USER MANUAL

SMART BABYCAMERA
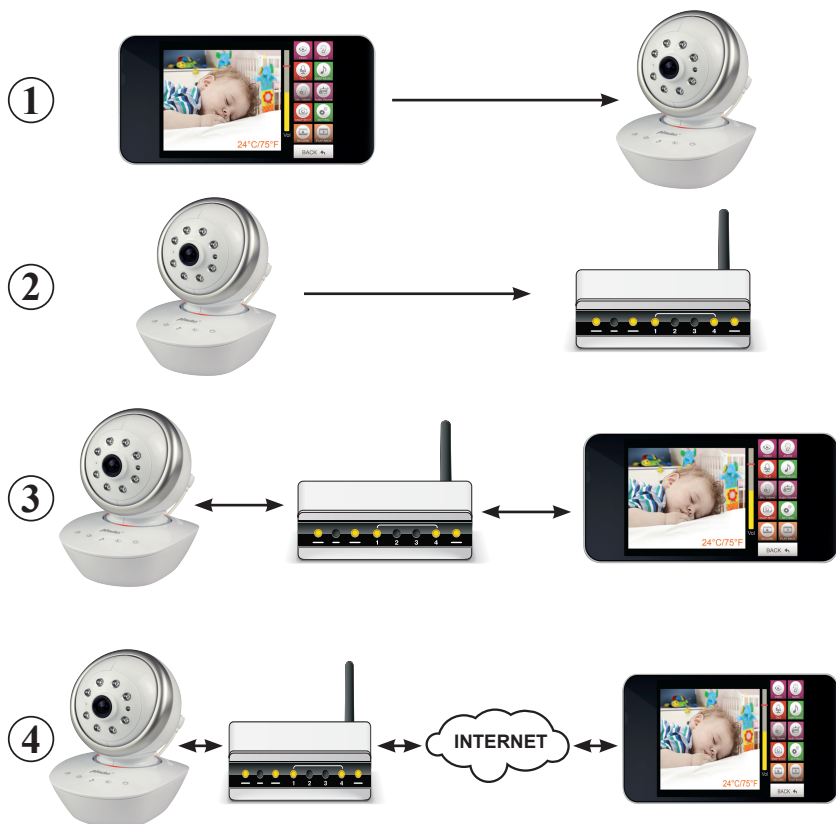# iOS

Alecto® IVM-200

1   PRODUCT OVERVIEW

The Alecto Smart baby camera is a wireless audio/video baby monitor, suitable for indoor use in conjunction with a tablet or a smart phone.
The camera can be viewed and operated via the internet or local (WI-FI) network.
The camera is easy to connect through our Real Plug & Play system by using a **UID** code (Unique Identification Device.

2   CAMERA INSTALLATION

2.1   DOWNLOADING THE CAMERA APP

1. Download the Alecto BabyCam APP. from the APP store.
2. Install the APP onto your smart phone or tablet.
3. Connect the camera to an electrical outlet using the net adapter.
4. Turn the switch located on the bottom of the camera to pairing. Press the touch power button to turn on the camera. The light ring around the neck of the camera will light up 3 times to indicate that the camera is turned on. The camera will now work as a Wi-Fi access point. It can take several minutes before the camera is completely tuned. After that, the camera can be accessed with your tablet or smartphone directly.
5. Select the Alecto-IVM-200 as your Wi-Fi router on your tablet or smart phone. This can be done in the configuration settings for Wi-Fi connection. Enter the password: 12345678.
6. Once you have an established Wi-Fi connection with the Alecto Camera start the downloaded Alecto BabyCam APP.
7. You will now see the camera image on the screen.
8. Now press the green "SETTING" button. A popup menu with "Camera password" will appear. Enter the camera password "12345678" and then press "ok".
9. A new popup menu will now appear. Choose "Connect camera with Wi-Fi". Wi-Fi access points in your area will now appear. Choose your own router and Wi-Fi access point and enter the password of your Wi-Fi network. Then press OK.
10. Now slide the switch located at the back of the camera to "LINK" and wait approximately 2 minutes for the camera to connect.
11. Leave the APP and return to the Wi-Fi configuration settings in the control panel of your tablet or smart phone. Select you own Wi-Fi network again in order to access the internet.
12. Restart the Alecto BabyCam APP.
13. A list of registered cameras will appear. When registering the first camera, only one camera will be displayed on the screen. The unique UID code can be seen here.
14. Press on the Alecto Baby Cam icon to make an established connection with the camera.

You can also get a connection with the camera by using another Wi-Fi network or GSM data network connection. Due to excessive data traffic only 4 minutes of video streaming will be shown per session.
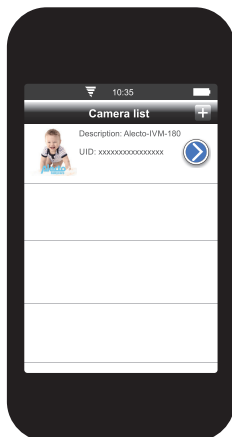
2.2   STARTING THE IOS APP.

Start the app. by clicking the Start icon button.

The following screen will appear.

Press the [→] button to go to the login details on the camera.

Press the [+] key to add a new camera. You will see the same screen except the login details are empty. The UID, Password, Name and Notification fields will be empty.

UID: Unique IDentification code. This code ensures that the camera can be reached easily from the outside.

Password: This is where you can fill in the password. By default, the password is "12345678". You can change the password once the camera is active. To prevent abuse, the password should be changed. See section 4.3 on how to change the password.

Description: The name of the camera is displayed here. When there is an alarm notification the name of the camera will be displayed. If multiple cameras are connected, it is useful to give each camera a name These names can be changed here.
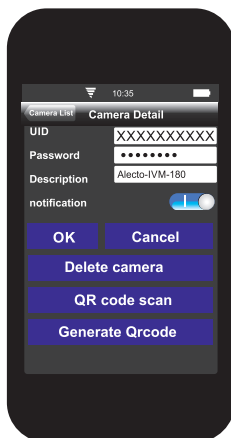
Notification: By checking this box you can enable the push notifications function during an alarm phase. Notifications can be sent once certain level of sound has been reached coming from the room, or if the room temperature exceeds a certain limit.

*Delete camera***:** Press the key to delete the camera from the app.
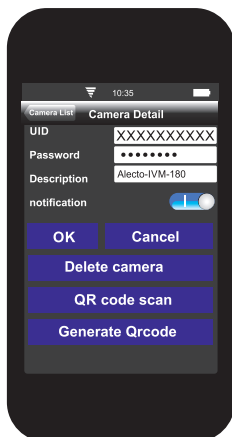
2.3   CAMERA LOG IN TO SECOND SMARTPHONE.

Download the app. from the Apple store and install the app. Start the app. and go to the screen opposite by pressing the ⊞ button.

Camera Detail panel:
- 10:35
- Camera List   Camera Detail
- UID   XXXXXXXXXX
- Password   ••••••••
- Description   Alecto-IVM-180
- notification
- OK   Cancel
- Delete camera
- QR code scan
- Generate Qrcode

Take a smartphone or tablet that is already connected to the camera using the app. Start the app. and go to the screen opposite by pressing the button. Now press on Generate QR code. A QR code will now be generated giving all the details of the camera. The QR code will appear at the bottom of the screen. It is possible that you may need to scroll down to the bottom of the screen. The QR code can also be found on the label on the bottom of the camera.

Take the second smartphone or tablet (either an Android or IOS). Press the QR code scan key. Using the built-in camera on the smartphone or tablet you can now read the QR code from the 1st device.

Camera list panel:
- 10:35
- Camera list
- Description: Alecto-IVM-180
- UID: xxxxxxxxxxxxxxx
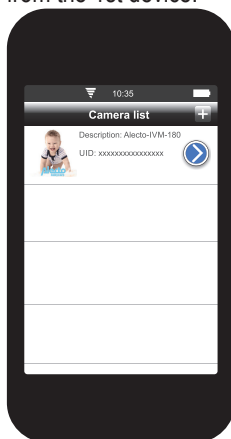
Then press ok. The camera is now logged on to the second device

2.4 SETTING UP MULTIPLE CAMERAS WITH THE APP.

Set the new camera to pairing mode, and then connect the camera to an electrical outlet. Select the Wi-Fi connection of the camera (SSID Alecto_IVM-200) on your smartphone or tablet so that it will make a connection with the camera. Start the App and follow the instructions as detailed in section 2.1.

When the procedure is finished, a second camera will appear in the camera list. The new camera is now registered.

You can only look at one camera at a time. Alarm Notifications will come from both cameras (if enabled). It is advised to change the name and password on the camera's as soon as possible.
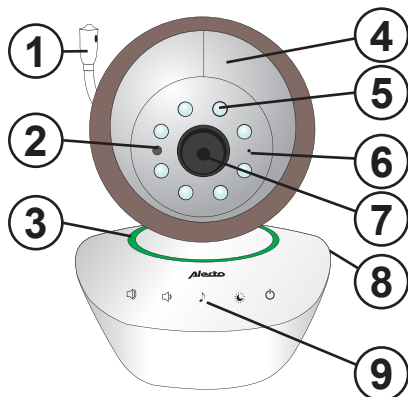
Description: Alecto-IVM-180
UID: xxxxxxxxxxxxxxx
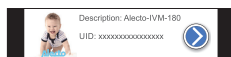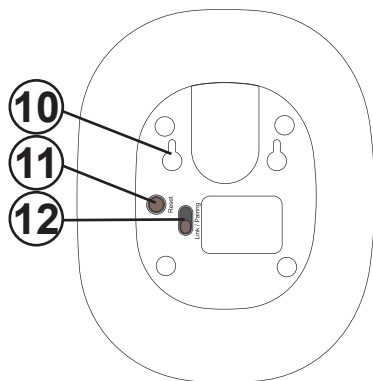
2.5 VIEWING IMAGES ON THE CAMERA.

Press on the icon to go to the display on the camera.

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3.1 OVERVIEW CAMERA

1. Temperature sensor
2. Sensor for IR LEDS
3. Indication led/night light
4. Pan and tilt camera head
5. Infrared LEDs
6. Microphone

7. Lens
8. Power adaptor
9. Control keys
10. Mounting fixture
11. Reset key
12. Set up switch link/pairing

LED Indicator: (located on the back at the output of the temperature sensor)
Red   - no connection
Flashing green   - ready as a local Wi-Fi access point
Green   - connected to the network

Sensor for IR LEDS:
Infrared LEDs used to light up the dark around the lens.
The illumination of the infrared LEDs only gives light that the camera can see.

3.2 CONTROL THE CAMERA

There are a number of operation controls on the camera itself not related to the app. These keys are designed as touch keys. While touching the key will vibrate slightly.

THE TOUCH BUTTONS HAVE THE FOLLOWING FUNCTIONS:

Volume increase. (10 steps) (the audio volume will also increase in the app.)

Volume decrease.(10 steps) (The audio volume in the app will also be reduced)

Starting and stopping the internal music clips. (This cannot be changed)

Button to put on the night light, choose colour or picking a rhyme or to put off. Press the button repeatedly to switch the various colours and rhymes and/or switch off.

On or off button. Press this button to turn the camera on. The white LED ring will light up 3 times. To turn off the camera, hold the on /off button down for at least 3 seconds. The LED will light up 3x. The camera is now off.

4   OPERATION VIA THE IOS APP

We assume in this chapter that the app is running on your device and that you are connected to the camera via your Wi-Fi network.

4.1   OVERVIEW IOS APP.

Press on this button to talk into the camera.
    Your voice will be heard through the camera.
(only available with an internal Wi-Fi network).

Press on this button to take a photo of the display.

Press on this button to start video recording.

Press on this button to play back and see the video recording.

Press on this button to turn off the screen.The other functions will continue to operate.

Press on this button to turn off the receiving sound from the camera. The other functions will continue to operate.

Button to adjust the loudspeaker volume.

Button to adjust the microphone sensitivity on the camera.

Press on this button to select (baby) music via the camera and play it back (only available with an internal Wi-Fi network).

Button to set the advanced settings.

BACK ↩   Button to return back to the previous menu.

4.2   FUNCTION KEYS WHEN USING THE CAMERA.

Audio and video playback:
The video and audio playback will be active when starting the app.

The keys have bright colours to indicate that they are on. Pressing this [AUDIO] button will switch the sound in the baby's room either [AUDIO] on or [AUDIO] off.

This [VIDEO] button will switch the video playback either [VIDEO] on or [VIDEO] off.

If the notification alert is set up and running, it will continue to work regardless of the above given functions.

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Setting the audio volume of the camera:
The camera has a built-in speaker. This function can be used either to speak to the baby or to play baby music. The volume of the loud speaker in the camera can be set using this [image] button. Press the button and the following screen will appear..
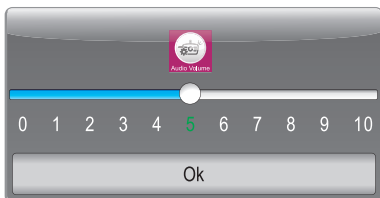
The volume of the camera loud speaker can be set here.

Setting the microphone volume of the camera:
The camera has a built-in microphone. This is used to receive sounds coming from the baby's room. The sensitivity of the microphone can be adjusted using this [image] button. Press the button and the following screen will appear.
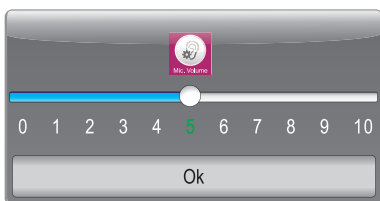
The microphone sensitivity of the camera can be set here.

Please Note: The volume of smartphone and/or tablet will override the volume level of the sound coming from the camera in the room. The alarm detector sound is a combination of the microphone volume sensitivity level and the notification level of detection.

Talk back into the baby room:
You can speak into the baby's room by using the talkback button from either your smartphone or tablet. Your voice will come through the loud speaker located in the camera. Press the 🎤 button. The icon will now change to icons 🎤. Then speak into the microphone on the smartphone or tablet. Your voice will be heard in the baby's room. The volume level of your voice can be set as described in the following:
Set the camera audio volume by pressing the 🔊 button.
If the audio volume is muted (with this 🔊 button), the mute ( ) function will be temporarily disabled if the talk function is turned on by pressing the 🎤. button. The 🎤 icon will then re-appear.

Playing music in the baby room:
Music can be played into the baby room from the smartphone or tablet.
The music will be heard from the loudspeaker in the camera.
The music played should be saved as an mp3 music file on your smartphone or tablet. Press the 🎵 button to scan your music files using the app.
When the files are scanned, a list of music files will appear. Now choose the music you want to play.
The selected music will now be played.
To stop the music prematurely, press the 🎵 button then choose "Stop playing MP3 file". The volume of the music can be set as described here: **Set the audio volume of the camera by pressing the 🔊 button.**

NOTE: If the mp3 play list on your smartphone or tablet is large, it may take a while before the list is loaded. If it seems that nothing is happening, be patient until the entire list is loaded. This also applies if you want to stop playing the music. Press the 🎵 button, to start loading the list again.

The "**Talk back to the nursery**" and "**Play music to the nursery**" functions are only available when the smart phone or tablet is connected to the same local network as the camera. Connecting your smartphone or tablet to these functions from outside the local network will not be possible because of the bandwidth limitations. The icons 🎤 and 🎵 in the app. will disappear.

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Recording and playback:
You can record video images or pictures from the camera screen using the app. The video or still images will be recorded onto the internal memory of your smartphone or tablet.

Making snapshot photos (picture):

Press the ⬚ button to take a snapshot of the screen. This photo will be placed in the photo folder as a jpg file on the internal memory of the smartphone or tablet. The photo can be viewed via "photo's" on your smartphone or tablet.

Make a video recording:

Press the ⬚ button to make a video recording of the image. The video will be placed in the folder as a mov file on the hard drive of the smartphone or tablet. During recording, the video recording button will change to the following icon ⬚. Press the ⬚ button to stop recording the video. The icon will change again ⬚.

View Video recording:

Press the ⬚ button to view the video recording list. Select the video recording that you want to view and press here to view the recording. Press "done" to stop the video playback.

Turn the Camera lens:
Press on the screen to activate the navigation screen. The arrows keys up, below, left and right will now appear. Press one of the arrows to rotate the correct position on the camera. Press the screen to close the navigation screen. Given that the displayed image appears with some delay, the moving of the camera can also be delayed. Rotate the camera slowly using small steps.

4.3   ADVANCED SETTINGS.
Login:
Before you go to the advanced settings menu, you first need to log in with a password. The password is the same as the SSID code for the camera in "pairing" mode. The default password is "12345678".

Press the [icon] button to fill in the password. After entering the correct password, the following screen will appear.

Setting
Wi-Fi Setting
Join Home AP
Camera Setting
Notification Setting
Upload MP3
Night Light Setting
Reset to Default

Cancel
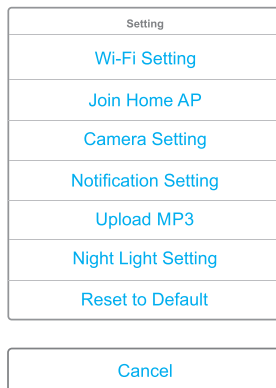
Wi-Fi Setting: Wi-Fi settings of the camera to setup a direct connection to the camera. You can change the password of the camera here.

Join Home AP: Access the point settings from your router to be able to establish a network and Internet connection with the camera.

Camera Setting: Set the frame rate and resolution of the image .

Notification Setting: Alarm settings for sound detection and the temperature alarm.

Upload MP3:   Your own music can be uploaded here so you can play lullabies of your choise to your baby.

Night Light Setting: Setup the light for the night light.

Reset to Default: Reboot to factory settings.

Wi-Fi Settings: (only available via internal network)
In this menu you can set the SSID name and change the password. The SSID name is the name of the camera that shows on your Wi-Fi if you want to make a direct connection with your smartphone or tablet. By default, the name is "Alecto_IVM-200." When using multiple cameras, it is useful to change the name.
You can change the password of the camera in this menu. This is to prevent any misuse of the images by others. This is to prevent any misuse of the images by others. The password should contain 8 characters. After changing the password,

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the registration process should be restarted. Use only a password of 8 digits or characters. The camera does not work with longer or shorter password

Connect the camera with Wi-Fi: (only available when using an internal Wi-Fi network connection)
When you open this menu all the Wi-Fi access points will appear on the screen. Choose your own Wi-Fi network and log in with the correct password for the network. Now change the camera from pairing mode to link mode using the switch located on the back of the camera. Now you can use your own network to connect to the camera. Make sure that no punctuation characters in the password of your Internet router, the camera software can not handle this. If necessary, change the password of the router

Camera settings: (only available when using an internal Wi-Fi network connection)
The frame rate and resolution of the image can be adjusted in this menu.
The frame rate can be set to 15fps (15 frames per second) or 25fps (25 frames per second). 25fps gives a smoother image but has a larger bandwidth.
The resolution of the image can be set as QVGA (320 x 240) or VGA (640 x 480). VGA provides a picture with more pixels but has a greater bandwidth.

Notification settings:
In this menu you are able to set up the alert and notification messages. There are two types of alarms that can be set up. The first is if the room temperature goes below or above a certain level, and the second is if the sound indicator of the camera picks up sound over a certain volume.

Temperature indicator:
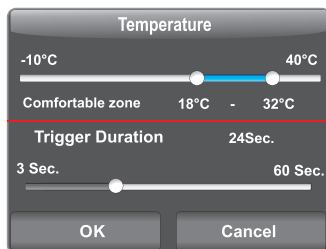
The low and high temperature limits can be set separately from each other.
If the temperature goes outside of these limits then an alarm notification will be sent.
The option to send a notification needs to be enabled (see paragraph 2.2).

Using the trigger length you can set how often an alert message is sent (3-60sec.) during the alarm period. If the trigger time is set to 29 sec. then an alarm notification will be sent every 29 sec. during the alarm period.

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Volume indicator:

Volume Detection

3Sec.   60Sec.

Trigger Duration   33 Sec.

OK   Cancel
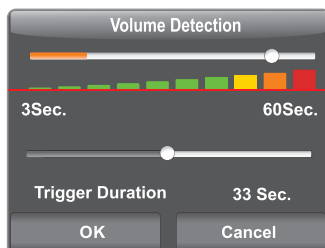
The sound of the volume can be adjusted by sliding the level of the volume detector. If the sound is louder than the volume detection limit, an alarm notification will be sent. Short noise peaks will not be picked up by the volume indicator. Take this into account when setting the volume.
The option to send a notification should be enabled (see paragraph 2.2).

Using the trigger length you can set how often you want a message alert to be sent (between 3-60sec.). If the trigger time is set to 10sec. then an alarm notification will be sent every 10 sec. during the alarm period.

Upload MP3: (only available when using an internal Wi-Fi network connection)
Press the Upload MP3 and all the MP3 music files on the smartphone will be displayed. Choose music suitable for your baby and then upload it to the camera (max.5Mb). The selected music can now be played without a connection to the smartphone. The pre-programmed music will disappear should there be a power failure. After a power failure only the standand music (factory setting) on the camera will remain.

Night Light Setting: (only available when using an internal Wi-Fi network connection)
Via dit tabblad kan de kleur van het nachtlicht worden ingesteld.

Night Light
Breathing Light
Timer   10 min
OK
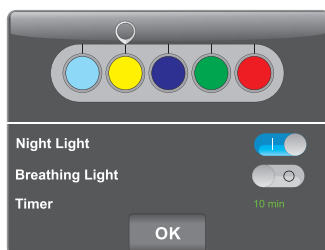
The colour of the night light can be adjusted using this tab. Turn on the light at night by pushing the 'on' button. Select the desired color. Select 'Breathing light' to set the night light to flash a light blue colour. Select the time that you want the night light to stay on by using the timer. After this time, the night light will go off (choose out of 5, 10, 15, 20, 25 or 30 minutes).

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Reset settings: (only available when using an internal Wi-Fi network connection)
In this menu, you can reset all settings back to the factory settings.
The SSID and password will also default back to the factory setting.
 It may be that the camera will need to be re-registered.

The reset switch located at the bottom of the camera will reset the camera. Press this switch for at least 10 seconds in order to reset the camera.

5 OTHER FUNCTIONS

5.1 HOW TO USE IN THE DARK
The IVM-200 camera has built in infrared LEDs which illuminate the room for the camera when it is dark. The image on the screen will be colourless. The LEDs will automatically turn on when the room starts to get dark. A slight flicker in the image may occur if the brightness of the room dims and the LEDs come on. If there is a continued decrease of brightness in the room, the image will stop flickering. The camera will light up around 3 meters from the vicinity of the camera.

5.2 CONNECTING TO THE CAMERA USING THE APP

If some changes occur to the settings of the camera, the camera will reboot and connect to the network again. During this process it will not be possible to make connection with the camera through the app. Wait a few minutes and try to connect again.

6   TIPS AND WARNINGS

6.1   General:
- Read the instruction manual carefully and follow all the instructions.
- Do not place or use the camera in a wet place or damp environment.
- Ensure proper ventilation for the heat; never cover the camera unit and/or the power adapter(s), and never place it directly next to a heat source.
- Only use the supplied adapter(s); using a different type of adapter may cause damage to the electronics.
- Make sure the power cables are not damaged, and ensure the wires will not lead to stumbling or falling over.
- Never take apart the camera unit and/or the power adapter; this should only be done by qualified personnel.
- The video connection is transferred through the public Internet and the connection is secured as much as possible by today's standards. Nevertheless it can still be hacked, and if for some reason this occurs, we assume no responsibility. We advise you to change the default password immediately (see section 4.3 Wi-Fi settings), preferably with a combination of letters, numbers and symbols.

6.2   Installation
- Only connect or disconnect the power adapter when it is unplugged from the electrical wall outlet.
- Do not install the camera during a thunderstorm.
- Do not touch an un-insulated adapter cord unless the adapter is disconnected from the electrical outlet.

6.3   Maintenance
- Clean the camera with a damp cloth, do not use any chemical cleaning agents. Before cleaning, the power adapter should be disconnected.

6.4   Malfunction
- If the camera does not show an image or the sound does not work, check the following:
  - Has the camera been turned on?
  - The correct UID code has been used.
  - The correct password has been used.
  - Is the camera correctly registered to your network.
  - Restart the camera by taking it out of the electrical outlet.
  - Reset the camera by pressing on the reset button located on the bottom of the camera. The camera will reboot. Repeat the complete settings and operations

from the beginning. All the settings will default back to the factory setting.
- Reboot your smart phone.
- In dim light, the camera will switch to night mode so that the infrared lighting will switch on. The image may flash depending on the lightness or darkness in the baby room. Increase or decrease the light in order to solve this problem.
- If you still have no picture or sound, please contact the service department of Alecto at Telephone number: +31 (0) 73 6411 355.

6.5 Delay in sound and vision
- There could be a delay in the signal caused by the encoding and decoding of the picture and sound. Varying bandwidth over the internet could also change the quality of the image and sound.

6.6 Data usage
- If you are using a mobile network, please take note that the data usage may rise significantly while watching a video. When available, it is advisable rather to use a WiFi network.
- Furthermore, the battery usage of your smartphone will increase.

6.7 ENVIRONMENT AND DISPOSAL
- Part of the packaging from this camera can be put into a paper recycling disposal. We recommend however, that you keep the packaging in case you need it again for transportation purposes.
- Should the camera need to be replaced, please send it to your supplier and they will dispose of it in an environmentally friendly manner.

7 DECLARATION OF CONFORMITY
The Alecto Camera complies with the essential requirements and provisions as defined by the European Directive 1999/5/EC. The declaration of conformity is available on the website www.alecto.nl.

Radio frequency: 2.4 GHz (permitted in all EU countries.In France, Italy, Russia and Ukraine permitted solely for domestic use).

www.Alecto.NL

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8   SPECIFICATIONS

Wireless:
RF Frequency   2412MHz - 2462MHz (channel 1~11)
Standard WIFI   802.11b/g/n
RF Output power   11b: 21+/-1dBm/11Mbps;
                                  11g: 18+/-1dBm/54Mbps;
                                  11n: 17+/-1dBm/HT20   -   11n: 17+/-1dBm/HT40
RF Level of Sensitivity   11b: -88dBm/11Mbps;
                                  11g: -74dBm/54Mbps;
                                  11n: -71dBm/MSC7/HT20   -   11n: -68dBm/MSC7/HT40
Transmission range in a open field: >= 80m

Camera:
Image Sensor
type   CMOS
Effective number of pixels (H/V) H:640 V:480
Picture format   H.264
Image resolution   VGA of QVGA
Automatic white-balance   Yes

Image in the dark:
IR LED   8 stuks, 850nm
IR LED control   bepaald door lichtsensor
Scope of LED lighting   baby's face will be clearly visible within 2 meters
Illuminantion   minimal 3 Lux

Microphone:
type   Analog Microphone
                                  Two-way conversation function

Loud speaker: 20x30mm 0.5W
Audio coding
Audio sampling rate   16KHz
Audio resolution   8 bit
Audio coding   PCM

Power:
Power adapter   external DC 5,8V - 1000mA

Mode selection:
Switch Mode   Pairing to Acces Point router / Link naar Acces Point
router

Antenna:
Antenna type   Dipole Antenna

Operating Temperature:
Operating temperature range 0 - 40 °C
Operating humidity   40 - 90% RH

Temperature sensor:
Temperature sensor   NTC type, 10K ohm @25 °C
                            deviation +/- 2 °C

Regulation:
EMI/safety   CE,FCC,UL
ESD   8KV air 4KV conductive

APP:
Mobile phone OS   iOS7.0 and higher, Android 4.0 and higher

9 TROUBLESHOOTING

WIFI registration:
Ensure that the switch on the back of the camera is set correctly. Switch on pairing to connect directly either a smartphone or tablet to the camera. Link the camera connection with your router or access point. This product is designed for plug and play, made for the most common router available in the Netherlands. Nevertheless it is possible that the registration can fail, perhaps because of particular settings which may conflict with the registration.
Below are some points in order to help you to enable the registration, however please note that to use of these options you need to have a good knowledge of your WiFi Router and have access to it. For the settings, you may need to call in a computer network expert or your network provider for help. These settings on the WIFI router may need to be changed using another PC or device.

1- Switch on uPnP feature in the modem/router:
The plug and play feature of the Hesdo server may not be able to access certain settings. The camera can also set up a number of settings with the Wifi router through the uPnP automatically. Therefore set the uPnP feature located on the WIFI router to ON. Note, older WIFI routers may not have the uPnP function.

2- WiFi channels
The camera works on WiFi channels 1-11. Some WiFi routers may have more channels. In this case try to set the WiFi router on a fixed channel between 1 and 11.

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10   GUARANTEE

This IP camera has a 24 months warranty from the date of purchase. We guarantee during this period the free repair of defects caused from the material and workmanship. Some things are kept for assessment of the importer.

WHAT TO DO:
If you notice a defect, first consult the manual. If the manual does not give an answer, check the latest version of this manual on the internet at: www.alecto.nl or www.hesdo-service.nl. You can also contact the supplier of the camera, or the Alecto customer service at: +31 (0) 73 6411 355.

TERMINATION OF GUARANTEE:
For improper use, incorrect connection, faulty installation of firmware, the use of non-original parts or accessories, negligence and damage caused by fire, flood, lightning and natural disasters. For unauthorized modifications and / or repairs by third parties. For incorrect transporting of the equipment without appropriate packaging and if the device is not accompanied by the guarantee certificate and purchase receipt.

Connection cables and plugs are not covered by the warranty. Any further liabilities, especially for any consequential damages, are excluded.

Alecto®

Service → Help

CE !

V2.0