MOTOROLA

USER'S GUIDE
MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad

BABY MONITOR

USER'S GUIDE

The features described in this user's guide are subject to modifications without prior notice.

Welcome...
to your new Motorola Baby Monitor!

Thank you for purchasing the MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad. Now you can see and hear your baby sleeping in the other room or you can monitor your older children in their playroom.

Please retain your original dated sales receipt for your records. For warranty service of your Motorola product, you will need to provide a copy of your dated sales receipt to confirm warranty status. Registration is not required for warranty coverage.

For product related questions, please call:

> **US and Canada   1-888-331-3383**
>
> **On the Web: www.motorola.com**

This User's Guide provides you with all the information you need to get the most from your product.

Before you can use the baby monitor, we recommend you insert and fully charge the battery in the parent unit, so that it continues to work if you disconnect it from the mains power to carry it to another location. Please read the Safety Instructions on page 6 before you install the units.

Got everything?

- Parent unit
- Camera unit(s)
- Rechargeable Ni-MH battery pack
- Power adapter for the Parent unit
- Power adapter(s) for the Camera unit

In multi-camera packs, you will find one or more additional camera units with power adapter units.

Overview of your Parent unit
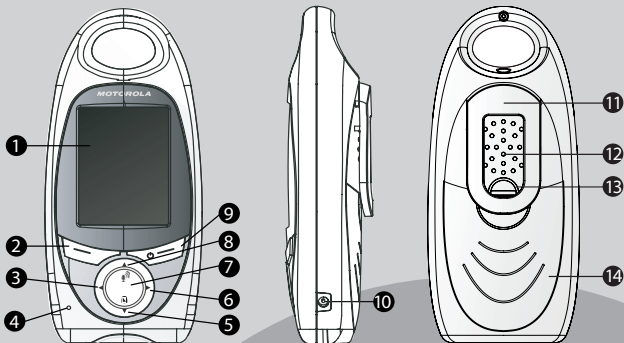
1. Display
2. Menu key (▥)
3. Left / Vol - key
4. Microphone
5. Down / Video On-Off key
6. Right / Vol + key
7. Sound level LED indicator

8. Up/Talk key
9. Power/Channel*/Enter key
10. Power adapter connector
11. Belt clip
12. Speaker
13. Battery cover screw
14. Battery cover

This function is only available for multi-pack version with more than one camera.

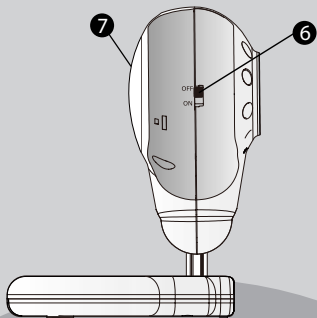### Parent unit menu icons

☀	Adjust brightness level of the LCD
☾	Turn the night vision on or off
📷	Pair Parent unit to a Camera
📷⊘	Un-register paired Camera
📷	Enter camera scan mode
♫	Select lullabies

Overview of your Camera unit
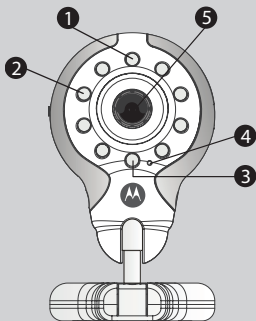
1. Power LED
2. Infrared LEDs
3. Light sensor
4. Microphone
5. Camera lens
6. On/Off switch
7. Speaker

Important guidelines for installing your Baby Monitor

- To use your video monitor camera and parent unit together, you must be able to establish a radio link between them, and the range will be affected by environmental conditions.
- Any large metal object, like a refrigerator, a mirror, a filing cabinet, metallic doors or reinforced concrete, between the camera and parent unit may block the radio signal.
- The signal strength may also be reduced by other solid structures, like walls, or by radio or electrical equipment, such as TV's, computers, cordless or mobile phones, fluorescent lights or dimmer switches.
- Use of other 2.4GHz products, such as wireless networks, Bluetooth® systems or microwave ovens may cause interference with this product, so keep the baby monitor away from these types of products, or turn them off if they appear to be causing interference.
- If the signal is poor, try moving the parent and/or the Camera unit to different positions in the rooms.

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1. Safety Instructions

⚠ **WARNING:**

STRANGULATION HAZARD - Keep the adapter cord out of baby's reach.
NEVER place camera or cords within the cot / crib.
Secure the cord some distance away from baby's reach.
Never use extension cords with AC Adapters. Only use the AC Adapters provided.

CAMERA SET UP & USE:

● Determine a location for the CAMERA that will provide the best view of your baby in his cot / crib.
● Place the CAMERA on a flat surface, such as a dresser, bureau, or shelf.
● NEVER place camera or cords within cot / crib.
● Secure the cord to the wall to keep cord away from the baby's reach.

WARNING
This baby monitor is compliant with all relevant standards regarding electromagnetic fields and is, when handled as described in the User's Guide, safe to use. Therefore, always read the instructions in this User's Guide carefully before using the device.
• Adult assembly is required. Keep small parts away from children when assembling.
• This product is not a toy. Do not allow children to play with it.
• This baby monitor is not a substitute for responsible adult supervision.
• Keep this user's guide for future reference.

- Do not place the camera unit or cables in the cot / crib or within reach of the baby (the unit should be at least 3 feet away).
- Keep the cords out of reach of children.
- Do not cover the baby monitor with a towel or blanket.
- Never use extension cords with power adapters. Only use the power adapters provided.
- Test this monitor and all its functions so that you are familiar with it prior to actual use.
- Do not use the baby monitor near water.
- Do not install the baby monitor near a heat source.
- Only use the chargers and power adapters provided. Do not use other chargers or power adapters as this may damage the device and battery pack.
- Only insert a battery pack of the same type.
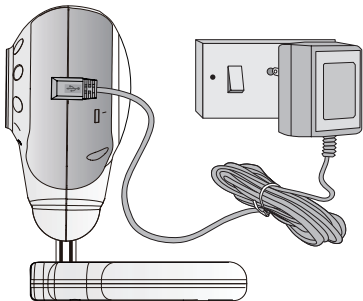- Do not touch the plug contacts with sharp or metal objects.

CAUTION
Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.

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2. Getting started

2.1   Camera unit power supply

1. Connect the small plug of the power adapter to the Camera unit
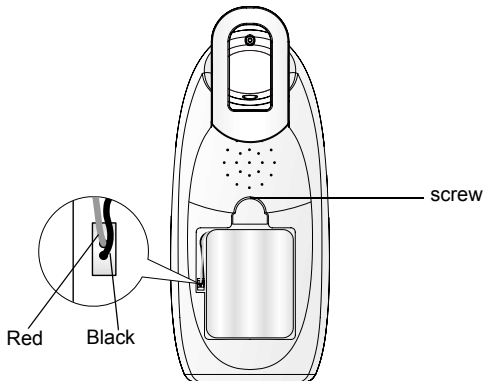and the other end to the mains socket (110V/60Hz).

NOTE

Only use the enclosed power adapter.

2. Switch the unit to ON and a green light will display.
3. Slide the switch to OFF to turn the Camera unit off.

2.2 Parent unit battery installation

screw

Red   Black

1. Turn the belt clip so that it is in the hanging position.
2. Loosen the screw in a counterclockwise direction using a small screwdriver. Remove the battery cover.
3. Insert the wire tab of the rechargeable battery pack into the contact slot as shown above and fit the battery pack into the compartment.
4. Close the battery compartment and tighten the screw in a clockwise direction.
5. Press ⌁ to turn ON the parent unit. In a few seconds the LCD screen will illuminate and the unit will be ready.
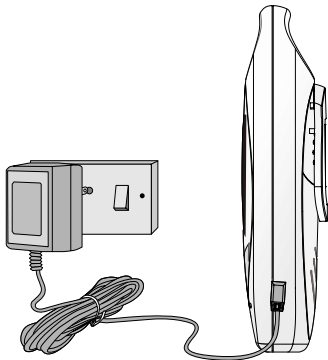6. Press and hold ⌁ to turn OFF the parent unit.

The battery icon 🔋 indicates that the battery pack is low and needs to be recharged. The battery pack takes about 16 hours to charge fully.

NOTE
When the main power is connected, the charge icon ⚡ *is displayed and the battery icon* 🔋 *also displays while the battery is charging.*

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2.3 Parent unit power supply

IMPORTANT
Installing the rechargeable battery pack and charging it fully before use is recommended. This will allow the unit to operate on battery in the event of a power failure.

1. Connect the small plug of the power adapter to the parent unit and the other end to the mains socket (110V/60Hz)

NOTE
Only use the enclosed power adapter.

2. The LCD screen illuminates and starts up automatically after a few seconds.
3. Press and hold ⌫ to turn OFF the parent unit.

NOTE
Once the camera and parent units are switched on, the display on the parent unit will show the video captured by the Camera unit.

If there is no connection or you are out of range, the video display will go off, the ▾ icon on the LCD display will flash and the parent unit will beep continuously. Move the parent unit closer to the Camera unit until the link is re-established.

2.4   Registration

The baby monitors are already pre-registered upon your purchase. You do not need to register one again unless a Camera unit loses its link with the parent unit, or you want to register an additional Camera unit.

Up to 4 Camera units can be registered to one parent unit. If you have more than one Camera unit, please check that you have selected the correct channel at the Parent unit for that Camera unit before you attempt to register it again.

To re-register your Camera unit, or register a new Camera unit, follow the procedure below:

1. Switch off the Camera unit and remove the small power plug from the Camera unit.
2. On the Parent unit, press ▤▤ to enter menu mode.
3. Press ▲ or ▼ until 📷 is selected on the LCD screen.
4. Press ◄ or ► to select the camera channel (📷 1/ 📷 2/ 📷 3/ 📷 4) that you want the Camera unit to pair with.
5. Press ✓ to start registration. \\\\\\\\ is displayed during the pairing process.
6. Switch on the Camera unit.

Wait 16 seconds for the parent unit to locate the Camera unit and pair it to the selected channel. A ✓ will be displayed on the LCD screen if the registration is successful.

If no Camera unit is found, a ✗ will be displayed on the LCD screen. Switch the Camera unit off and on and repeat the registration procedure.

2.5 De-registration

To remove the registration record of particular camera unit from the parent unit, follow the procedure below with the cameras are powered on and within operating range:

1. One the Parent unit, press ▤▤ to enter menu mode.
2. Press ▲ and ▼ until 🎥 is selected on the LCD screen.
3. Press ◄ or ► to select the camera to de-register.
4. Press and hold the ✔ key 2 seconds for de-registration confirmation.

3. Using the Camera Unit

3.1   Setting up

- Place the Camera unit in a convenient location (e.g. on a table) and point the camera lens towards the area you want to monitor.
- Adjust the Camera unit until you are satisfied with the image in the parent unit.
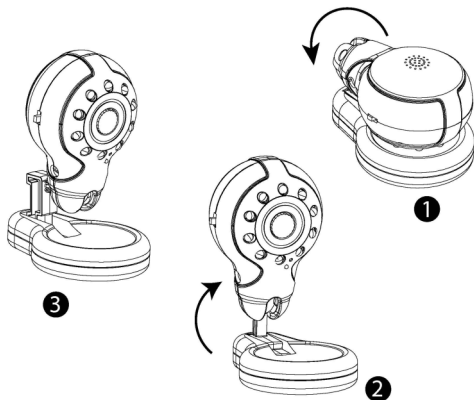
- To mount the Camera unit on the wall, see section "9. Wall mounting instructions" for more details.

NOTE
Do not place the Camera unit within baby's reach! If there is interference on the picture or sound, try moving the units to different locations, and ensure they are not close to other electrical equipment.

3.2 Selecting a camera channel or Enable Multi-video display (for multi-pack only)

The Parent unit has 4 camera channels (📷 1/ 📷 2/ 📷 3/ 📷 4) from which the video can be displayed and the audio heard. Each Camera unit is paired with a camera number 1, 2, 3 or 4 when it is registered to the parent unit, and the parent unit shows the number of the selected channel at the top right of the display. You will need additional Camera units registered to the parent unit if you wish to monitor different areas using this channel option. If a camera channel that is selected is out of range, the video display will be blank and an out of range beep will be played.

Note
Handset will skip camera channel that are not paired.

To switch between the channels and to enable multi-video mode, press ⟲.

3.3 Pairing camera channels

Any enclosed Camera unit has already been registered and no setup is required.
For additional units, you will need to pair them to new channels before you can use them. There are up to 4 camera channels (📷 1/ 📷 2/ 📷 3/ 📷 4) available for pairing. See section "2.4 Registration" for more details.

3.4 Night vision

The Camera unit has 9 high-intensity infrared LEDs for picking up clear images in the dark. When the built-in photo sensor detects a low level of ambient light, the LEDs will automatically activate and the screen on the parent unit will display in black and white.

3.5 Talk function

Press and hold ▲ on the parent unit to talk to your baby through the Camera unit loudspeaker. The symbol 🔊 will be displayed at the top of the LCD screen.

3.6   Adjusting the volume of the parent unit

When the video is playing or in standby mode, press ◄ to decrease volume or ► to increase volume. The display will show the current volume setting for 5 seconds.

NOTE
The parent unit also provides a visual indication of the sound level detected at the Camera unit, regardless of the volume setting.

3.7   Video On/Off Function

Push 🔲 to switch on or off the display.

3.8   Camera Scan Mode

Display will change every 15s between different registered camera channel. To enter camera scan mode, select 🔂 icon in menu.

3.9   Play lullaby

To select lullaby to be played in camer units, press 🎵. There are 3 lullabies (🎵 / 🎵 / 🎵) avaible for selection. Select 🎵 to repeat all 3 lullabies.

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4. MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad Parent Unit Menu Options

4.1 Brightness

This option lets you change the brightness of the LCD.

1. Press ▇▇ to enter menu mode.
2. Press ▲ or ▼ until 🔅 is selected on the LCD screen.
3. Press ◄ or ► to adjust the LCD brightness level.
   The LCD brightness will be adjusted accordingly.

4.2 Night Vision

When activated, this function automatically switches the camera to night vision when the brightness level of the room where the camera is placed is not strong enough.

1. Press ▇▇ to enter menu mode.
2. Press ▲ or ▼ until 🌙 is selected on the LCD screen.
3. Press ◄ or ► to turn the Camera unit Night Vision On or Off.
   The infrared night vision capability on the Camera unit will be switched on and off accordingly.

5. Disposal of the device (environment)

At the end of the product lifecycle, you should not dispose of this product with normal household waste. Take this product to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's guide and/or box indicates this.

Some of the product materials can be re-used if you take them to a recycling point. By reusing some parts or raw materials from used products you make an important contribution to the protection of the environment.

Please contact your local authorities in case you need more information on the collection points in your area.

Dispose of the battery pack in an environmentally-friendly manner according to your local regulations.

6. Cleaning

Clean the MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad with a slightly damp cloth or with an anti-static cloth. Never use cleaning agents or abrasive solvents.

Cleaning and care

- Do not clean any part of the product with thinners or other solvents and chemicals — this may cause permanent damage to the product which is not covered by the warranty.
- Keep your MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad away from hot, humid areas or strong sunlight, and don't let it get wet.
- Every effort has been made to ensure high standards of reliability for your MBP31, MBP31 Twin, MBP31 Triple, MBP31 Quad. However, if something does go wrong, please do not try to repair it yourself — contact Customer Service for assistance.

7. Help

Display

No display
- Try recharging or replacing the battery pack.
- Reset the units. Disconnect the battery pack of the parent unit and unplug both the units' electrical power, then plug them back in.
- Is the unit turned on?
  Press and release ⊂⊛⊃ on the parent unit to turn it on.
- Is the correct camera channel number selected?
  Change the camera channel number, if necessary.

Registration

If the Camera unit has lost its link with the parent unit
- Try recharging or replacing the battery pack.
- If the Camera unit is too far away it may be going out of range, so move the Camera unit closer to the parent unit.
- Reset both units by unplugging their batteries and mains electrical power. Wait for 15 seconds before reconnecting them. Allow up to one minute for the Camera unit and the parent unit to synchronise.
- See section "2.4 Registration" if there is a need to re-register the units.

Interference

Noise interference on your parent unit
- Your camera and parent units may be too close. Move them further away from each other.
- Make sure there is at least 1 metre between the 2 units to avoid audio feedback.
- If the Camera unit is too far away it may be going out of range, so move the Camera unit closer to the parent unit.
- Make sure the camera and parent units are not near other electrical equipment, such as a television, computer or cordless/mobile telephone.

8. General Information

If your product is not working properly....
1. Read this User's Guide or the Quick Start Guide.

2. Visit our website:
www.motorola.com

3. Contact Customer Service at:
US and Canada 1-888-331-3383

To order a replacement battery pack, contact customer service or visit our website.

Consumer Products and Accessories Limited Warranty ("Warranty")

Thank you for purchasing this Motorola branded product manufactured under license by Binatone Electronics International LTD ("BINATONE").

What Does this Warranty Cover?

Subject to the exclusions contained below, BINATONE warrants that this Motorola branded product ("Product") or certified accessory ("Accessory") sold for use with this product that it manufactured to be free from defects in materials and workmanship under normal consumer usage for the period outlined below. This Warranty is your exclusive warranty and is not transferable.

Who is covered?

This Warranty extends only to the first consumer purchaser, and is not transferable.

What will BINATONE do?

BINATONE or its authorized distributor at its option and within a commercially reasonable time, will at no charge repair or replace any Products or Accessories that does not conform to this Warranty. We may use functionally equivalent reconditioned/ refurbished/ pre-owned or new Products, Accessories or parts.

What Other Limitations Are There?

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR OR REPLACEMENT PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO EVENT SHALL MOTOROLA OR BINATONE BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights that vary from one jurisdiction to another.

ENGLISH

Products Covered	Length of Coverage
Consumer Products	**One (1) year** from the date of the products original purchase by the first consumer purchaser of the product.
Consumer Accessories	**Ninety (90) days** from the date of the accessories original purchase by the first consumer purchaser of the product.
Consumer Products and Accessories that are Repaired or Replaced	**The balance of the original warranty or for Ninety (90) days** from the date returned to the consumer, whichever is longer.

Exclusions

Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this Warranty.

Abuse & Misuse. Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of MOTOROLA or BINATONE, are excluded from coverage.

Use of Non-Motorola branded Products and Accessories. Defects or damage that result from the use of Non-Motorola branded or certified Products or Accessories or other peripheral equipment are excluded from coverage.

Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than MOTOROLA, BINATONE or its authorized service centers, are excluded from coverage.

Altered Products. Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are excluded from coverage.

Communication Services. Defects, damages, or the failure of Products or Accessories due to any communication service or signal you may subscribe to or use with the Products or Accessories is excluded from coverage.

How to Obtain Warranty Service or Other Information?
To obtain service or information, please call:

US and Canada 1-888-331-3383

You will receive instructions on how to ship the Products or Accessories at your expense and risk, to a BINATONE Authorized Repair Center.

To obtain service, you must include: (a) the Product or Accessory; (b) the original proof of purchase (receipt) which includes the date, place and seller of the Product; (c) if a warranty card was included in your box, a completed warranty card showing the serial number of the Product; (d) a written description of the problem; and, most importantly; (e) your address and telephone number.

These terms and conditions constitute the complete warranty agreement between you and BINATONE regarding the Products or Accessories purchased by you, and supersede any prior agreement or representations, including representations made in any literature publications or promotional materials issued by BINATONE or

representations made by any agent employee or staff of BINATONE, that may have been made in connection with the said purchase.

FCC and IC regulations
FCC Part I5

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended 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 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.

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

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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, and (2) this device must accept any interference received, including interference that may cause undesired operation. Privacy of communications may not be ensured when using this equipment.

To ensure safety of users, the FCC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product. This product has been tested and found to comply with the FCC criteria. The Parent and Baby unit shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

This Class B digital apparatus complies with Canadian ICES-003.

WARNING

Changes or modifications, to this equipment not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada

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.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Industry Canada technical specifications.

This device complies with Industry Canada licence-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.

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Technical Specifications

Camera unit

Frequency	2.4GHz to 2.4835GHz
Image sensor	Colour CMOS
Lens	f 2.5mm, F 2.8
IR LED	9 pcs
Power	Adaptor:
	By Keenocean; Type: S04-003-0050-00600;
	Input: 100-240VAC, 50/60Hz
	Output: 5V, 600mA
	or
	Adaptor:
	By Ten Pao Industrial Co., Ltd.
	Type:
	S004LB0500060 (for UK)
	S004LV0500060 (for EU)
	S004LU0500060 (for US)
	Input: 100-240VAC, 50/60Hz
	Output: 5VDC, 600mA

Parent unit

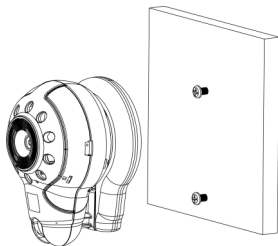|	
Frequency	2.4GHz to 2.4835GHz
Display	2.4" TFT LCD
Display colours	16.7M colour LCD
Brightness control	5 steps
Power	Adaptor: By Keenocean; Type: S04-003-0050-00600; Input: 100-240VAC, 50/60Hz Output: 5V, 600mA or Adaptor: By Ten Pao Industrial Co., Ltd. Type: S004LB0500060 (for UK) S004LV0500060 (for EU) S004LU0500060 (for US) Input: 100-240VAC, 50/60Hz Output: 5VDC, 600mA Battery: By Desay; Type: Ni-MH AAA 850mAh 3.6V *Warning* *Do not use non-rechargeable batteries for the Parent Unit. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.* *a. Using only the AD/DC power supply adaptor provided by the manufacturer or its authorized agent:* *b. "CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type" in the parent unit specification.*

9. Wall mounting instructions

1. Use the template below to mark the wall in the correct places to drill holes for wall-mounting screws (not supplied).

⊕ 4mm
headscrew
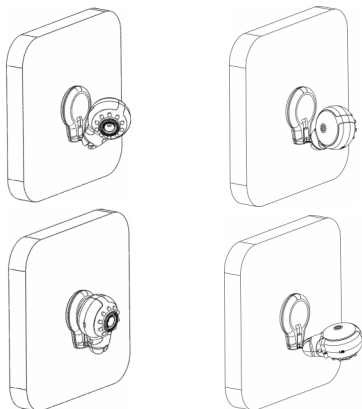
60.00mm
(Tolerence ± 1.0mm)

⊕ 4mm
headscrew
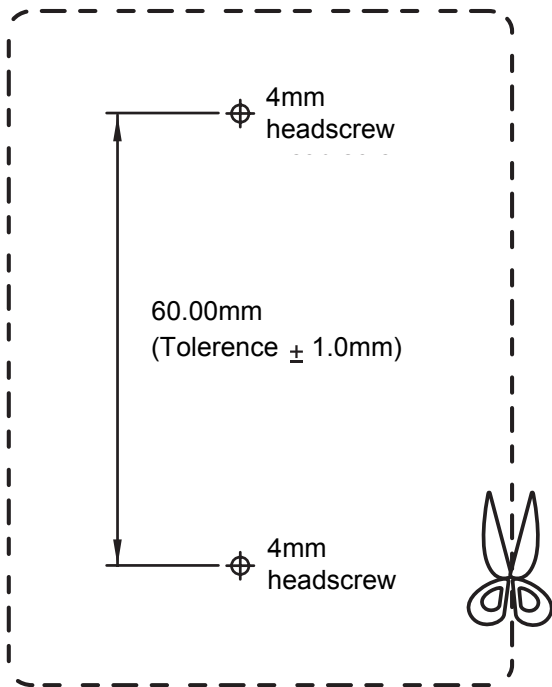
2. Insert 4mm head screws (not supplied) into the holes and tighten the screws. Then, align your Camera unit with the screws and push it down.

3. Point the camera lens towards the area you want to monitor. Adjust the Camera unit until you are satisfied with the image in the parent unit.

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Version 1.0

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