

Wi-Fi® HD Camera with Night Vision

NETCAM HD+



User Manual

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GETTING STARTED

Congratulations on buying a Belkin NetCam HD. This device will enable you to easily check in on your home and your loved ones when you are away.

What's in the Box

NetCam HD+

Power Supply

Quick Installation Guide

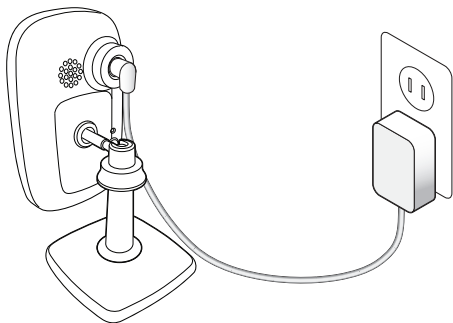
Mounting Kit

Initial Setup

To get started, you will need:

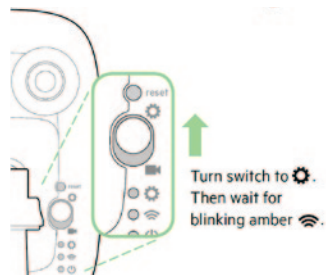
Your wireless router, its network name (SSID), and password.

An Android™ device (Version 2.3 or later) or an iPhone, iPad, or iPod touch (iOS Version 5.0 or later).



Set Up Your Camera Wirelessly Through Your Mobile Devices

1. Plug the NetCam into a power outlet



2. Switch the NetCam to Setup Mode by flipping up the switch on the back of the camera

Please make sure the switch is in ⚙️ setup mode and the 📶 Wi-Fi light is blinking.



Apple App Store



Google Play Store



Settings



3. Download the latest Belkin NetCam app or update to the latest version.

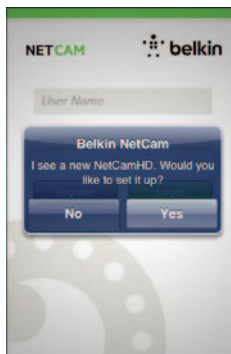
Note: When download is complete, don't open the app yet. Please proceed to step 4.

4. Set Up on iPhone, iPad, or iPod touch

4.1 Connect your mobile device to NetCam Wi-Fi signal

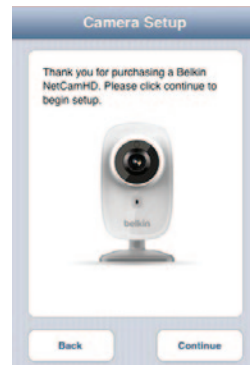
Go to "Settings > Wi-Fi" on your iPhone/iPad/iPod touch and connect to the camera's Wi-Fi signal.

Move to next step only after connection is confirmed.



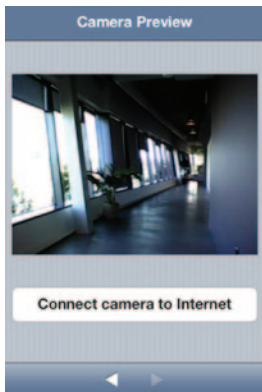
4.2 Launch the NetCam App

Once your device establishes a connection with the camera, launch the NetCam App. You should see a pop-up message like the one below. Click “Yes” to set up your camera. If you don’t see the pop-up, you are not connected to the NetCam HD+ Wi-Fi signal. Repeat step 4.1 and wait for confirmation of the connection.



4.3 Camera Setup

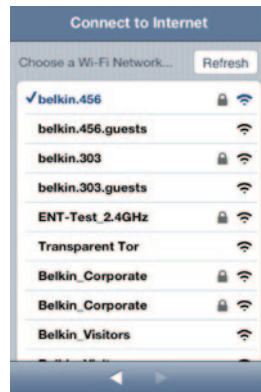
Click “Continue” to begin setup.



4.4 Camera Preview

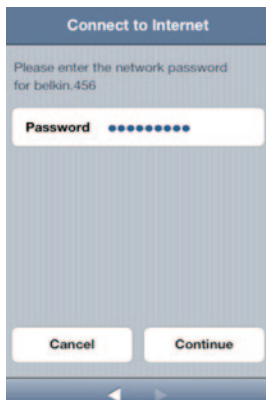
The camera will show you a preview after successfully connecting to your device.

Click “Connect Camera to Internet.”



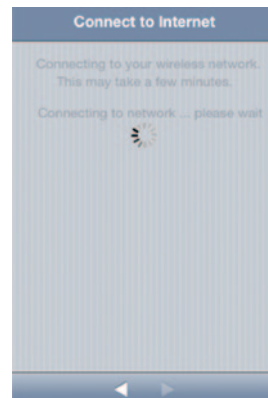
4.5 Connect to Internet

Choose your Wi-Fi network to connect to the Internet.

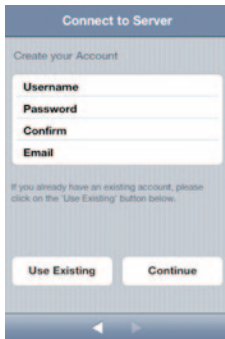


4.6 Connect to Internet

Enter your Wi-Fi password if you have a security-enabled network.

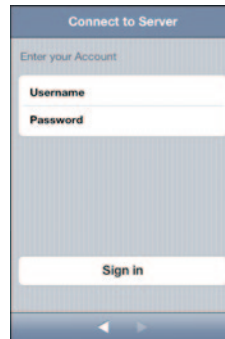


Please wait for the camera to establish connection with the Internet.



4.7 Create an Account

If this is your first time setting up your camera, you will need to create an account.



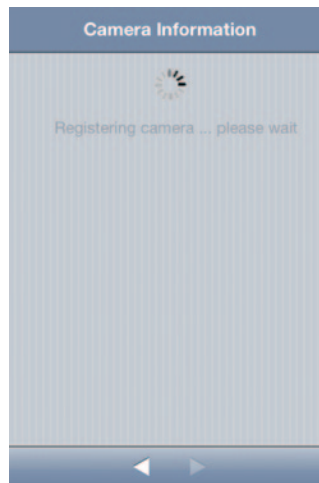
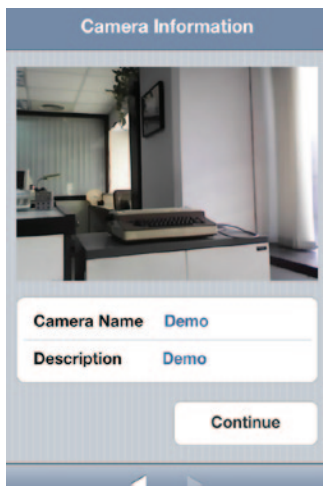
4.8 Use Existing Account

If you have an existing account, select "Use Existing" and then enter your account information. Click "Sign in."

4.9 Set Up Camera Info

Create the camera name and its description.

Click “Continue.” It will take a few seconds to register the camera with the server.

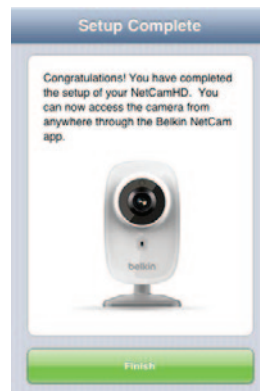




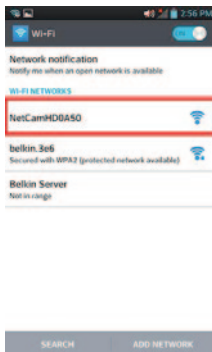
4.10 Setup Complete

Please flip the setup switch down on the back of the NetCam.

Click "Finish" to complete the setup.



Congratulations!

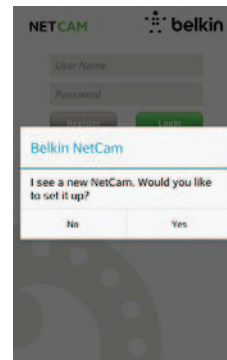


5. Set Up on Android Devices

5.1 Connect your device to NetCam Wi-Fi signal

Go to “Settings > Wireless” and “Network > Wi-Fi settings” and connect to the camera Wi-Fi signal.

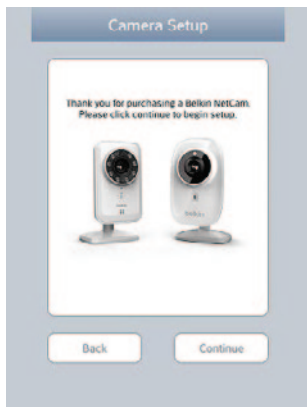
Move to the next step only after the connection is confirmed.



5.2 Launch NetCam App

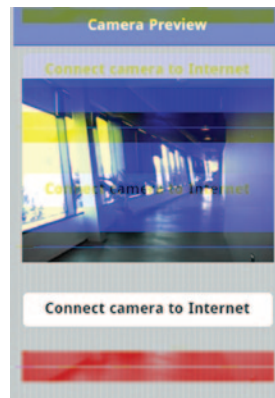
Once your device establishes a connection with the camera, launch the NetCam App. You should see a pop-up message like the one below. Click “Yes” to set up your camera.

If you don't see the pop-up, you are not connected to the NetCam HD+ Wi-Fi signal. Repeat step 5.1 and wait for confirmation of the connection.



5.3 Camera Setup

Click "Continue" to begin setup.



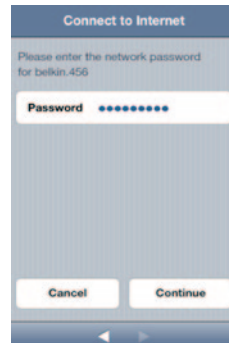
5.4 Camera Preview

The camera will show you a preview after successfully connecting to your device. Click "Connect camera to Internet."



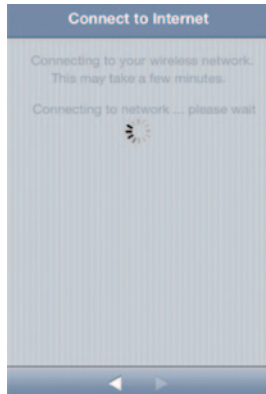
5.5 Connect to the Internet

Choose your Wi-Fi network to connect to the Internet.

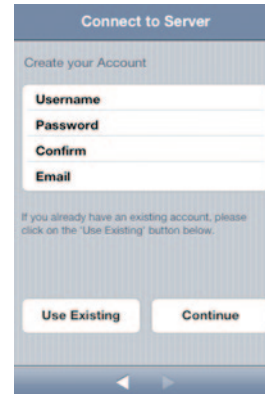


5.6 Connect to Internet

Enter your Wi-Fi password if you have a security-enabled network.

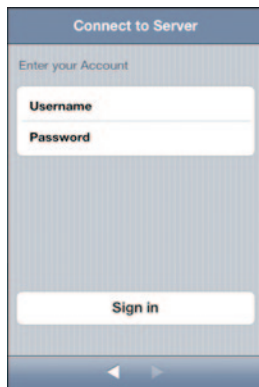


Please wait for the camera to establish an Internet connection.



5.7 Create an Account

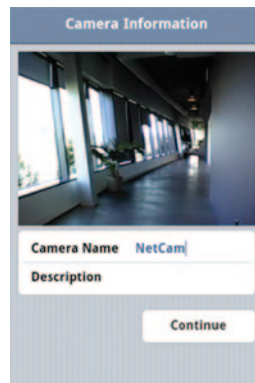
If this is your first time setting up your camera, you will need to create an account.



The screenshot shows a mobile application screen titled "Connect to Server". Below the title, it says "Enter your Account". There are two input fields: "Username" and "Password". At the bottom of the form is a "Sign in" button. The screen has a blue header and a light blue background.

5.8 Use Existing Accounts

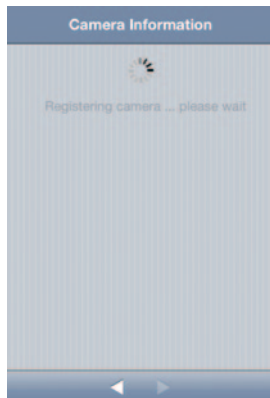
If you have an existing account, select "Use Existing" and then enter your account information. Click "Sign in."



The screenshot shows a mobile application screen titled "Camera Information". It features a video feed of a hallway with large windows. Below the video, there are two input fields: "Camera Name" with the text "NetCam" and "Description". At the bottom right is a "Continue" button. The screen has a blue header and a light blue background.

5.9 Set Up Camera Info

Create the camera name and its description.



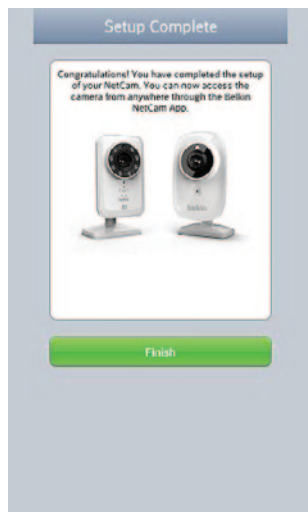
Click "Continue." It will take a few seconds to register the camera with the server.

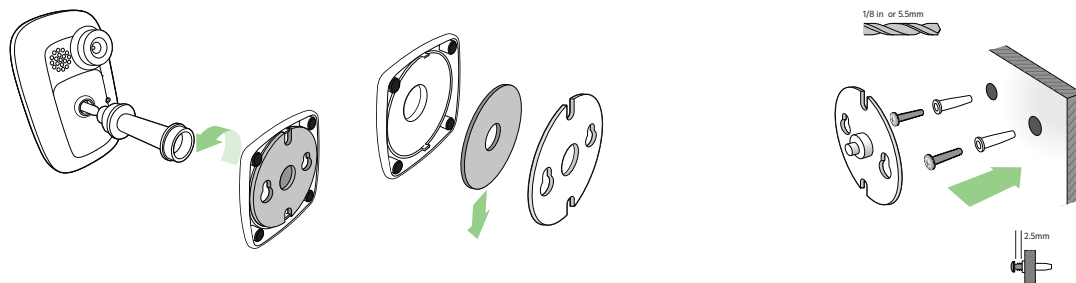


5.10 Setup Complete

Please flip the setup switch down on the back of the NetCam. Click "Finish" to complete the setup.

Congratulations!

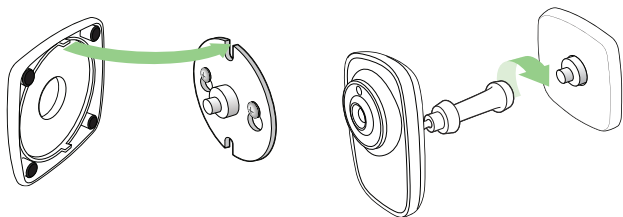




6. Mounting Your Camera (optional)

Unscrew camera post from the base and remove weight.

Attach screws to wall and hang plate onto screws.



Align base with plate and screw on camera post.



Front Panel

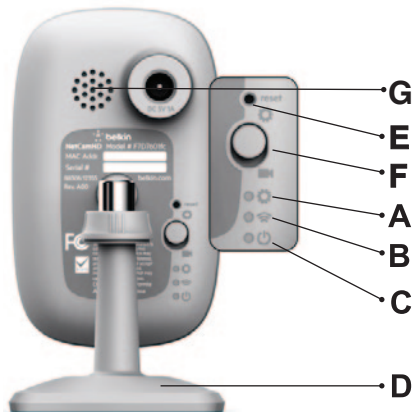
A: Brightness sensor

B: Camera sensor

C: IR LED

D: Microphone

Back Panel



LED Indicators

A: Setup

Green: Setup up mode on
Amber: Setup mode initializing
Light Off: Setup mode off

B: Network

Green: Connected to server
Orange: Connected to local area network only
Flashing Amber: Not connected to any network
Flashing Green: Connected to network, ready to set up

C: Power

Green: Power On

D: Camera Stand

You can adjust the NetCam's position by adjusting the stand.

E: Reset button

Reset System: Press and hold for 1 second to reset the system.
Factory Default: Press and hold for 20 seconds to restore factory default settings.

F: Setup switch

Flip up to switch to setup mode.
Flip down to switch to camera mode.

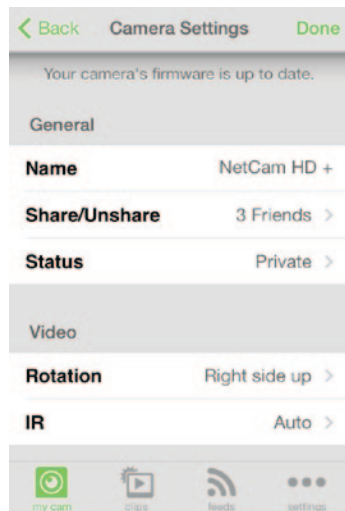
G: Speaker

For talk-back functionality.

Software Features and Specifications

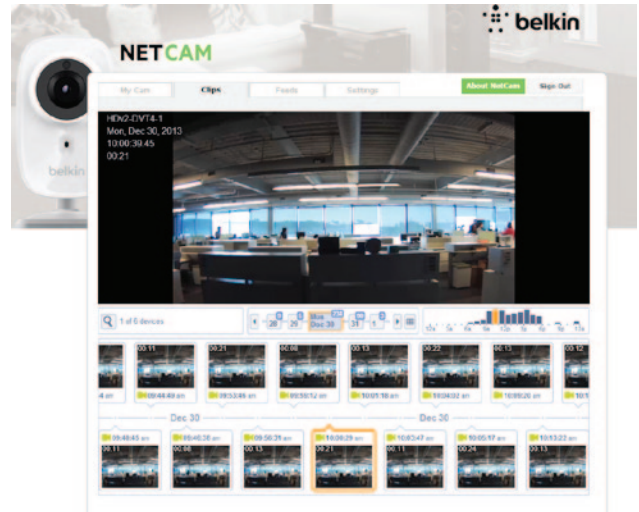
App on iOS or Android

- Camera setup
- Live camera viewing
- Save snapshot and video from the live stream
- Live two-way audio
- Camera settings
 - Enable/disable email alert
 - Camera sharing
 - Set camera status (online, private)
 - IR LED Control
 - Auto adjust
 - Video stream (Video resolution, quality)
 - NetCam Cloud +
 - Free Trial
 - Purchase Plan
- General settings
 - Reset password
 - Sign in automatically
- Invite friends to view your camera
- NetCam Cloud + Clips
 - View stored clips

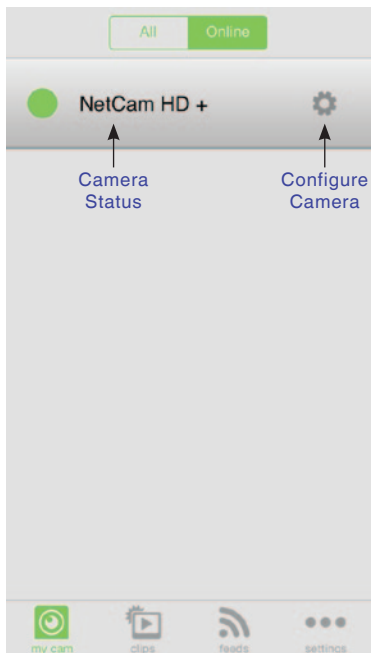


Web App

- Live camera viewing
- Live audio on selected PC web browsers (Internet Explorer®, Firefox®, and Google Chrome™)
- Camera settings
- Camera firmware upgrade
- Delete camera
- Invite friends to view your camera
- Enable/disable email alert
- User account management
- Reset password
- NetCam Cloud + Clips
 - View clips
 - Download clips
 - Delete clips
 - Search for clips by time



Main Window



Camera Configuration

Camera Name

Sharing

- Shared: Camera is shareable
- Private: Camera isn't being shared

Audio

- On/Off

Speaker Volume

Infrared Lights

- Auto/On/Off

Screen Rotation

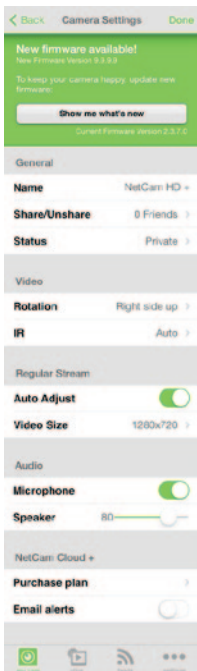
- Right side up
- Upside down

Size

- 320x180
- 640x360
- 1280x720

NetCam Cloud +

- Purchase Plan
- Email alerts

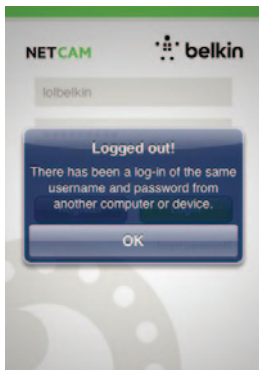


Capture Image

Record Video

Enable/Disable Audio

Push-to-Talk



Protection

To protect your security against a hacker, a pop-up message will alert you if someone else is logged into your account at the same time as you.



Web Browser

Access this link via Internet Explorer, Netscape, Firefox, or Google Chrome: <http://www.belkin.com/netcam>

Then you can view the camera via your PC.

NetCam Cloud +

How to activate the Cloud + free trial

1. Go to the Camera Settings on which you wish to start the free trial.
2. In the Camera Settings screen, select the option for **Purchase Plan**.
3. Select **Free Trial**.
4. Confirm you want to activate the free trial by selecting **Yes**.

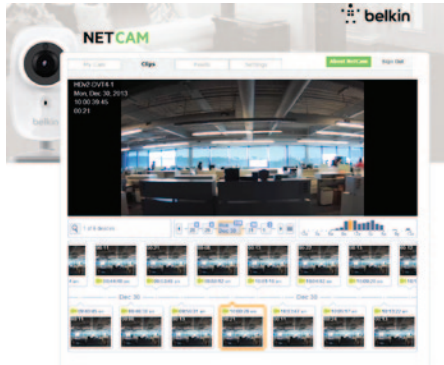
How to purchase the Cloud + service

1. Go to the Camera Settings on which you wish to start the service.
2. In the Camera Settings screen, select the option for **Purchase Plan**.
3. Select the option that suits you and follow the on-screen options.
Choices include:
 - a. 1 month
 - b. 3 months
 - c. 1 year

How to view clips saved on the cloud

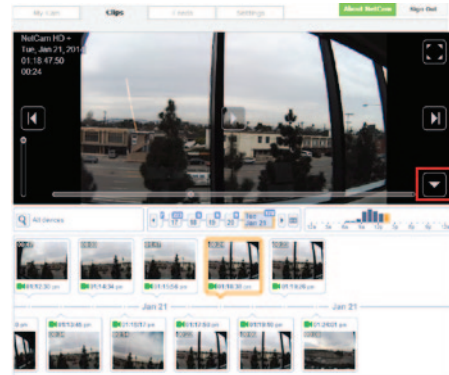
From the app:

1. Log into your NetCam account.
2. Select the **Clips** tab at the bottom of the screen.
3. From the **Clips** tab, select the camera that created the clips you wish to view.
4. Select the clip from the list to begin watching it.



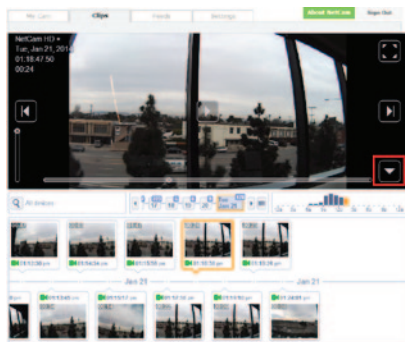
From a web browser:

1. Log into your NetCam account by going to <http://www.belkin.com/netcam>
2. Once logged in, click on the **Clips** tab at the top of the video viewer.
3. Find the clip you wish to view by choosing the date and/or time it was recorded. Once the clip has been selected, it will begin playing.



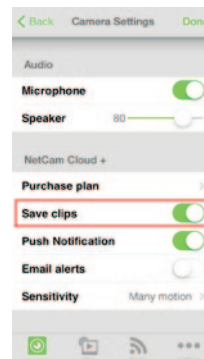
How to delete a clip saved on the cloud

1. From a web browser only, go to the **Clips** tab.
2. Select the clip you wish to delete and hover your cursor over the video feed.
3. In the bottom right corner of the clip, select the downward arrow.
4. Select Delete.
5. Confirm you wish to delete the clip by selecting OK.



How to download a clip saved on the cloud

1. From a web browser only, go to the **Clips** tab.
2. Select the clip you wish to download and hover your cursor over the video feed.
3. In the bottom right corner of the clip, select the downward arrow.
4. Select **Download**.
5. Depending on the web browser you're using, the clip will either begin to download or ask where you want to save the clip. Select a folder on your computer that you will remember when you wish to view the clip now stored on your computer.



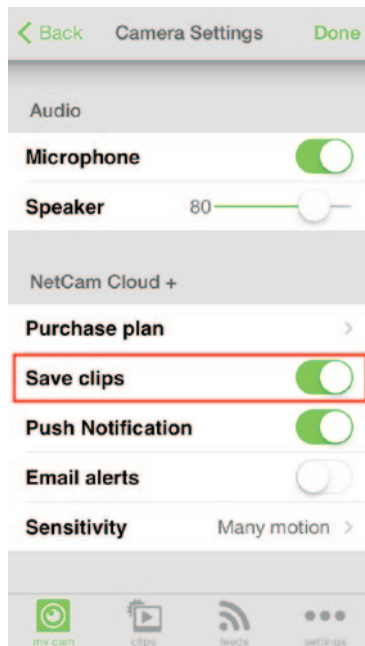
How to enable/disable saving clips to the cloud

1. From the NetCam App, go to the camera settings page of the NetCam with the cloud storage you wish to disable.
2. Scroll to the bottom of the settings page and enable/disable the **Save clips** option.

How enable/disable push notifications and email alerts

Note: Push notifications and email alerts can only be activated if you have already enabled the option for saving clips.

1. From the NetCam App, go to the camera settings page of the NetCam with the cloud storage you wish to disable.
2. Scroll to the bottom of the settings page and enable the **Save clips** option if it is disabled.
3. Once **Save clips** has been enabled, you will see the options to enable/disable Push Notifications and Email alerts.



Hardware Features and Specifications Camera

Camera	
Image Sensor	2MP 1/3.2 inch CMOS sensor
Lens	Focal length: 3.0mm, F2.0
View Angle	Diagonal: 91°
IR LEDs & IR Cut Filter	4 IR LEDs 8-meter illumination distance IR Cut Filter
IR Mode	Always on Always off Auto mode <ul style="list-style-type: none"> • IR turns on when luminance decreases to about 3 lux • IR turns off when luminance increases to about 8 lux
Ambient Light Sensor	RoHS-compliant 560nm luminance detector

Video	
Codecs	H.264
Resolution	1280x720, 640x360, 320x180
Frame Rate	Up to 25 frames
Still Image Capture	720P still capture
Video Features	Adjust image size and quality

Audio	
Audio In	Built-in microphone, -38 dB ± 2 dB
Audio Compression	G.711, PCM
Audio Out	Built-in speaker

Networking	
Network Interface	802.11b/g/n WLAN
Wireless Connectivity	802.11b/g/n Wireless with WEP/WPA/WPA2 security
Radio Specifications	RF band: ISM Band 2.4GHz Channels: Varies by country RF Power Output <ul style="list-style-type: none"> • 802.11n: 14 ± 1 dBm Average • 802.11g: 14 ± 1 dBm Average • 802.11b: 16 ± 1 dBm Average
Antenna	Type: Chip antenna, SMD Gain: 1.5 dBm peak Efficiency: above 80%

General	
System	<p>Processor: RT7620 Speed: 580MHz SDRAM: 128MB Flash: 16MB</p>
Button	<p>Reset Button</p> <ul style="list-style-type: none"> Reset system: Press less than 1 second to restart the system Factory default: Press and hold 20 seconds to restore the factory default settings
Switch	<p>Setup mode switch: Turn setup mode on and off</p>
LEDs	<p>Setup Mode LED</p> <ul style="list-style-type: none"> Solid Green: Setup Mode on Amber: In progress to switch to Setup Mode No light: Setup Mode off Network LED Solid Amber: Local network ok Solid Green: Connection to Internet ok Flashing Amber: No network yet Flashing Green: Global Internet ok System LED Solid Green: System on
Power	<p>External AC-to-DC switching power adapter Input: 100-249V AC, 50/60Hz Output: 5V DC, 1A</p>



System Requirements

iPhone, iPad, or iPod touch with iOS 5 or above

or

Android devices Version 2.3 or above

PC OS: Windows® XP, Windows Vista®, or Windows 7, or Mac OS® X v10.6.8 Snow Leopard

PC browsers: Internet Explorer 8, Google Chrome 16, Firefox 11.1, Safari® 5.1

Using the latest Adobe Flash Player

Resetting the Camera

The “Reset” button is used in rare cases. In the unlikely event that your camera functions improperly, please use a pin to reset the camera. The Reset button is where the arrow below points. Reset the camera when the switch is in “OFF” mode. After the reset, the camera will resume to the default setting.

- Reset system: Press and hold for 1 second to reset the system
- Reset to factory default: Press and hold for 20 seconds until all of the LEDs blink three times

TROUBLESHOOTING, SUPPORT, AND WARRANTY



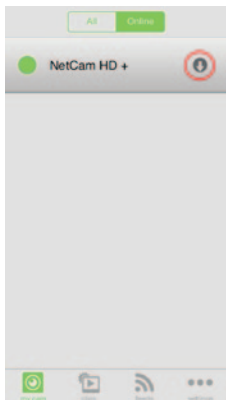
If I buy more cameras, could I use the same username to connect them?

Unlimited cameras can be added under your own account, but each one should have a different camera name. The figure below shows that you can have different cameras under your account.



How can I share my cameras with my friends?

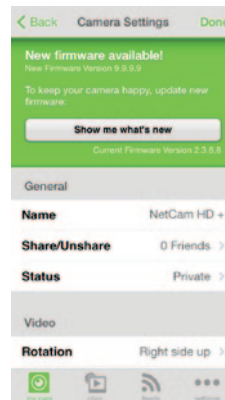
Log into your account. In the **My Cam** tab, select the camera you wish to share, and then select the **Sharing** button. Type in your friend's email address to invite him or her to see your camera.



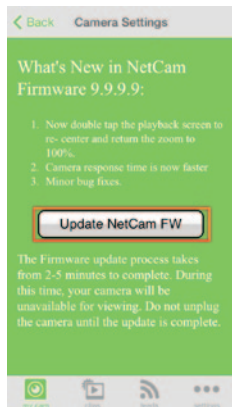
How can I upgrade the firmware?

There are two ways to upgrade the firmware on your NetCam HD+.

1. Upgrade the firmware from the NetCam App:
 - a. Log into your NetCam account from the app
 - b. Find the camera you wish to upgrade from the list
 - c. Tap the down arrow to the right of the camera name



d. Tap Show me what's new



e. Tap **Update NetCam FW**



2. Upgrade the firmware from a web browser:

a. In a web browser, go to <http://www.belkin.com/netcam>

b. Log into your NetCam account

c. Find the camera you wish to upgrade from the list and select it

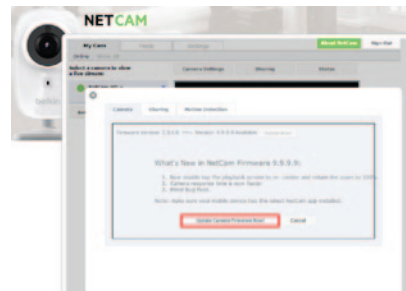
d. Click the **Camera Settings** button above the feed

e. Click **Update Now!**



f. Click **Update Camera Firmware Now!**

Note: Once the camera's firmware begins to update, please allow 3–5 minutes for the process to complete. During this period your camera may become unresponsive; this is normal behavior. Do not power the camera off during the update, or you may render the unit non-operational.



Can I change my username?

Your username is what identifies your account information, and once set, it cannot be changed. If you later do not like your username, the only recourse is to create a new account. Please note that any subscription services registered in the old account (if applicable) cannot be transferred to the new account.

Forgot or lost your password?

The NetCam App login screen has a link labeled “Forgot Sign In?” that takes you to the account sign-in webpage. Type in your username and email address, and then click the Reset button to begin the process of setting up a new password

Belkin International, Inc., Limited 2-Year Product Warranty

What this warranty covers.

Belkin International, Inc. (“Belkin”) warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin warrants the Belkin product for two years.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product). Belkin reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued products. In the event that Belkin is unable to repair or replace the product (for example, because it has been discontinued), Belkin will offer either a refund or a credit toward the purchase of another product from Belkin.com in an amount equal to the purchase price of the product as evidenced on the original purchase receipt as discounted by its natural use.

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, lightning, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service.

To get service for your Belkin product you must take the following steps:

1. Contact Belkin International, Inc., on the phone number listed on page 41, within 15 days of the Occurrence. Be prepared to provide the following information:
 - a. The part number of the Belkin product
 - b. Where you purchased the product.
 - c. When you purchased the product.
 - d. Copy of original receipt

2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OF CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

REGULATORY INFORMATION

Technical Support

US

<http://www.belkin.com/support>

UK

<http://www.belkin.com/uk/support>

Australia

<http://www.belkin.com/au/support>

New Zealand

<http://www.belkin.com/au/support>

Singapore

1800 622 1130

Europe

<http://www.belkin.com/uk/support>

You can find technical-support information on our website, www.belkin.com, by navigating to the tech-support section.

If you want to contact technical support by phone, please call the number you need from this list*:

*Local rates apply.

COUNTRY	NUMBER	INTERNET ADDRESS
AUSTRIA	0820 200766	www.belkin.com/de/networking/
BELGIUM	07 07 00 073	www.belkin.com/nl/networking/ www.belkin.com/fr/networking/
CZECH REPUBLIC	239 000 406	www.belkin.com/uk/networking/
DENMARK	701 22 403	www.belkin.com/uk/networking/
FINLAND	0972519123	www.belkin.com/uk/networking/
FRANCE	08 - 25 54 00 26	www.belkin.com/fr/networking/
GERMANY	0180 - 500 57 09	www.belkin.com/de/networking/
GREECE	00800 - 44 14 23 90	www.belkin.com/uk/networking/
HUNGARY	06 - 17 77 49 06	www.belkin.com/uk/networking/
ICELAND	800 8534	www.belkin.com/uk/networking/
IRELAND	0818 55 50 06	www.belkin.com/uk/networking/
ITALY	02 - 69 43 02 51	www.belkin.com/it/networking/
LUXEMBOURG	34 20 80 85 60	www.belkin.com/uk/networking/
NETHERLANDS	0900 - 040 07 90	€0.10 per minute www.belkin.com/nl/networking/
NORWAY	81 50 0287	www.belkin.com/uk/networking/
POLAND	00800 - 441 17 37	www.belkin.com/uk/networking/
PORTUGAL	707 200 676	www.belkin.com/uk/networking/
RUSSIA	8-800-555-0231	www.belkin.com/networking/
SLOVAKIA	08000 04614	www.belkin.com/networking/
SLOVENIA	0800 80510	www.belkin.com/networking/
SOUTH AFRICA	0800 - 99 15 21	www.belkin.com/uk/networking/
SPAIN	902 - 02 43 66	www.belkin.com/es/networking/
SWEDEN	07 - 71 40 04 53	www.belkin.com/uk/networking/
SWITZERLAND	08 - 48 00 02 19	www.belkin.com/de/networking/ www.belkin.com/fr/networking/
UNITED KINGDOM	0845 - 607 77 87	www.belkin.com/uk/networking/
OTHER COUNTRIES	+44 - 1933 35 20 00	

Declaration of Conformity with electromagnetic compatibility and electromagnetic interference

We, Belkin International, Inc., of Schiphol-Rijk, Netherlands, declare under our sole responsibility that the device, F7D7602, complies with Directives stated in our EU declaration which can be obtained from our website given below.

Caution: Exposure to Radio Frequency Radiation.

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

CISPR 22 Interference Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to the requirements of EN 55022 and EN 55024. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to 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.

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

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC, the EMC Directive 2004/108/EC, and the low-voltage Directive 2006/95/EC. A copy of the European Union CE marking “Declaration of Conformity” may be obtained at the website: www.belkin.com/doc

For information on product disposal please refer to: <http://environmental.belkin.com>

General Safety Information:

- For indoor installation only
- For installation with supplied power adapter only
- The supplied power adapter is the product’s switch-off device. The base socket must be near the product and easily accessible.



