

# Navigator<sup>®</sup>

## User's Manual

**Model No.: CCD-420**

### **WIRELESS 2.5" COLOR TFT LCD MONITORING SYSTEM**

- Portable 2.5" Color TFT LCD with Receiver
- Wireless Color Camera



#### **PLEASE READ CAREFULLY AND SAVE**

This manual contains important information about this product's operation.

If you are installing this product for use by others you must leave this manual -or a copy- with the end user.



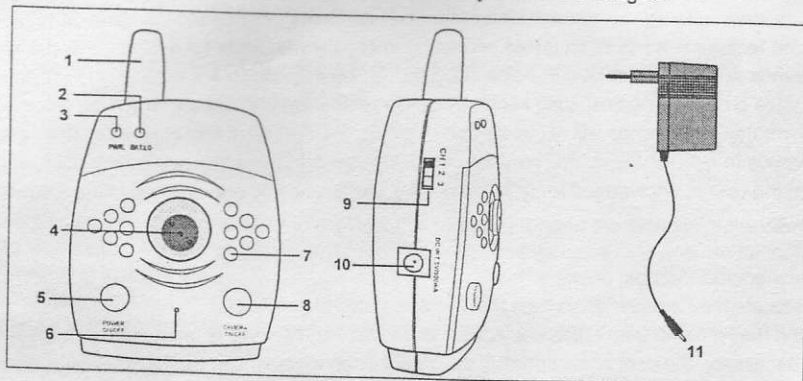


# Installing the Camera



## ATTENTION!

Prior to drilling and inserting the screws, make sure that there are no electric cables pipes, etc. in the wall that may become damaged.



1 Antenna

2 Low battery indicator

3 Power indicator

4 Eye ball camera lens

5 Power ON/OFF switch

6 Microphone

7 IR LED

8 Camera ON/OFF switch  
(camera Kit/baby monitor)

9 Channel switch

10 DC Power

11 Power adaptor plug with low voltage switch

## Installing and Connecting the Devices

Select a suitable installation site from which you want to monitor the desired object. A suitable installation site has the following features:

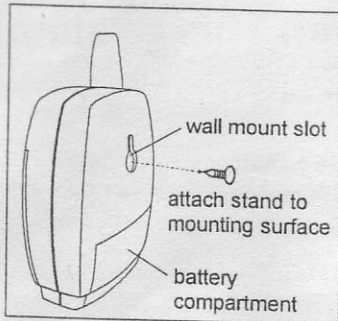
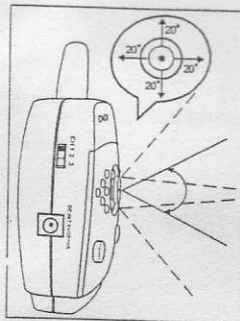
- dry
- good air circulation
- as dust-free as possible
- with a wall outlet in close vicinity
- little vibrations



Select an installation site that is not screened off by reinforced concrete walls, mirrors, metal shelves, etc. Close to the sender respectively receiver, there should not be any appliances with strong electric fields, e.g. cell phones, walkie-talkies, electric engines, etc.

The above points could severely impair radio transmission respectively reduce the range.

### Fastening the wall bracket



- Look for a suitable place for mounting (with a socket close-by)
- Screw the wall bracket with the supplied screws to a suitable wall or a suitable platform, use dowels if relevant.
- Align the camera and screw the corrugated plastic sleeve tight.



## Connecting the camera

Connect the small voltage plug of the power unit to the voltage supply jack of the camera. Pay attention to the correct output voltage of 7.5V DC!

- Insert the plug-in power unit into a suitable main socket.
- The camera is now ready for use.

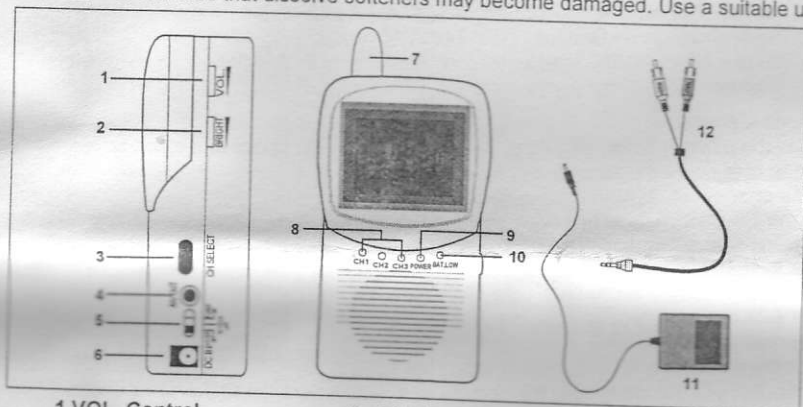
## Installing the Receiver

the monitor approx. 1 m above ground (better receiving conditions). There must be one power outlet in proximity to the receiving site.



### ATTENTION!

Only place the monitor on rugged and stable surfaces. Sensitive surfaces or surfaces that dissolve softeners may become damaged. Use a suitable underlay.



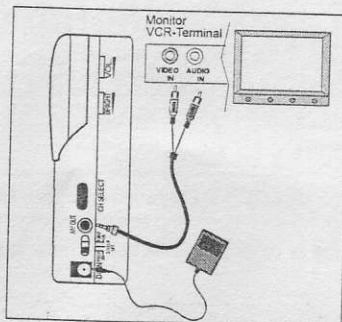
- 1 VOL. Control
- 2 Brightness Control
- 3 CH Select
- 4 A/V Output
- 5 LCD Power ON/OFF



POWER ON  
SCREEN OFF  
POWER OFF

- 6 DC Power
- 7 Antenna
- 8 Channel LED
- 9 Power LED
- 10 BAT.LOW LED
- 11 Power adaptor plug with low voltage switch
- 12 A/V Cable

## Connecting the receiver



- Connect the AV cable as depicted to a suitable monitor or TV system with an AV cinch input and the receiver (white/red plug = audio (tone in mono), yellow plug = video).
- Connect the small voltage plug of the power unit to the voltage supply jack of the receiver. Pay attention to the correct output voltage of 5V DC!
- Insert the plug-in power unit into a suitable main socket.
- The receiver is now ready for use.



# System Installation

When installing the camera, check the reception of the monitor before final installation. Have someone hold the camera in the area to be monitored. Have another person move the monitor to a variety of locations throughout the house to check reception. If interference or other problems occur, refer to the Troubleshooting Guide.

## Wireless 2.5" Color TFT LCD Monitoring System

To install the system, follow these steps:

### Monitor:

1. Plug the 5V AC/DC adapter cord into the DC Input Jack on the side of the monitor.
2. Plug the adapter into a standard (110V-240V) AC outlet. Press the power button to turn on the monitor.
3. A/V outputs on the LCD monitor can be connected to the A/V input on a TV set for a large screen display, or to the A/V inputs on a VCR for recording.
4. You can use either AC/DC adapter for long time use or 4 "AAA" battery for mobile use. The life time of 4 "AAA" battery operation is 45 minutes.

### Camera:

1. Plug the 7.5V AC/DC adapter cord into the DC input jack on the back of the camera.
2. Plug the adapter into a standard (110V-240V) AC outlet.
3. You can use either AC/DC adapter for long time use or 2 "AA" battery for mobile use. The life time of 2 "AA" battery operation is 1.5hr w/o IR function and 1hr w/ IR function.

### System Setup:

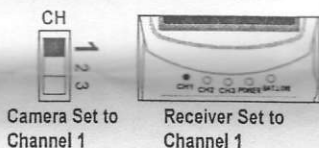
1. Select the channel (Channel 1-3) to be used on both the camera and receiver.

**NOTE:** Make sure the camera and receiver are set to the same channel (1, 2, 3) and Camera should be turn on.

2. Set the selected channel by gently pushing the dip-switch for same channel on both the camera and the receiver.

For example, to set both the camera and receiver on Channel 1: Push the Channel 1 dip-switch located on the side of the camera and the receiver to be in same channel.

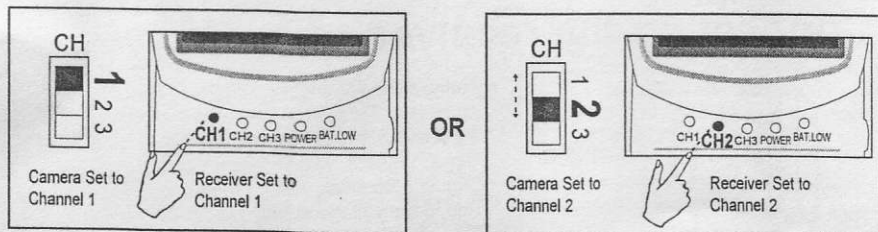
3. For baby monitoring feature, please select the camera ON/OFF switch to be "OFF" on the transmitter unit but make sure the camera and receiver are set to the same channel.



### If more than one camera is to be installed and operated at the same time:

For example, to operate two cameras: set Camera 1 to Channel 1, set Camera 2 to Channel 2, and on the receiver, set channels 1 or 2 to ON.

For more than one camera operation, one image(CH1 or CH2) is showed at a time without auto scanning feature. See "Camera and Receiver Setting Chart" below for detail.



**Additional Notice-** When installing the camera, check the reception of the receiver before final installation. Have someone hold the camera in the area to be monitored and another person to check the reception with your TV or monitor. If interference or other problems occur, refer to the Troubleshooting Guide.



# Technical Data

	Camera	Receiver
Operating voltage	7.5 V DC(plug-in power unit) Battery operation 2 x AA Alkaline	5 V DC (plug-in power unit) Battery operation 4 x AAA Alkaline
Current consumption	200 mA	600 mA
Transmitting frequency	2.4-GHz	2.4-GHz
Modulation	FM	
Channels	3	3
Light sensitivity	0 Lux	
Video output level		1 Vp-p / 75 Ohm
Audio output level, mono		1 Vp-p / 600Ohm
Audio/Video Connection jacks		3.5 mm jack->cinch
Picture sensor	1/3" CMOS colour 628x562 pixel (PAL) or 510x492 (NTSC)	2.5" TFT
Resolution	330 TV lines (horizontal),	480x234
Microphone	mono	
Picture	Color	
Range	100 m / 300 ft (Line of sight)	
Operating temperature	14 to 122°F/ -10°C to +50°C	
Mass approx. (without tripod)	157g	160g
Dimensions without Aerial	75 x 33 x 122 (mm) L x W x H	75 x 33 x 130 (mm) L x W x H

## Plug-in power units

Operating voltage	110~240V / 60 or 50Hz	110~240V / 60 or 50Hz
Output voltage	7.5V DC / 500mA	5V DC / 1000mA

## Maintenance

The devices are maintenance-free, so never open them. The guarantee becomes void when you open the appliance. Only clean the outside of the devices with a soft, dry cloth or a brush. Prior to cleaning, remove the devices from all voltage sources.



Do not use any carboxylic cleaning agents or petrol, alcohol or similar. These attack the surfaces of the devices. Besides, the vapors are hazardous to your health and explosive. Do not use any sharp edged tools, screw drivers, metal brushes or similar for cleaning.