Lanberg

WIRELESS KIT

Statement

Thank you for purchasing our product! This quick user guide will talk about main usages of the product. More information can be found on our website **www.lanberg.eu** and the help center. This user guide may contain inaccurate content due to hardware and software upgrade. It is subject to change without previous notice.

Safety Caution

1. Please do not put any fluid container on the product.
2. Please use the product in ventilated environment and prevent blocking the vents.
3. Please use included power supply with the product to prevent damage to the product.
4. Please use the product under its standard working temperature and humidity.(advised in this manual or distributor's website)
5. Dust on PCB may cause short circuit.It is suggested to clean the dust on PCB timely to make the product work properly.
6. Please obey the regulation and policy in your country and area during the installation of this.
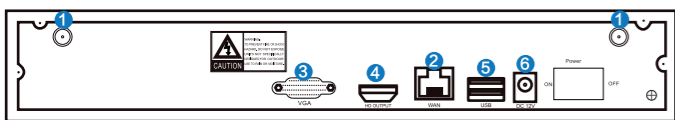
Out Of Box Audit

After receiving the product, please check all products and accessories with information below. If any is missed or damaged, please contact the distributor.

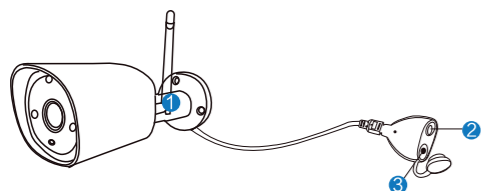| ITEM:	QUANTITY:
WIFI NVR	1pcs
Screw bag(4 screws for HDD)	1pcs
DC 12V 2A power supply (for NVR)	1pcs
User manual	1pcs
WIFI IP Camera*	4/8pcs
DC 12V 1A power supply(for IPC)*	4/8pcs
Screw bag (for IPC) *	4/8pcs
Antenna Extension Cord*	1/2(4CH/8CH)pcs

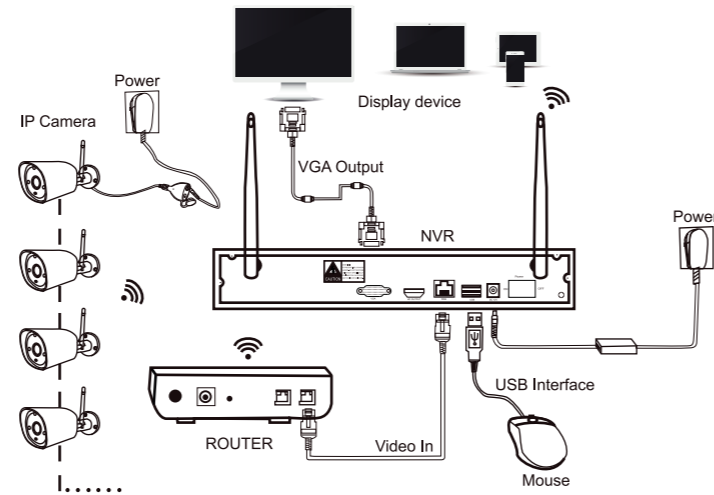* quantities given in order for a 4-channel, followed by an 8-channel set (4ch/8ch).

NVR

1. **WIFI Antenna Ports:** Double antennas to WIFI range
2. **WAN Port:** Connect your NVR to Internet
3. **VGA Port:** For viewing on VGA monitor
4. **HDMI Port:** For viewing on HDTV
5. **USB Ports:** For mouse and backup
6. **Power Input**

IPC

1. **WIFI antenna:** WiFi connection with NVR;
2. **DC Port:** input power 12V 1A;
3. **Reset button:** press reset button for 10 seconds to restore factory setting and enter into matching-code mode.

1

Installation Instruction Of WIFI NVR KIT

Power
IP Camera
Display device
VGA Output
NVR
Power
USB Interface
ROUTER   Video In
Mouse

Note:
Wireless NVR can't be connected to WIFI router wirelessly at present. They can be only connected by network cable.

Setup The System

This system is standalone with embedded Linux Operating System in the NVR. Just like a desktop PC, need to hook a screen to the NVR to enter the OS. Any TV , monitor with VGA or HDMI input should work for it.

1. Install antennas for cameras and the NVR;
2. Connect a screen to the NVR via its HDMI or VGA port(HDMI and VGA cable not included);
3. Plug the NVR to power(use bigger 12V 2A power adapter);
4. Plug cameras to power(use smaller 12V 1A power adapters);
5. Within seconds, you should see camera's images on the screen;
6. Plug the mouse(included) to an USB port on back of NVR. You shall then be able to operate on the system.

In the OS you can find fullest functionalities including live view, record, playback, video backup and all settings.
Default ID: admin
Password: none *(means leaving the password empty, just click login)*
Tips：To protect your privacy, please set your password at earliest convenience. Right click the mouse→Go to System Setup→System Admin →User Management to set password.

HDD Install

Tips: the system may not include hard disk depending on the kit you selected. the NVR works most 3.5" SATA HDD or 2.5"SATA HDD

1. **Unplug your NVR from power,**unscrew and remove the top cover.

2. Connect the SATA power and data cables from the NVR to the corresponding ports on your HDD (as shown).

3. holding the hard drive and the DVR ,gently turn it over and line up the holes on the hard drive with the holes on the NVR. using a phillips screwdriver,screw the provided screws into the holes and assemble the cover.
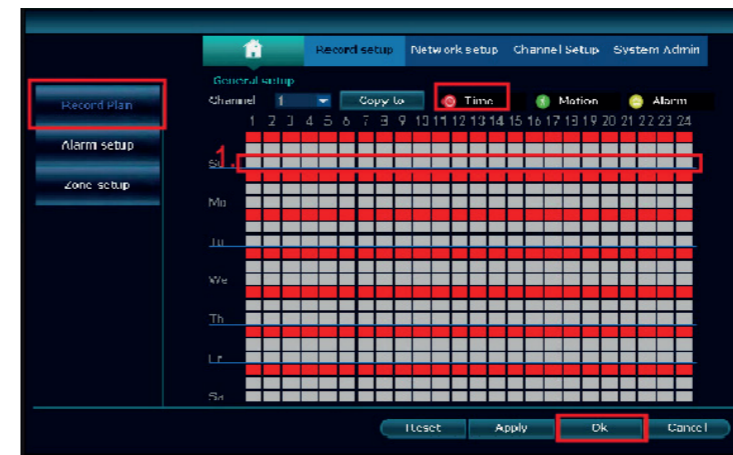
Note: New HDD have to be formatted before recording.
To get better WIFI signal, it had better place the NVR in open area and high position.

2

Record video

Record video is very easy on camera system.

1. **Time Recording:** Setup period of time of recording on NVR GUI .Right click mouse→System Setup→Record setup→Record Plan.Click "time"and put mouse icon on the upper left corner(for example"1"as picture shows),press and drag the mouse to the right to choose the time.The list will turn to red.
2. **Motion Recording:** Only detect motion and then start recording.Right click mouse→System Setup→Record setup→Record Plan.Click"motion"and put mouse icon on the upper left corner(for example"1"as picture shows),press and drag the mouse to the right to choose the time. The list will turn to green.
3. **Alarm recording:** Right click mouse→System Setup→Record setup→Record Plan.Click "Alarm"and put mouse icon on the upper left corner(for example "1"as picture shows),press and drag the mouse to the right to choose the time. The list will turn to yellow.

Note: Users can setup any period of time they want,for example 0:00:00 - 23:59:59,That's 24 hours *7 days recording.When NVR detects hard disk,the default setting will be 24 hours*7 days recording.

Video Playback

Steps:right clik mouse in main menu→Video playback→choose date,channel,record mode →click search→then can view playback file.
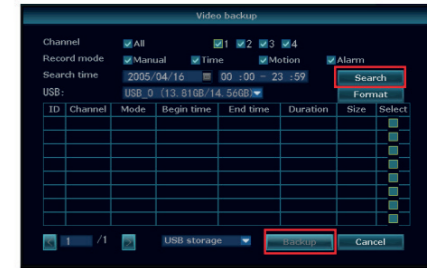
1. IIIustration for playback button: ▶ play, ⏸ pause: ⏩ fast forward*2,*4,*8；
2. Play file: Choose the recording file in file list,as number"1"shown in picture. Choose one of the recording, click "play"to play to recording file;
3. Video backup: Choose the recording file in file list,as number"1"shown in picture.insert the U flash disk, click "video backup"to backup the file;
4. Timeline: Click "date"and "time"at left bottom to check the timeline of recording, as number"2"shown in picture;
5. On the timeline with recording file,left click the mouse, the can playback the file.
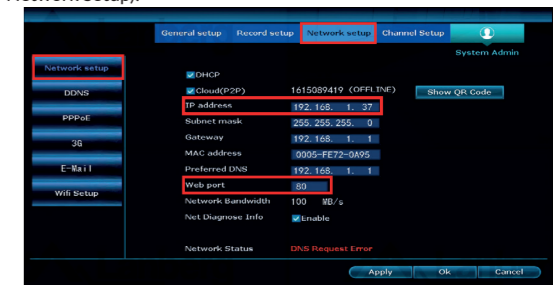
3

Video Backup

Use U disk to copy video,so easy and convenient!

1. **2 USB ports:** Plug U flash disk into the USB port of NVR. Right click on main menu→Video backup→choose backup channel→choose video mode→setup searching time→search→choose recording file on the list→video backup (support 32G U flash disk at max. Recording file is packed one hour per time.)
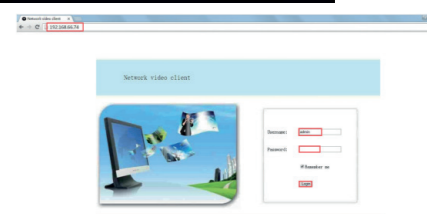
View On PC Via IE (Internet Explorer)

1. When your PC is in same LAN with the NVR（normally means they are connected to the same router）
Step1. Find the IP address and port# of your NVR(IP address can be found in System Setup→Network Setup).

Step 2. Enter the NVR's IP address in your IE browser for example: http://192.1.1.7(If the default WEB port 80 has been changed e.g. to 100,you'll need to add new port number when input IP address in the browser, for example: http://192.168.1.7:100).

2. **OPTIONAL** - When your computer/laptop is out of home/local network (eg. You want to have a preview from the office). Access from the CLOUD ID to the device
Step 1. Open your browser and enter the website address in the search engine: www.noip.com - the website owner provides free DDNS services.
Step 2. Required account creation.
Enter: Hostname - the name you chose (eg Michał123) Choose a domain from the drop-down list (eg DDNS.net Click on "Sign UP" to create an account.) After completing the data, please confirm your email to activate your account. step by step just like a service provider leads you.
Step 3. NVR settings - Please enter System Options→Network →DDNS Director choose "NO-IP"→URL enter the hostname (eg Michał123) and the selected member from the drop-down list (eg ddns.net)→User enter the email given during registration→Password enter the password provided during registration. Click the TEST button. If the data is entered correctly, the tests will pass
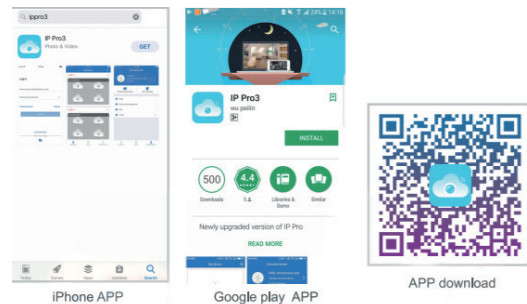**Step 4.** In the browser, enter, for example, michal123.ddns.net and then we will open a page identical to the one in the local network. You must log in with administrator data from the NVR (login and password).

NOTE: For proper configuration, you should have public IP and port forwarding (available manual also at www.noip.com right after registration). View On Mobile
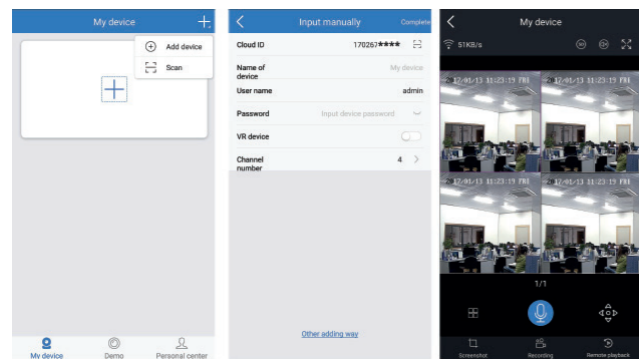
4

View On Mobile

1. Download the APP "IP PRO"
   Users can use cellphone to scan the QR code below to install the APP free of charge,or users can search "IP Pro 3.0"on APP store or Google Play then install the APP .

iPhone APP   Google play APP   APP download

Note: For IOS system,it requires IOS 8.0 version or above.For android, android 4.4 or above.

2. Add the NVR system to your APP device list
   Run the APP "IP PRO", login with your account or choose Trial→Click"+"to "Add device by ID"→find it the NVR's Network setup, or right bottom corner on screen),Description(e.g. Home Camera), User name (default user name is "admin")and password(default is empty)→ Submit to get back to your device list→Click the device to view the cameras.
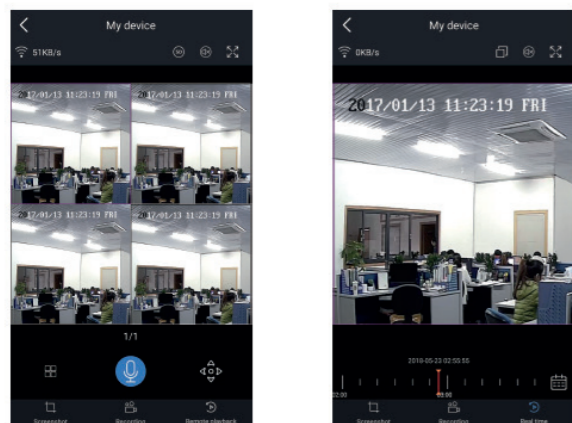
Tips: if you've set a password on your NVR system, please update your password on APP to view.

Playback On Mobiles

In the IP PRO APP，while viewing live video of the system, click Playback, you will enter the remote playback menu. The APP automatically playback camera 1, you can switch channels the CH.
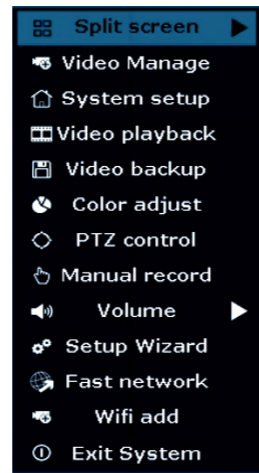
Tips: Videos in playback are HD@real time which requires very good transmission condition. We suggest to playback in LAN. Remote playback out of LAN may not 100% work due to connection & network condition.

MENU-Do What

Menu bar

Click right button you can enter the main menu; click right button again you can exit the current menu or return.

Split screen: change status of live view. You can choose to view multiple cameras or any single camera.
Video Manage: manage IP cameras and NVR channels.
System setup: all system settings.
Video playback: playback recorded videos.
Video backup: backup recorded videos.
Color adjust: adjust the image setting of each camera.
Manual record: shortcut to change the record settings.
Volume: Adjust volume of audio cameras(works only for audio cameras).
Setup Wizard: step by step guide of 1st time general settings.
Fast Network: shortcut to network settings.
Wifi add: add IP cameras into NVR channels wirelessly.
Adjust channel: adjust the order of the NVR channels.
Exit System: logout, reboot, close screen output and shut down the system.
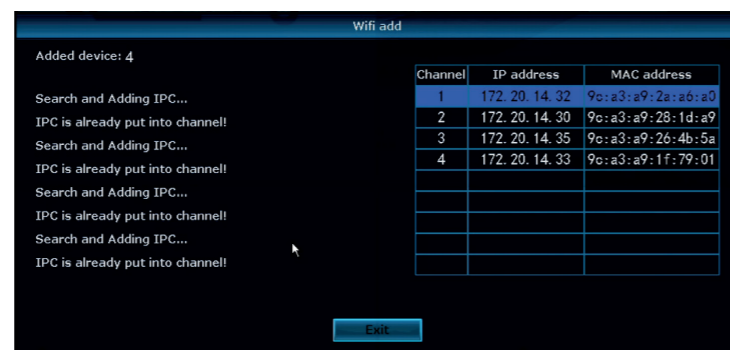
System Setup

Click right button→Choose System setup; you then shall enter the menu that enables you to do all settings related to this system.

● **General setup**
   Language
   Time
   Display resolution
   HDD informaion

● **System admin**
   System version
   System maintenance including system upgrade
   User and password management
   Restore to default settings
   System log

● **Record setup**
   Record plan for each channel video detectionr

● **Network setup**
   All network related settings

● **Channel setup**
   Manage channels and cameras

Wireless Match-code Operation Procedure

Step 1: Start NVR and IPC.Right click mouse→Wifi add→match-code interface.
Step 2: Press reset button on camera for 10 seconds and get match-code mode.
Step 3: Click "Exit"after adding.Matching code completes.

Note: Default valid time to match code is within 10 minutes after IPC starts.if overtime, match code function will shut off.users have to press reset button on camera for 10 seconds and get match-code mode again.
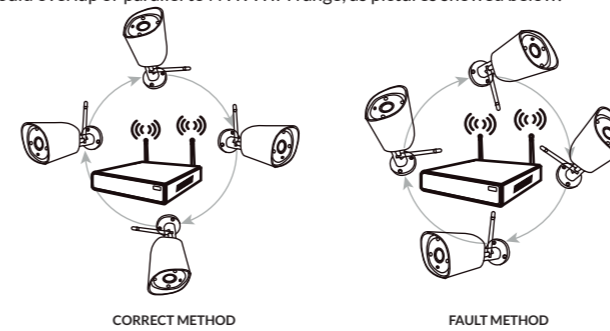
Extend WIFI Range

Wireless connection is easy and convenient, but it's not universal application. Because of the character of WIFI, the WIFI signal will decrease when going through some obstacles. Some methods can be applied to bypass obstacles and extend WIFI range.
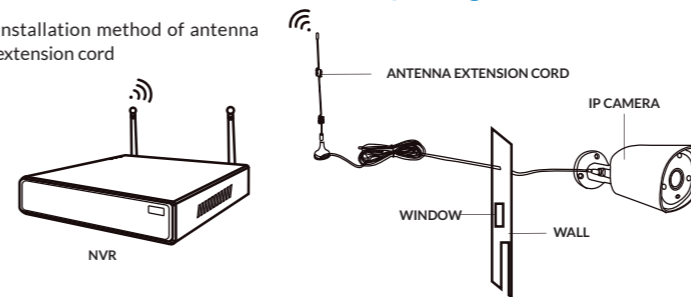
1. Position The Antenna Correctly

WIFI range is like an apple and the antenna of NVR is in the center of it. WIFI signal is strong all around the WIFI range. Antenna of NVR should be put straight up, if not, WIFI signal will be weak. According to the signal transmission character of antenna, the antenna of cameras should overlap or parallel to NVR WIFI range, as pictures showed below:

CORRECT METHOD   FAULT METHOD

2. Use Antenna Extension Cord to prolong WIFI distance

Installation method of antenna extension cord

ANTENNA EXTENSION CORD
IP CAMERA
WINDOW   WALL
NVR

Notes: When WIFI signal is not strong enough against walls, users can take off the original antenna and subtitute antenna extension cord. Drill a hole on the wall to let the extension cord go through and simply it where WIFI signal is strong.
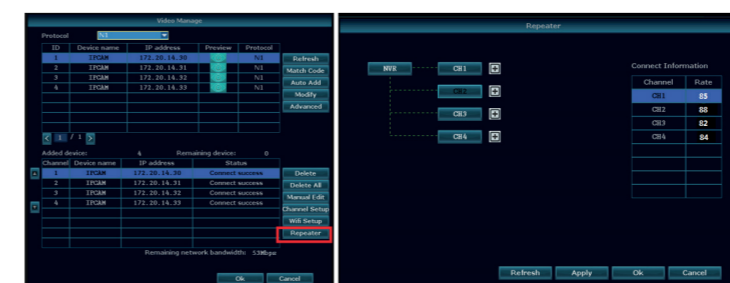**Notes:** In case you notice a decrease in the quality of neighboring wireless connections (eg. Wi-Fi router) on the 2.4 GHz band, check if your device transmits signals on the same channel as the camera recorder - channel 1. If so, try changing the broadcasting channel Your device (eg. in the router) to another usable channel - 11 or 6 (assuming the router's Wi-Fi operation at 20 MHz bandwidth).

3. Set up cascading connection in a reasonable solution, extend wifi signal transfer distance

Note:
1. Repeater function can't strengthen WIFI signal for wireless NVR kit, but can extend the distance by repeaters -- WIFI cameras.
2. Only when the repeater cameras and repeated cameras are positioned correctly, WIFI distance will be extended.
3. Repeater function and 3 meters antenna extension cord are two methods to extend WIFI range. Users can choose one according to real situation.
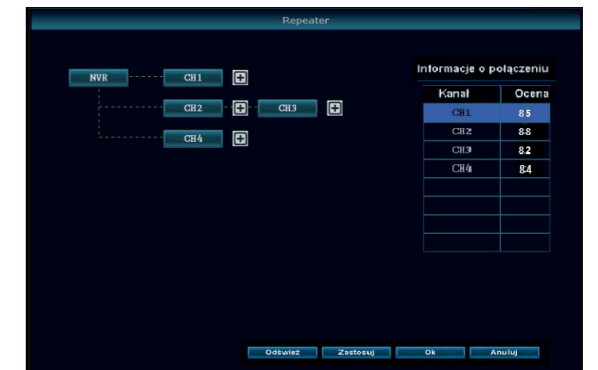
Repeater Setup

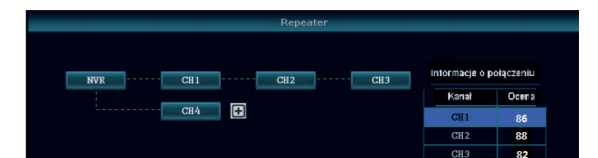**Step 1:** Right click on NVR'S GUI, left click "video management"→ then left click repeater"
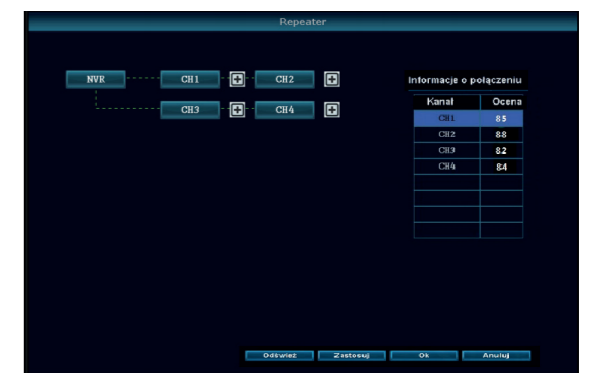
Step 2: Add repeater
As picture shown below, click icon + besides channel 3, choose other channel.

Step 3: As picture shown below, it means IPC1 is connected to NVR through IPC2 and IPC3. IPC2 is connected to NVR through IPC3. IPC3 is connected to NVR directly.
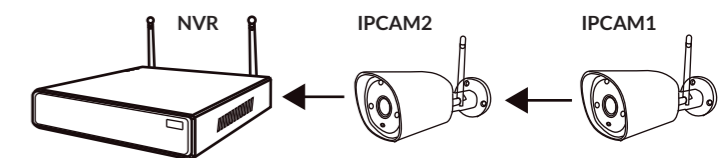
Step 4: Click "Apply" and then click "refresh" to check if the setting is successful.

Delete Repeater

Move the mouse to targeted channels, left click to delete, and then click "Apply" and "OK".

Application Example

NVR   IPCAM2   IPCAM1

As picture shown above, when IPCAM1 is put somewhere is out of NVR WIFI range, and there is IPCAM2 between them with strong WIFI signal, users can put IPCAM1 close to NVR and power it, setup IPCAM1 repeated by IPCAM2, and then install IPCAM1 to the presupposed place.

Warning

In order to reset the password on the recorder, enter a random string of characters into the designated login field and confirm it to trigger the appearance of the error message. Then alternately press the buttons of the connected mouse to the recorder 6 times, starting from the left and ending with the right one (left, right, left right etc.). After doing this, you will see a message about restoring default users - press "Yes". Then a window will appear with the option of setting a new password - in this case, you do not need to provide the old one.

Notes:
Producer: Impakt S.A. ul. Stanisława Lema 16; 62-050 Mosina - Poland
Declaration of Conformity CE - www.lanberg.eu
Country of origin: Chiny / China
Warranty: 24 months.
General warranty terms available at: www.impakt.com.pl/service.html