enabled, see the following two pictures to see the differences:



Click **Save** to save and enable the settings.

## 3.4.8 Advanced $\rightarrow$ Motion Detection

Motion detection allows you to specify areas of your camera's video to monitor for motion, which can be used to trigger snapshots. Refer to <u>3.4.9 Advanced  $\rightarrow$  Notification Sending</u> for more details.



- > Motion Detection: To enable or disable the motion detection function here.
- Sensitivity: Specify the level of difference between two sequential images that would indicate motion. Select one of the three levels of sensitivity from the drop-down list: High, Medium, and Low.

Use your mouse to click on the parts of screen where you would like to monitor for motion. Click **Save** to save and enable the settings.

## 3.4.9 Advanced $\rightarrow$ Notification Sending

Notification Sending settings are available only after the Motion Detection function is enabled. Notification sending function is used to inform you immediately by sending the snapshots, which are triggered by the camera's motion detection function, to the specified FTP server or E-mail address.

			TL-NC200	Cloud	Camera,	300Mbps	WiFi
	Notificat	tion Sending	 				
	Target:	FTP					
		E-mail					
						Save	

#### FTP

Select **FTP**, you can configure your camera to send snapshots to a specified FTP sever on the following screen:

 Notificat	ion	Sending		
Target:	$\checkmark$	FTP		
		FTP Server/Port:		: 21
		Username:		
		Password:		
		Path:	1	
		Passive Mode:		
		Test		
		E-mail		
				Save
				Save

FTP Server/ Port: Enter the IP or the domain (IP/domain without prefix ftp://) and the port of the FTP server that you will be connecting to. The port is 21 by default.

#### P Note:

The FTP server you set and the camera should be in the same LAN.

- **Username:** Enter the username that is used to log in to your FTP server.
- > **Password:** Enter the password that is used to log in to your FTP server.
- > **Path:** Enter the path to the destination on the FTP server.
- Passive Mode: Enabling passive mode may help you reach your FTP server if your camera is behind a router protected by a firewall.

#### To set up a FTP to receive notification, follow the steps below:

TL-NC200 Cloud Camera, 300Mbps WiFi

 Notificat	tion	Sending			
Target:	$\checkmark$	FTP			
		FTP Server/Port:	192.168.1.168	:	21
		Username:	test		
		Password:	••••		
		Path:	/test		
		Passive Mode:			
		Test			
		E-mail			
					Save

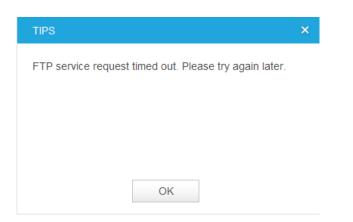
- 1. Enter an IP address or domain of your FTP server, e.g. 192.168.1.168
- 2. Remain the FTP port number as the default value: 21.
- 3. Enter your username to log in to the FTP server, e.g. test.
- 4. Enter your password to log in to the FTP server.
- 5. Enter the path to the destination on the FTP server, e.g. /test
- 6. Enable **Passive Mode**.
- 7. Click **Save** to save and enable the settings.

Click **Test**, and a test JPEG snapshot will be sent to the specified FTP server to check whether your settings are correct.

If the settings are tested correct, you will see the following screen. Click **OK**.

TIPS	×
FTP servers setting succeeded.	
ок	

If the settings are tested incorrect, you will see the following screen. Click **OK**. Please check your network and FTP settings and try again later.



#### E-mail

Select **E-mail**, you can configure your camera to send snapshots to a specified E-mail address on the following screen.

 Notification Sending					
Target:		FTP			
	$\checkmark$	E-mail			
		Recipient E-mail Address:			Add recipient
		SMTP Server/Port:			: 25
		Sender E-mail Address:			
		Password:			
		SSL Encryption:	Close	$\sim$	
		Sending Interval:	1m	$\checkmark$	
		Test			
					Save

- Recipient E-mail Address: Enter the receiver's E-mail address that the notification E-mail will be sent to. Click Add recipient to add receiver's E-mail addresses. You can specify up to four recipient E-mail addresses.
- SMTP Server/Port: Enter the domain name or IP address and the port of your external E-mail server. The port is 25 by default.
- Sender E-mail Address: Enter the sender's E-mal address that is used to send the notification E-mail.
- > **Password:** Enter your password if the SMTP server uses authentication.
- SSL Encryption: Select TLS or STARTTLS as the SSL encryption; select Close to disable SSL encryption.

Save

### P Note:

If TLS is selected as the SSL Encryption, set the Sender E-mail Port as 465; if STARTTLS is selected, set the Port as 25 or 587.

Sending Interval: Set the limit for how frequently E-mail notifications will be sent. Select one interval from the drop-down list.

For example, if you want to use Gmail with TLS for E-mail notifications, follow the steps below:

Notifica	tion Sending		
Target:	FTP		
	🗹 E-mail		
	Recipient E-mail Address:	test@tp-link.com	Add recipient
	Sender E-mail server/Port:	smtp.gmail.com	: 465
	User Name:	test@gmail.com	]
	Password:	•••••	]
	SSL Encryption:	TLS 🗸	
	Sending Interval:	1m 🗸	
	Test		

- 1. Enter the receiver's E-mail address in Recipient E-mail Address, e.g. test@tp-link.com.
- 2. Enter smtp.gmail.com in SMTP server.
- 3. Enter your Gmail E-mail address in Sender E-mail Address, e.g. test@gmail.com
- 4. Enter the password required to access the SMTP server.
- 5. Select **TLS** as the SSL encryption and the SMPT server port number will be changed to **465** automatically.
- 6. Set the Sending Interval, e.g. 1m.
- 7. Click **Save** to save and enable the settings.

Click **Test**, and a test JPEG snapshot will be sent to the recipient E-mail address to check whether your settings are correct.

If the settings are tested correct, you will see the following screen. Click OK.



If the settings are tested incorrect, you will see the following screen. Click **OK**. Please check your network and E-mail settings and try again later.

TIPS	×
Server connection failed.	
ОК	

# 3.4.10 Advanced $\rightarrow$ LED

Refer to 3.3.5 Basic  $\rightarrow$  LED.

## 3.5 System

Click the **System** folder to display the sub folders including **Account**, **Date/Time**, **Management**, and **System Log**.

<b>System</b>	~
Account	
Date/Time	
Management	
System Log	

## 3.5.1 Account

On this page, you can change the administrator's password and manage the user account(s) that

are allowed to access to your camera.

Account			
User	Name	Use	r Group
	Imin		dmin
	est		Iser
Add	Change F		Delete

- > Username: Displays the name of user account.
- User Group: Displays the group the user account is in. Different user group has different limits of authority.
  - **admin:** Admin group has all authority of configuration. It can only have one account: admin.
  - **user:** User group can only view the Live View. It can have up to five accounts.

#### Add a New User Account

You can create new user account to provide viewing access for your camera's video. User accounts will only be able to access the Live View section of the web configuration page, but cannot access any other parts or change any settings.

#### To add a new user account, follow the steps below:

1. Click Add, and you will see the following screen.

Account		
User Name	User Group	
admin	admin	
Add Ch	ange Password Delete	
Add a New User Account		
User Name:	test	
Password:	•••••	
Confirm Password:	•••••	
		Save

2. Enter a username for your new account.

Save

- 3. Enter a password for your new account. The password should contain 5~20 characters.
- 4. Enter the password again to confirm it.
- 5. Click **Save** to save and enable the settings.

#### **Change Password**

You can change the password of all the accounts here.

#### P Note:

The default account and password are both admin. Everyone who knows the camera's IP address can access the device with all configuration authority. It is necessary to change the default password if the device is intended to be accessed only by administrator.

#### To change password, follow the steps below:

- 1. Select one user account in the list whose password you want to change
- 2. Click Change Password, and you will see the following screen.

Account				
User Nai	me	U	Jser G	roup
admin	Ì		adm	in
test			use	r
Add	Change F	Password		Delete
Change Password:				
Current User:	ad	min		
Old Password:	•	••••		
New Password:	•	•••••		
Confirm Password:	•	•••••		

- 3. Enter the current password in the Old Password textbox.
- 4. Enter a new password.
- 5. Enter the new password again to confirm it.
- 6. Click **Save** to save and enable the settings.

## **Delete a User Account**

You can delete a user account except admin here. Select one in the list and click **Delete**.

## 3.5.2 Date/Time

On this page, you can configure the settings of the internal system clocks for your camera.

 Date/Time			
Time Configuration:			
Current Time:	2014-06-09	10:45:44	
Time Zone:	Auto Timezone		$\sim$
Enable Daylight Sav	ving Time		
Automatic Time Configu	iration:		
Synchronize With N	TP Server		
Set Date And Time Man	ually:		
Set Date and Time	Manually		
		Save	

- **Current Time:** Displays the current date and time of the camera.
- Time Zone: Select the time zone for the region where the camera is installed from the drop-down list. Auto Time zone is recommended.
- Enable Daylight Saving Time: Select this option to enable daylight saving time adjustment. If enabled, you will see the following screen:

$\checkmark$	Enable Daylight S	Saving Time								
	O Automaticall	y 💿 Manually								
	Time Offset:	+0:30 🗸								
	Start Time:	First 🗸	Sunday	✓ in	January	<b>~</b> a	t O	<b>v</b> :	0	~
	End Time:	First 🗸	Sunday	↓ in	January	∨ a	t O	<b>v</b> :	0	~

- Automatically: If selected, the internal system clocks of the camera will adjust the DST automatically.
- **Manually:** If selected, you can adjust the DST by setting the Time Offset, Start Time, and End Time.
- Synchronize With NTP Server: Select this option to specify the NTP server name to synchronize the date and time of the camera with those of the time server, known as the NTP (Network Time Protocol) server. If enabled, you will see the following screen:

Automatic Time Config	uration:			
Synchronize With N	TP Server			
<ul> <li>NTP Service</li> </ul>	0.pool.ntp.org	~~	0.pool.ntp.org	$\sim$
O Set NTP Serve	r from Dynamic IP			

- **NTP Server:** You can either enter a domain name of the NTP server or select one which will be filled in automatically from the drop-down list.
- Set NTP Server from Dynamic IP: You can use the NTP server applied in the DHCP server on the network.
- Set Date and Time Manually: Select this option to set the date and time of the camera manually. If enabled, you will see the following screen:

Set Date And T	ïme Manually:				
🗹 Set Date a	nd Time Manually				
Year:	2014 🗸	Month:	6 🗸	Day:	09 🗸
Hour:	10 🗸	Minute:	45 🗸	Second:	29 🗸
	Copy Your Comput	er's Time Sett	ings		

 Copy Your Computer's Time Settings: Click this button to copy your computer's current time settings.

Click **Save** to save and enable the settings.

## 3.5.3 Management

On this page, you can reboot the camera, backup and restore the camera's current settings, reset factory settings, and update the camera's software.

TL-NC200 Cloud Camera, 300Mbps WiFi

 Reboot		
Reboot your camera:	Reboot	
 Backup and Restore		
Back up current settings:	Backup	
Restore settings from a backup file:		
	Browse	Restore
Restore factory default settings:	Reset	
 Update		
Upgrade from a file on your hard disk:		
	Browse	Upgrade
Software update: Your software version is	the latest one.	

- Reboot: Click Reboot and then click Reboot on the pop-up screen to confirm. Rebooting will not change the camera's setting. After rebooting, you need to log in to this page again.
- Backup: Click Backup and follow the instructions on the browser to save the setting data file to your specified location.
- Restore: Click Browse to locate the saved backup file and then click Restore. The camera will start rebooting and then the settings will be restored to the previous configuration.
- Reset: Click Reset and then click Reset on the pop-up screen to restore the camera to its factory defaults. Don't turn off the camera while resetting. After resetting, you need to find out the IP address of your camera (refer to <u>3.1 Login</u>) and use the default username and password (admin/admin) to log in to this page.
- > Update:

The system will detect whether your camera's current software is the latest one automatically.

If the software is the latest one, you can see a note on the screen: **Your software version is the latest one**.

If not, a screen will pop up for you to download the latest software and you can follow the steps below to upgrade the software.

1. Click **Download** on the pop-up screen to download the latest software.

New software version is available, please click Download.	TIPS	×

- 2. Click **Browse** to locate the latest downloaded software.
- 3. Click **Upgrade** to update the camera's software to the latest version.
- 4. Wait for the uploading process to complete, and the camera will reboot automatically.

## P Note:

- 1. We recommend you to use a wired connection for your camera and PC when upgrading firmware.
- 2. The firmware upgrade procedure must not be interrupted or the camera may be damaged.
- 3. The firmware upgrade procedure is always risky and do not try to upgrade new firmware if it's not necessary.

## 3.5.4 System Log

On this page, you can review any changes and events happened to your camera. The system starts logging automatically after startup.

Time	Module	Level	Content	
[2013-01-02/00:27:29]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:28]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:28]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:28]	UserManage	DEBUG	Get user info:admin	
[2013-01-02/00:27:27]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:27]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:26]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:26]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:25]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
[2013-01-02/00:27:25]	FTP	DEBUG	msgrcv failed No message of desired type, continue	
Level: ALL 🗸	Module: ALL	~		

- > **Time:** Displays the time when the log event occurs. The log can get the correct time after you configure on the Date/Time page. (go to <u>Advanced  $\rightarrow$  Date/Time</u>)
- Module: Displays the module to which the log information belongs. You can specify the module by selecting one from the Module drop-down list at the bottom.
- Level: Displays the severity level of the log information. You can specify the level by selecting one from the Level drop-down list at the bottom.
- > **Content:** Displays the details of the log information.
- > **Refresh:** Click **Refresh** to refresh the log information.
- Save Log: Click Save Log and follow the instructions on the browser to save the log as a text file named log.txt to your specified location.
- > Clear Log: Click Clear Log to clear all the log information.

# **Appendix A: Specifications**

SYSTEM			
Image Sensor	1/4" Progressive scan CMOS sensor		
Resolution	0.3 Megapixel (640*480)		
Lens	F: 2.8, f: 3.85mm		
Viewing Angle	FOV=64°		
Digital Zoom	4x Digital		
Minimum Illumination	0.5 Lux		
Video/Image			
Video Compression	MJPEG		
Frame Rate & Resolutions	Max: 20 fps at 640*480 (VGA)		
	Max: 30 fps at 320*240 (QVGA)		
Video Streaming	Controllable frame rate and bandwidth		
	Rotation: Mirror, Flip, Mirror Flip		
Image	Configurable brightness, contrast, saturation		
	Overlay capabilities: time, date, text		
	Audio		
Audio Communication	1-way		
Audio Input	Built-in microphone		
Audio Compression	РСМ		
Alarm and Event Management			
Input Trigger	Motion detection		
Notification Method	E-mail, FTP		
Network			
Standards and Protocols	Bonjour, TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP,		

	Samba, NFS, DNS, NTP, UPnP, RTP, RTCP, HTTP, HTTP	
	TCP, UDP	
Security	Multiple password-protected user levels	
	Wireless	
Wireless Data Rate	IEEE 802.11b/g/n, Up to 300Mbps	
Frequency	2.4-2.4835GHz	
Wireless Transmit Power	<20dBm (EIRP)	
Wireless Encryption	WEP, WPA/WPA2, WPA-PSK/WPA2-PSK	
Minimum System Requirements		
	Microsoft Internet Explorer 7 or higher	
	Firefox 4.0 or higher	
Supported Browser	Safari 4.0 or higher	
	Chrome 5.0 or higher	
	Opera 12.0 or higher	
Supported OS	Windows XP/Vista/7/8	
	Mac OS X 10.7 or higher	
General		
External Power Supply	9V DC, Max 9W	
Certification	CE, FCC, RoHS	
	Operating Temperature: 0℃-40℃ (32°F-104°F)	
Environment	Storage Temperature: -40°C-70°C (-40°F-158°F)	
Environment	Operating Humidity: 10%-90% non-condensing	
	Storage Humidity: 5%-90% non-condensing	
Dimensions (H*W*D)	96*61*24mm	

# Appendix B: Troubleshooting

Question	Answer or Resolution		
Features			
The maximum number of users accessing the camera simultaneously.	The maximum number of users is limited to 13. However, it also depends on the total bandwidth accessed to this camera from clients. The actual number of connected clients varies by streaming mode, settings of resolution, frame rate and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on.		
The camera can be used outdoors or not.	The camera is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case might disable the audio function of the camera.		
Install this camera			
System LED does not light up.	<ul> <li>Check and confirm that the DC power adaptor, included in package, is used. Secure the power connector and re-power it on again.</li> <li>If the problem is not solved, the camera might be faulty. Contact your dealer for further help.</li> </ul>		
The camera will be installed and work if a firewall exists on the network.	If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port needs to be opened on the firewall or NAT router.		
The username and password for the first time or after factory default reset	Username is <b>admin</b> and password is <b>admin</b> . Note that it's all case sensitive.		
Forgot the username and password	<ul> <li>Follow the steps below.</li> <li>1. Restore the factory default setting by pressing and holding the WPS/RESET button (more than 5 seconds) on the camera.</li> <li>2. Reconfigure the camera.</li> </ul>		
Forgot the IP address of the camera.	<ul> <li>Run the Setup Wizard. The IP address is displayed on the Select a camera screen.</li> <li>Find the IP address on the DHCP setting page of the front device such as router.</li> </ul>		
Internet Explorer does not seem to work well with the camera	Make sure that your Internet Explorer is version 7.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage.		
	UPnP NAT Traversal		
Cannot work with NAT	Maybe NAT router does not support UPnP function. Please		

router	check user's manual of router and turn on UPnP function.		
	<ul> <li>Maybe UPnP function of NAT router is not compatible to the IP camera. Please contact your dealer to get the approval routers list.</li> </ul>		
Some cameras are working but others are failed	<ul> <li>Maybe too many cameras have been installed on the LAN, and then NAT router is out of resource to support more cameras.</li> </ul>		
	• You could turn off and on NAT router to clear out of date information inside router.		
Access this camera			
	<ul> <li>Maybe the IP Address of the camera is already being used by another camera or computer. To confirm this possible problem, disconnect the camera from the network first, and then run the PING utility to check it out.</li> <li>May be due to the network cable. Try correcting your network</li> </ul>		
	cable and configuration. Test the network interface by connecting a local computer to the camera via a crossover cable.		
	<ul> <li>Make sure the Internet connection and setting is ok.</li> <li>Make sure the IP address typed in is correct. If the camera has a dynamic address, it may have changed since you last checked it.</li> </ul>		
	<ul> <li>Network congestion may prevent the web page appearing quickly. Wait for a while.</li> </ul>		
Connot access the web	• The IP address and Subnet Mask of the PC and camera must be in the same class of the private IP address on the LAN.		
Cannot access the web management page and other web pages of the	• Make sure the http port used by the camera, default=80, is forward to the camera's private IP address.		
camera from Internet Explorer	• The port number assigned in your camera might not be available via Internet. Check your ISP for available port.		
	• The proxy server may prevent you from connecting directly to the camera, set up not to use the proxy server.		
	<ul> <li>Confirm that Default Gateway address is correct.</li> </ul>		
	The router needs Port Forwarding feature. Refer to your router's manual for details.		
	Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details.		
	<ul> <li>Access the camera from the Internet with the global IP address of the router and port number of camera.</li> </ul>		
	• Some routers reject the global IP address to access the camera on the same LAN. Access with the private IP address and correct port number of camera.		
	<ul> <li>When you use DDNS, you need to set Default Gateway and DNS server address.</li> </ul>		
	<ul> <li>If it's not working after above procedure, reset camera to default setting and installed it again.</li> </ul>		
	• If the problem is not solved, the camera might be faulty. Contact your dealer for further help.		
Image or video does not appear in the main page.	• Make sure the plugin is installed properly and your browser security settings are set to allow plugins. Close and restart the browser. Try to browse and log in again.		
	When using Windows XP, or Vista, log on with an appropriate		

	account that is authorized to install applications.	
	<ul> <li>Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.</li> </ul>	
	• Might be caused from the firewall protection. Check the Internet firewall with your system or network administrator. The firewall may need to have some settings changed in order for the camera to be accessible outside your LAN.	
The camera work locally but not externally.	<ul> <li>Make sure that the camera isn't conflicting with any other web server running on your LAN.</li> </ul>	
	• Check the configuration of the router settings allow the camera to be accessed outside your local LAN.	
	<ul> <li>Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.</li> </ul>	
The unreadable characters are displayed.	Use the operating system of the selected language. Set the Encoding or the Character Set of the selected language on the Internet Explorer.	
	• The traffic of the network and the object of the image affect the frame rate. The network congestion causes frame rate slower than the setting.	
Frame rate is slower than the setting.	<ul> <li>Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.</li> </ul>	
	Ethernet switching hub can smooth the frame rate.	
Image Transfer on e-mail	<ul> <li>Default Gateway and DNS server address should be set up correctly.</li> </ul>	
or FTP does not work.	<ul> <li>If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.</li> </ul>	
	Video quality of the camera	
The focus on the camera is bad.	• The lens is dirty or dust is attached. Fingerprints, dust, stain, etc. on the lens can degrade the image quality.	
The color of the image is	• To insure the images you are viewing are the best they can be, set the Display property setting (color quality) to 16bit at least and 24 bit or higher if possible within your computer.	
poor or strange.	<ul> <li>The configuration on the camera image display is incorrect. You need to adjust the image related parameters such as brightness, contrast, and saturation properly.</li> </ul>	
	• Wrong power line frequency makes images flicker. Make sure the 50 or 60Hz format of your camera.	
Image flickers.	<ul> <li>If the object is dark, the image will flicker. Make the condition around the camera brighter.</li> </ul>	
Miscellaneous		
Cannot play the recorded file	Have installed Microsoft®'s DirectX 9.0 or later and use the Windows Media Player 11.0 or later to play the AVI filed recorded by the camera.	