INSTRUCTION MANUAL



and checked under the strictest possible quality control to ensure that each monitor leaves problem, please contact your dealer, our branch or service center. the factory in perfect condition. In the unlikely event you find any defects or have any Thank you for purchasing our VBC-23 video monitor. Your unit has been manufactured

from the unit. Please read this manual carefully to obtain maximum performance & extended service life

Features

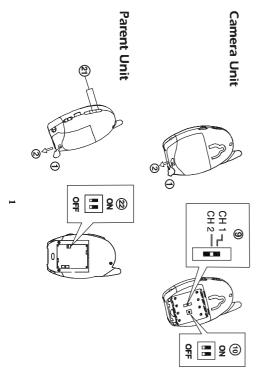
- Long communication range of 1000 ft in open space
- 2 channels + 4 digital codes (total B sub-channels) provide high degree of immunity from interference
- Automatic night vision
- Camera can be set permanently ON or VOX (voice activated)
- Camera can be crib mount or stand alone
- Acjustable microphone sensitivity
- 2" colour TFT digital screen ensure clear and sharp picture
- Scanning function to monitor 2 camera units
- LED level meter for audio Automatic picture cut off when video is out-of-range to save battery power
- In-corporate intelligent rapid charging circuit in parent unit to charge up battery
- Out-of-range alarm once audio signal falls out of communication range
- AV output allows connection to TV for larger image
- Battery or AC adapter operated

WARNING

those considered to be at risk should be under the supervision of your doctor or health The VBC-23 video monitor should not be regarded as a medical device. Premarure babies or

recommended in addition to using the VBC-23. Direct supervision of your baby at a regular interval by a responsible adult is strongly personnel.

SETTING OF CHANNELS AND DIGITAL CODES



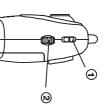
Press down the lock button and slide open the battery cover in direction as shown. With	(B) Parent Unit
Similarly, select one of the four settings of the white colour dip switches \textcircled{M} & \textcircled{W} . This will set the digital code which purpose is to eliminate interference signal from other electrical devices.	
Code Settings	
1 2 1 2 1 2	1. Operation from rechargeable batteries
Make sure the settings are exactly the same in both camera and parent unit. N.B. In case you still encounter interference in actual operation, either change to another channel or change the settings of the digital code dip switch to a new combination.	Press down the lock button, slide open the battery cover in the direction as shown. Insert the supplied three pieces AA size rechargeable Ni-mH batteries into the compartment. Observe correct polarities indication. Install back the battery cover.
	To AC Mains
(A) Camera Unit	
1.Operation from batteries	2. Operation using switching power supply
Press down the lock button and slide open the battery cover in direction as shown. Insert four pieces AA size (UM-3) alkaline batteries into the compartment. Observe correct	The parent unit can be operated on AC mains using the supplied 6V 2A switching
polarities indication. Install back the battery cover. N.B. For best performance, do not mix use old and new batteries or alkaline and rechargeable batteries. \cap	power supply. Connect the output plug of the power supply to DC jack @ of parent unit, make sure the polarity is correct. With the rechargeable batteries installed and unit being switched off, the charge indicator
	battery is under fast charging. Once the battery is fully charged up, the charge indicator goes off. Now the parent unit can be switched on for operation. Either you disconnect
To AC Mains	the switching power supply or keep connecting will cause no damage to the battery. In the latter case, the battery power will not be consumed and the unit operates from power supplied from the switching power supply.
2.Operation using AC adapter	N.B. Before using the parent unit for the first time, charge up the supplied Ni-mH batteries using the switching power supply for at least 5 hours. Besure to switch off the unit before charaing.
Connect the output plug of the adapter to DC jack $\textcircled{0}$ of camera unit, make sure the polarity is correct. The power supply from the battery will be cut off once the adapter's output plug is inserted into the DC jack $\textcircled{0}$.	CAUTION :BESURE THE BATTERY IN THE PARENT UNIT IS RECHARGEABLE TYPE BEFORE YOU CONNECT TO THE SWITCHING POWER SUPPLY, OTHERWISE EXPLOSION MAY RESULT.
The communication range is longest when the transmitter is operated on AC mains.	

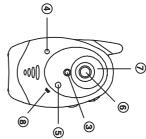
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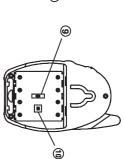
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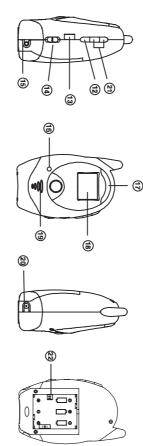
CONTROLS LAYOUT

Camera Unit









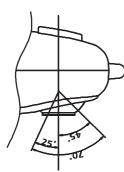
Parent Unit

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11.DC jack	10. Digital code dip switch	9. Channel selector	8. Microphone	7. Night vision IR LEDs	6. Lens	5. Light sensor	4. Transmit indicator	3. Power ON indicator	2. Microphone sensitivity knob	①. Power ON/OFF and VOX switch
2 Digital code dip switch	2). Channel selector	🕲 . DC jack	(19. Speaker	(1). Digital TFT screen	🕜 LED level meter for audio	(). Power /Charge indicator	(1).AV output jack	(). Manual ON/OFF/VOX switch for screen	(1). Volume control with ON/OFF switch	12. Scan button

OPERATION

- 1. Place the camera unit about one meter away from the crib with the lens [®] and microphone [®] facing towards the baby.
- 2. The camera unit can also be crib mounted using the supplied mounting fixture. Please refer to CRIB MOUNT section.
- 3.Switch on the unit with the power ON/OFF switch ^① set to ON position. The power ON indicator ^③ will light up green. In case the batteries have run down, the indicator ^③ will start flashing. Replace with new batteries or use the supplied 9V AC adapter as power supply.
- 4. Now switch on the parent unit using the volume control[®]. In case the unit is powered by batteries, the power/charge indicator[®] should light up green. If it starts flashing green and sounds an alarm, the batteries have run down and need to be recharged using the supplied 6V switching power supply.
- 5. The images captured by the lens (() should be shown on the screen (() while the sound pick up by microphone (() should be heard from speaker (()). Acjust the volume control (()) to obtain a comfortable listening level.
- Besure to keep at least 3m apart between the camera and parent unit or otherwise a screeching sound will be heard at the speaker due feedback problem.
- 6. Acjust the microphone sensitivity knob [®] such that the microphone [®] can be activated by a sound at your desirable loudness level. Hi sensitivity means the microphone [®] is more easy to be activated by small sound. The transmit indicator [®] will light up red whenever audio signal is transmitted.
- 7. The lens can be tilted vertically within an angle of 70 \degree to better capture the view of baby.



Un

- 8. Whenever an audio signal is received, the LED level meter ⁽ⁱ⁾ will light up. The louden the baby's voice, the more number of LED will light up. This feature is useful in case the parents prefer to turn down the speaker volume to keep the environment quiet while still able to monitor the activity of baby.
- 9. Within the operating range of the video signal, a colourful picture is shown on the screen (). However, as the distance between the camera and parent unit increases, the picture may become black / white and flickering. Further increase in distance will deteriorate the picture quality making it illegible until a point where the parent unit automatically switches off the () screen to save battery power.
- 10. Once the parent unit falls back within the operating range of video signal, the screen switches on automatically (subjected to switch is set to ON or VOX) and a colourful picture will be displayed.
- 11. The Out-of-range alert function will provide an audible alarm whenever the parent unit is outside communication range of the camera unit. This means the parents now totally lose contact with the baby, both video and audio signal. Once the parent unit falls back within the communication range, the audible alarm stops automatically.
- 12. To minimize the radiation level from the camera unit, the power switch [®] can be set to VOX position. This means video and audio signal are only transmitted whenever the baby makes a sound. Under this mode, the battery life can be prolonged.
- 13. During night time, to monitor the baby sleeping, it is common the set the power switch
 ^① to ON position. This means the video signal will transmit continuously, no matter the baby is making sound or not.
- 14. The camera unit is equipped with automatic night vision function. Whenever the light sensor (a) detects a low light intensity in baby's room, it will automatically switch on the IR (Infrared) LEDs (a) as a source of illumination. The lens (a) capture the IR images of the baby and transmit to the parent unit which is displayed as a black/white picture on screen (a).
- 15. By using switch ⁽¹⁾, the screen ⁽¹⁾ can be switched ON / OFF / or VOX manually. This is particularly useful whenever the camera unit is set to transmit video signal continuously (power ⁽¹⁾ switch set to ON position). The parents can select if they prefer to watch the picture on screen ⁽³⁾ or not. The battery life can be much prolonged when the screen ⁽³⁾ is switched OFF.

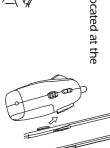
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						hФ
	VOX	N	OFF	VOX	Q	Switch
	Show baby's image whenever detect sound	Show baby's image whenever detect sound	Always OFF	Show baby's image whenever detect sound	Always ON	Switch \textcircled{O} Switch \textcircled{O} Screen Condition (within operating range of video signal)

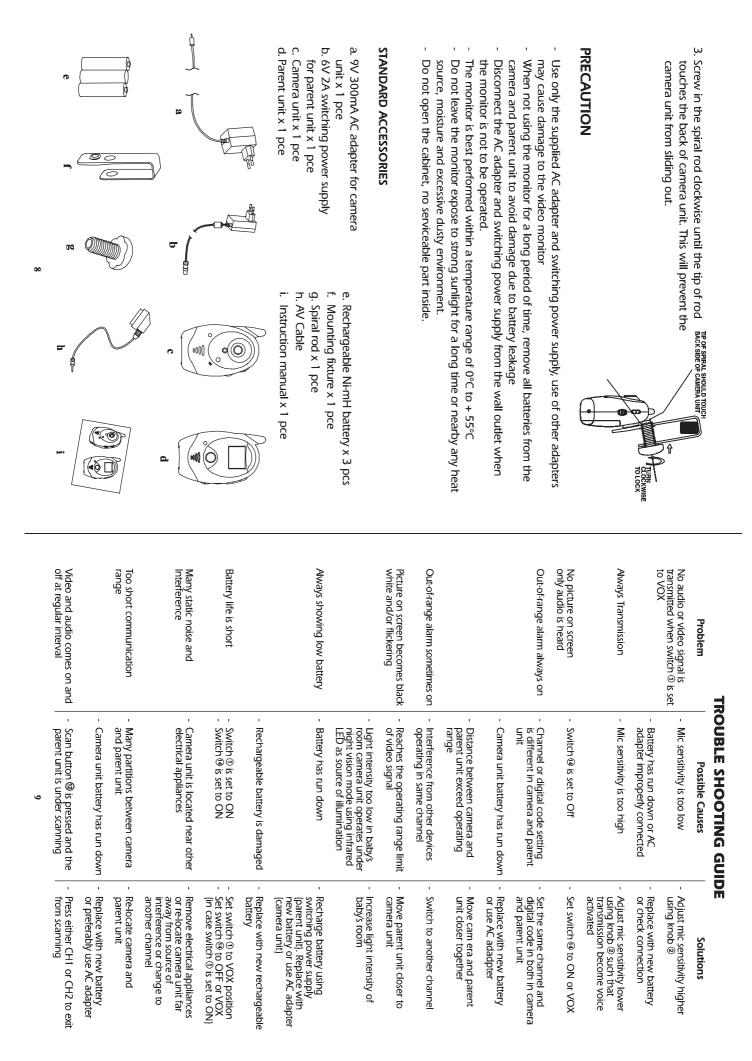
- 16. The scanning feature allows the parent unit to monitor activities at two different locations. Set two camera units (the additional camera unit is available optionally) at different operating channels but besure the digital codes are both set to be same as parent unit. Once the scan button ⁽²⁾ is pressed, the parent unit will sequentially scan signal from the two cameras. The corresponding video image is shown on screen ⁽³⁾ and audio is heard in speaker ⁽³⁾ for a duration of 8 seconds. Any press of the channel selector ⁽³⁾ (either CH1 or CH2) will stop scanning and the parent unit stays operating on that particular channel.
- 17. With the parent unit being switched on, once the supplied 6V switching power supply is connected to DC jack ^(a), the power/charge indicator ^(a) will act as charge indicator. The indicator ^(b) first flashes red and green alternately while it is detecting the battery status, the it flashes red only, showing **To TV AV Input**
- the battery is under fast charging. When the battery is fully charged up, the indicator [®] turns steady green.
- 18. Using the supplied AV cable, the video and audio signal can be output to a TV to get a larger picture. Connect the cable as per diagram below and tune the TV to display AV input.

CRIB MOUNT

Using the supplied mounting fixture, the camera unit can be mounted on handrail of baby cot.

- Insert protruding stud on fixture into the catch located at the back of camera unit.
- 2. Mount the fixture over the handrail of baby cot.





FCC Notice To Users

Techwall is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

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.