

brennenstuhl

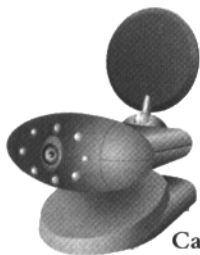
Video Control System NB240

User's Manual

CE 0123 ⓘ

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Camera



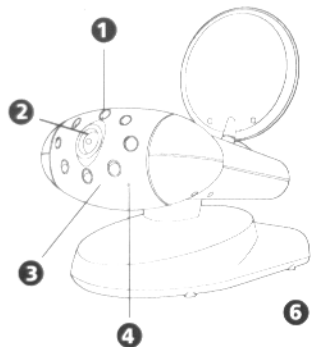
Monitor

- One Camera
- One Monitor
- Two Power Adapters
- One Quick Installation Guide
- This User's Manual

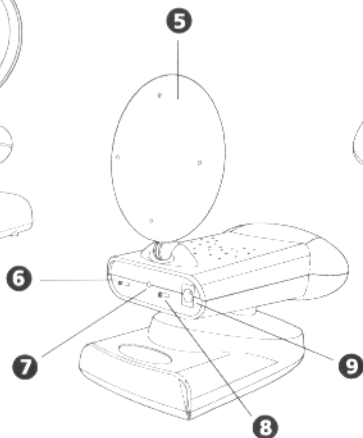
Note: The AC adapters CANNOT be interchanged. Use only the adapter labeled OUTPUT: 9V DC with the camera. Use only the adapter labeled OUTPUT: 13.5V DC with the monitor

Product Layout

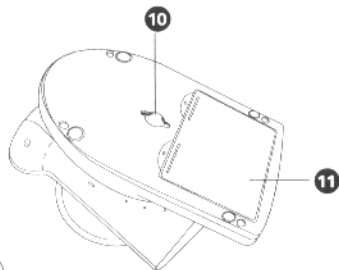
Front View of
Camera



Rear View of
Camera



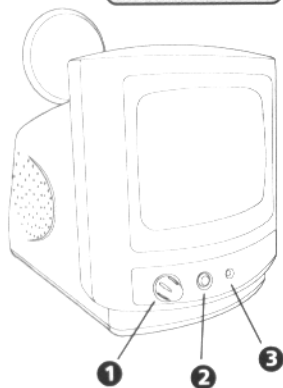
Bottom View of
Camera



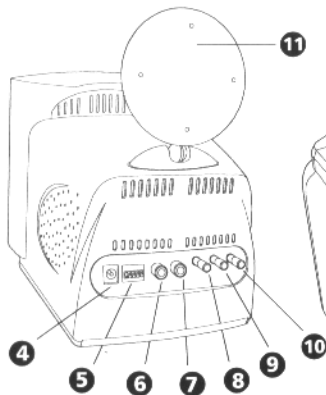
- 1 Infrared LEDs**
Eight LEDs to provide infrared light for night vision.
- 2 Lens**
Focuses image automatically without any adjustment.
- 3 Lens Body**
Rotates up to 180 degrees.
- 4 Microphone**
- 5 2.4 GHz Audio/Video Antenna (Front)**
Transmits audio/video signals. *Caution: Antenna does not rotate freely through 360 degrees. (See "Orienting Units for Optimal Performance", on page 12*
- 6 Channel Selection Switch**
Select the channel by sliding the slide switch to the channel number you want.
Must select the same channel on both the camera and monitor.
- 7 Power Indicator LED**
- 8 OFF/ON/NIGHT**
POWER ON/POWER OFF and NIGHT VISION ON switch.
- 9 9V Power Adapter Plug**
- 10 Mounting Hole**
- 11 Battery Compartment**

Product Layout

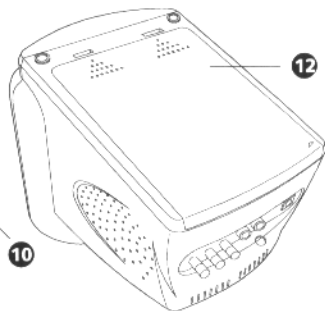
Front View of Monitor



Rear View of Monitor



Bottom View of Monitor



1 Volume/Power Control

2 Screen ON/OFF

Screen can be turned off for audio monitoring only.

3 Power Indicator LED

4 13.5V Power Adapter Plug

5 Channel Selection Dipswitches

Select the channel by setting the channel dipswitch to the ON position. The number 5 dipswitch sets the timer for the auto-sequence function (see "Auto-Sequence Function for Multiple Location Monitoring", on page 13).

Must select the same channel both on monitor and receiver.

6 Audio Output Jack (White)

7 Video Output Jack (Yellow)

8 V-HOLD

9 BRIGHTNESS

10 CONTRAST

11 2.4 GHz Audio/Video Antenna (Front)

Receives Audio/Video signals.

Caution: Antenna does not rotate freely through 360 degrees. (See "Orienting Units for Optimal Performance", on page 12)

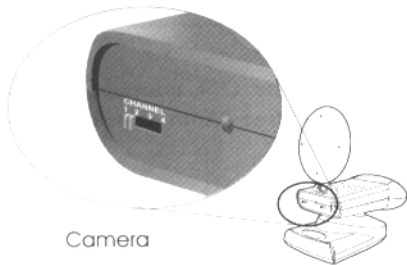
12 Battery Compartment

Setting Up

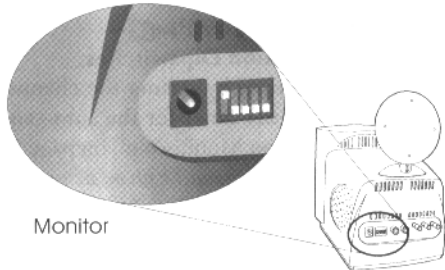


Before you make the connection:

- Always make sure the unit ON/OFF switch is in the OFF position.
- Set the channel switches on the back of the camera and monitor to the same channel.



Camera



Monitor

- If you wish to wall mount the camera, it is recommended that the receiver reception be tested before fixing in place. Have one person hold the camera against the wall in the selected mounting area while another checks reception on the monitor. If interference or other problems are present, refer to the Troubleshooting section on page 15 of this manual. You may need to select a different location in the room for mounting the camera.

Setting Up-Camera

1

Power Supply

The camera uses either batteries (AA-size) or household AC current.

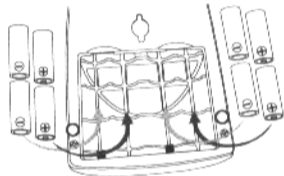
To Load Batteries

- 1 Open the battery compartment cover.
- 2 Insert batteries so their plus (+) and minus (-) ends are facing as shown in the illustration.
- 3 Close the battery compartment cover. Make sure the battery compartment cover is locked securely.



Never mix old batteries with new ones.

Remove batteries from the camera if you do not plan to use it for a period of time.



Using AC Power

Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the camera. **Note:** Use the adapter labeled OUTPUT: 9V DC.

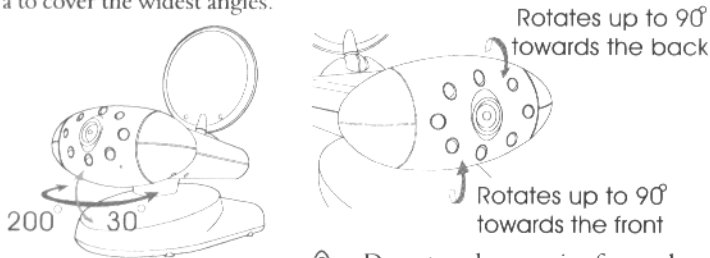
Slide the POWER Switch to the ON position. The LED on the back of the camera should light.

Setting Up-Camera

2 Changing the Lens Orientation

Place the camera in a convenient location, point the lens towards the observation area and adjust the angle by rotating the lens body. The camera's auto focus feature automatically focuses the image.

The camera's head rotates horizontally up to 200 degrees and vertically up to 30 degrees. The lens is built into a lens body that is designed to rotate vertically up to 180 degrees, allowing the camera to cover the widest angles.



3 Fine Tuning

Adjust the antenna so that the front (curved side) faces the room where the monitor is to be set up. See "Orienting Units for Optimal Performance", on page 12.



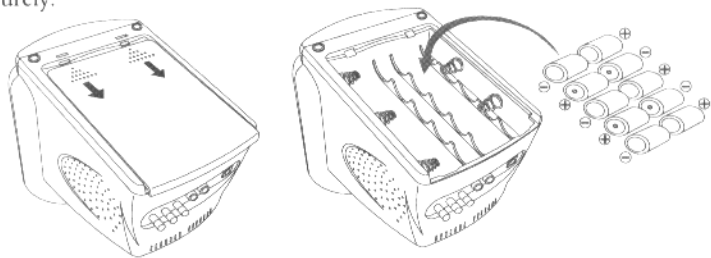
Do not apply excessive force when rotating. Doing so can cause serious damage to the camera.

1 Power Supply

The monitor uses either batteries (C-size) or household AC current.

To Load Batteries

- 1 Open the battery compartment cover in the direction of the arrow.
- 2 Insert batteries so their plus (+) and minus (-) ends are facing as shown in the illustration.
- 3 Close the battery compartment cover. Make sure the battery compartment cover is locked securely.



Never mix old batteries with new ones.

Remove batteries from the camera if you do not plan to use it for a period of time.

Setting Up-Monitor

Using AC Power

Plug one end of the provided power adapter into a wall outlet and the other end into the rear of the monitor. **Note:** Use the adapter labeled OUTPUT: 13.5V DC.

Turn on the monitor. The LED on the front of the monitor should light.

2

Fine Tuning

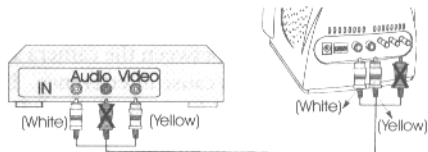
- 1 Adjust the video image using the V-HOLD, CONTRAST and BRIGHTNESS adjustment knobs on the back of the monitor, as needed.
- 2 Place the monitor in a convenient location, then adjust its antenna so that the front (curved face) faces the room where the camera is set up. See "Orienting Units for Optimal Performance", on page 12.

Setting Up-Other Applications

Recording on a VCR

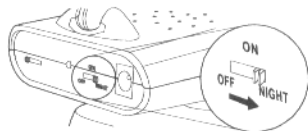
The monitor comes with Audio/Video output jacks for connecting to a VCR for recording.

Connect the audio/video cable's white and yellow plugs to the white and yellow audio/video jacks of the monitor and to the white and yellow input jacks of the VCR, matching the plug colors with the jacks on both the monitor and VCR.



Night Vision

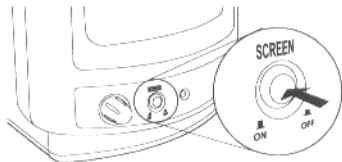
The camera has eight high-intensity LEDs for picking up clear images in unlit locations. To turn on the night vision function, slide the switch as shown in the illustration on the right.



Note: Turning the night vision function off when not required will save power.

Audio Only

Screen can be turned off for audio monitoring only. To turn off screen, push the button on the front panel as shown in the illustration on the right.



Orienting Units for Optimal Performance

Placing:

Place the camera and monitor on a flat, stable surface to prevent damage from falling.

For optimal performance, try to place the units as high as possible to avoid any possible interference from people walking between the camera and monitor.

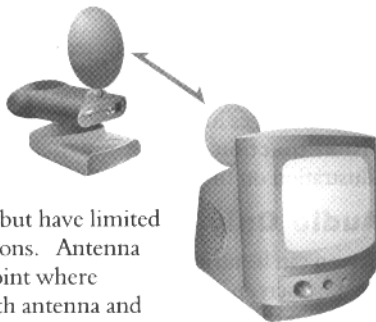
Microwave ovens can cause interference. Be sure you do not position the camera and monitor with a microwave in the path between them.

Adjusting the Audio/Video Antennas

For optimal reception, the antennas on both camera and monitor should be oriented. In most situations the curved face of the audio/video antennas on both the camera and monitor should be facing each other. If the camera and monitor are less than 10 feet (3 meters) apart, keep the audio/video antennas flat in their casings.

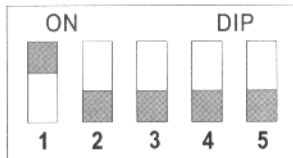


The audio/video antennas have been designed to pivot but have limited rotation in either clockwise or counterclockwise directions. Antenna does not rotate freely 360 degrees. Rotating past the point where resistance is felt will result in permanent damage to both antenna and mechanical stopper.



Auto-Sequence Function for Multiple Location Monitoring

The monitor's built in auto-sequence function is ideal for security use. The monitor can be used with up to four cameras on four different channels and display them in sequence on a single monitor. The monitor's various operating modes are set via dipswitches as shown in the following diagram:



Factory-Preset Mode

Dipswitches 1 ~ 4: Set up the automatic channel sequence function

Slide the channel dipswitch that you wish to view to the ON position.

Dipswitch 5: Sets the sequence change interval time

ON: Changes channel every eight seconds.

OFF: Changes channel every four seconds.

Auto-Sequence Function for Multiple Location Monitoring

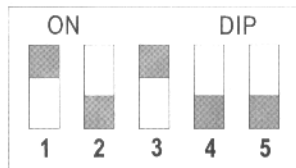
Note 1: The monitor will auto detect the receiving channels, and display them in sequence. When only one channel dip switch is in the ON position, the monitor will receive the channel continuously, without regard to the position of the 5th dip switch. If more than one dip switch remains on, the auto-sequence function will continue on those channels.

Note 2: When none of the dip switches are in the ON position, the monitor will automatically set the receiving channel to Channel 1.

Example:

Using the auto-sequence function:

If you have two wireless camera and their channels are set on CHANNEL 1 and CHANNEL 3, and you wish to monitor the two channels in sequence, you must slide up the first and third dip switches to the ON position (see the diagram on the right). If you wish these two channels to be alternated at eight-second intervals, slide the DIP 5 switch to the ON position. Leave it in the lower position for four-second channel change intervals.



Stopping the auto-sequence function:

To stop the auto-sequence function and lock on one channel, leave the dip switch for the channel you want to receive in the ON position. Slide the others to the lower position.

If you are not getting any signal at all

- Check the power on the camera and monitor
- Make sure power plugs are pushed all the way in
- Check the CHANNEL switches on both camera and monitor are set to the same number
- If the camera/monitor is powered by batteries, replace all batteries with new ones
- If you can receive sound, but don't have images, or the images are poor, check the SCREEN ON/OFF button on the front panel, or adjust the V-HOLD/ CONTRAST/BRIGHTNESS knob on the rear of the monitor

If the signal is poor, or there is interference

- Adjust antenna orientation
- Change the channel settings on both camera and monitor and make them the same
- If there is a microwave oven in use in the path between the camera and monitor, remove the microwave oven or turn it off
- Make sure the camera and monitor are within range (up to 300 feet)
- Check the channel dipswitch positions on the monitor.

Care and Maintenance

- For best performance, don't touch the antennas unnecessarily
- Keep all its parts and accessories out of young children's reach
- Camera performances can be adversely affected by fingerprints or dirt on the lens surface. Avoid touching the lens surface with your fingers.
- Should the lens become dirty, use a blower to blow off dirt and dust, or a soft, dry cloth to wipe off the lens.
- Keep dry. Precipitation, humidity, and liquids, contain minerals that will corrode electronic circuits
- Do not use or store in dusty, dirty areas. Moving parts may be damaged
- Do not store in hot areas. High temperatures can shorten the life of electronic devices and warp or melt certain plastics
- Do not store in very cold areas. When the Wireless Security System warms up (to its normal temperature), moisture can form inside the case, which may damage electronic circuit boards
- Do not attempt to open the case. Non-expert handling of the device may damage it
- Do not drop , knock, or shake it. Rough handling can break internal circuit boards
- Do not use harsh chemicals, cleaning solvents, or strong detergents when cleaning. Wipe with a soft cloth slightly dampened in a mild soap-and-water solution
- If the Wireless Security System is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service
- Operate this product using only the power supply included with it or provided as an accessory
- Do not overload electrical outlets or extension cords as this can result in fire or electric shock

Camera

Frequency	2.4~2.4835GHz
Range	300 feet (100 meters) clear line of sight
Antennas	Directional circular-polarized antenna
Channel	4 selectable channels
AV mod/demod. method	FM
Image Sensor	1/4" CMOS image sensor
Lens	f3.6mm, F2.0
Dimension	10 x 9 x 15 cm (3.9 x 3.5 x 5.9 in)
Weight	300g (10.6 ounces) without batteries
Operating temperature	10°C~50°C (14°F~122°F)

Monitor

Frequency	2.4~2.4835GHz
Range	300 feet (100 meters) clear line of sight
Antennas	Directional circular-polarized antenna
Channel	4 selectable channels
AV mod/demod. method	FM
Sound Max. Output	800mW
Screen Size	5.5in
Dimension	15 x 19 x 17 cm (5.9 x 7.5 x 6.7 in)
Weight	1400g (49.4 ounces) without batteries
Operating temperature	10°C~50°C (14°F~122°F)

Specifications are subject to change without notice.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. 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 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

FCC Label Compliance Statement:

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.

Declaration of Conformity

Hereby, TRANWO TECHNOLOGY CORP., declares that this TTA-30T/TTA-50R is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.