

# Configuring the Main Docking Station

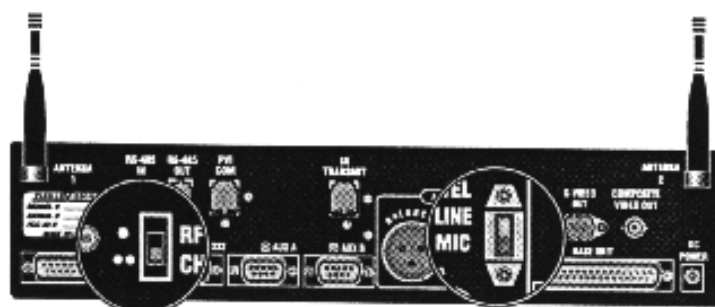
Before you can begin to use your new Presenter Camera System, you need to configure its components.

There are two settings on the back of the Main Docking Station which must be set as follows:

1. Set the **RF CHANNEL** switch to the desired channel. This must match the setting on the Tracking Ring Power Pack. If you experience any problems on one of the channels, switch both to the alternate channel.  
(Factory Default: **UP** position/one dot)
2. Set the **AUDIO LEVEL** switch to the desired audio output.
  - To have a mic-level audio signal, set this switch to **MIC**.
  - To have a line-level audio output, set this switch to **LINE**.
  - This switch setting will apply to the balanced audio output only.  
(Factory Default: **MIC**)

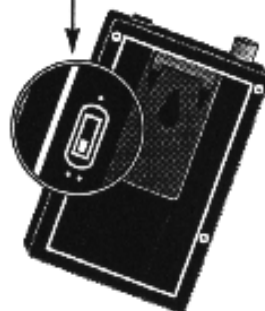


Refer to Appendix B for specifications on the audio outputs.



Step 1:  
RF Channel Switches must match

Step 2:  
Audio Level Switch



## Powering Up

Before you can configure the rest of your Presenter Camera System, you need to turn the system power ON.

Switch **ON** the **POWER** button on the front of the Main Docking Station. The CameraMan camera should automatically enter its position calibration mode and then stop at the 0° point. Verify that the base is now facing in the direction you pointed the **FRONT** label when mounting.



For more information on mounting the CameraMan, see the Installation and Operations Manual that came with the camera.



Main Docking  
Station Power  
Switch

# Configuring the Tracking System Keypad


## Tracking System Keypad

Check the **KEYPAD ADDRESS** rotary switch in the battery compartment of the keypad and verify that the selected setting corresponds to the setting of the **BASE UNIT ADDRESS** switch on the back of the autoTRACK Camera. If they are different, then adjust them to match.

 For more information on configuring the **BASE UNIT ADDRESS** on the camera and keypad, see the Installation and Operations Manual that came with the camera.


If the Tracking System Keypad is being used in the wireless RF mode:

1. Install the supplied AA batteries in the Tracking System Keypad by removing the battery door and inserting the batteries into the battery compartment, as indicated.
2. Once the batteries are installed, replace the battery door and press one of the pan keys.
3. Verify that the LED on the front of the keypad illuminates. This indicates that the batteries are installed properly.


 If the light does not illuminate, then the batteries may be installed backward. Reverse the way the batteries are inserted and try again.

 If the batteries are inserted improperly, it will not damage the keypad, the keypad simply will not work.

If the Tracking System Keypad is being used in the hard-wired mode, then connect the CameraMan Keypad Cable to the RJ-11 type jack located in the battery compartment of the Tracking System Keypad.

 You do not need batteries installed in the Tracking System Keypad when it is being used in the hard-wired mode.


Press the **PAN** and **TILT** arrows (one at a time) and verify that the camera is responding to the keypad. The **COM** light on the front of the camera should flash with every command received by the camera. If the autoTRACK light on the front of the camera is not illuminated, then press one of the four autoTRACK View buttons on the keypad. This should cause the autoTRACK light to begin flashing.


 Refer to pages 15 through 22 for details on using the Tracking System Keypad.



# Configuring the Tracking System Keypad

You can control the CameraMan camera's panning motion with either the PAN/TILT arrows on the bottom or, when using autoTRACK, the SUBJECT POSITION arrows on the top of your Tracking System Keypad. Understanding how the camera moves will help you stay in control of your presentations.

 Modification of the following features is not required for system operation, but they are available if needed.

 For information on configuring your CameraMan camera, refer to the Installation and Operations Manual that came with the camera.

## Understanding the Panning Motion

The PAN/TILT and SUBJECT POSITION arrows on your Tracking System Keypad are designed to help you maneuver the camera both in and out of autoTRACK mode.

The default setting, shown in Example 1, is designed to operate as if you are facing the CameraMan camera. Some examples of applications that would benefit from the default settings are:

- Distance Learning where you are the instructor.
- Presentations where you are presenting to an audience watching you on a monitor.
- Videoconferences where the you are an on-screen participant.
- Any other application where you, the keypad controller, need to be on camera.

There are applications, however, in which you do not need to face the camera (example 2), so the default setting will not work. You find that when you want the camera to move right, the picture moves left. These applications require you to re-orient the PAN arrows (see below). Some examples of applications that might benefit from this re-orientation are:

- Presentations where you are not presenting but are controlling the camera's movement.
- Videoconferences where you are a moderator, but not an on-screen participant.
- Applications where you are in a control room controlling the camera.
- Any other application where you, the keypad controller, do not need to be on camera.

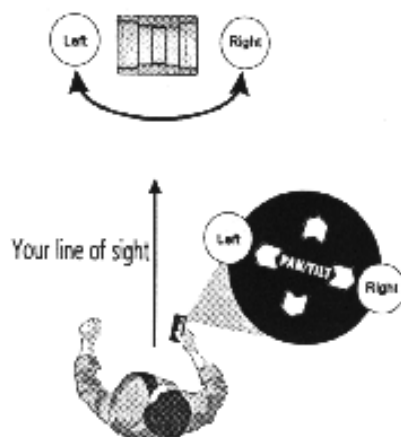
## Re-Orienting the Pan Arrows

To re-orient (reverse) the default setting of the pan arrows on your Camera Control Keypad, use the following simple procedure:

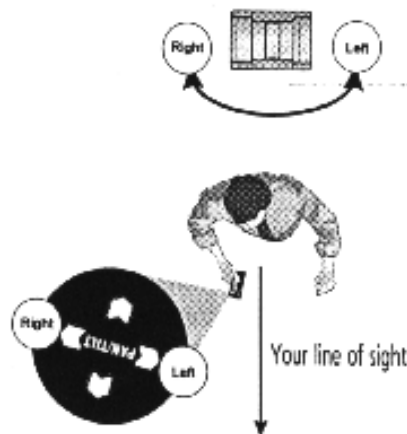
1. Press the TRACKING FREEZE and SETUP buttons *simultaneously*.
2. After about two seconds, the keypad will beep.
3. Release the buttons.

 This will also reverse the operation of the SUBJECT POSITION arrows.

Example 1 (Default setting): Facing toward the camera so you are seeing yourself. The camera sees you.



Example 2: Facing away from the camera so you see the talent, or on-screen participants. The camera sees what you see.



# Other Configurations

The following configurations, like the panning orientation, would apply to your specific application need.

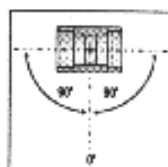


Before changing the autoTRACK Window size, you need to power up the tracking ring package. Refer to page 13.

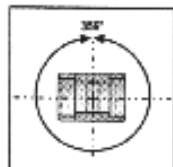
## Maximum Pan/Tilt Travel

Once the CameraMan Camera is installed, you can configure the maximum PAN/TILT settings to suit the application. The CameraMan camera has a maximum pan range of 359°, but comes programmed with factory default settings of ± 90° of PAN and ± 25° of TILT. If desired, use the following procedure to change the maximum position settings:

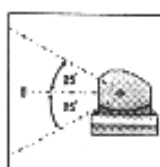
1. Press and hold the **SETUP** button.
2. Press and hold one of the **PAN/TILT** arrows until achieving the desired maximum position.
3. Release the **SETUP** button.
4. Listen for two beeps, indicating that the maximum position for that direction has been set.



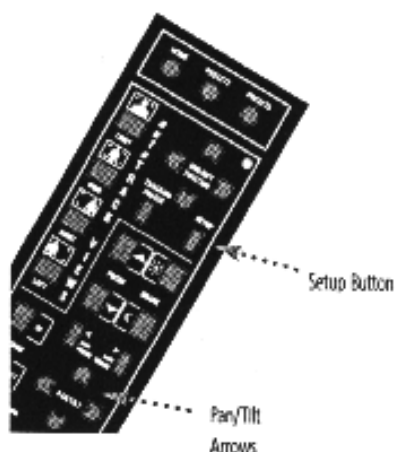
180° Default Pan Settings



359° Maximum Pan Settings



50° Default Tilt Settings

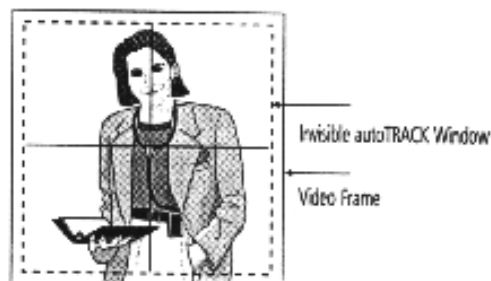


## autoTRACK Windows

Each autoTRACK View includes a pre-programmed window. This window is an invisible area around the presenter where the Tracking Ring's movement will not cause CameraMan to PAN or TILT. Once the presenter decides to move in a direction outside of the invisible autoTRACK window, the CameraMan continues to autoTRACK. This eliminates unnecessary camera motion, which provides better picture quality for videotaping and minimizes the amount of updating necessary at lower CODEC update rates in videoconferencing applications.

Each autoTRACK View has a preprogrammed window. Each window is set at a predetermined factory default and in most applications does not need to be adjusted.

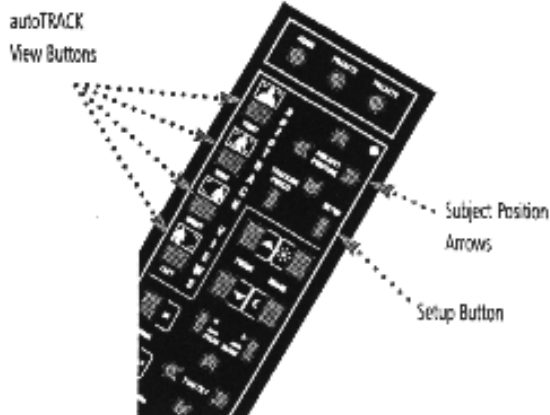
Proper window sizes are factory-determined for the best results. ParkerVision recommends the window size not be altered or adjusted.



If a change in Window size is absolutely necessary:

1. Press and release the desired **autoTRACK View** button.
2. Press and release both the **SETUP** and the desired **SUBJECT POSITION** arrow simultaneously as follows:


Left arrow	Decrease Pan window
Right arrow	Increase Pan window
Down arrow	Decrease Tilt window
Up arrow	Increase Tilt window
3. Press and hold the selected **autoTRACK View** button until you hear 2 beeps indicating the new window size has been set.



Once you have made all the necessary connections and configurations, you are ready to start up the rest of the system.

## Tracking Ring Package

1. Power **ON** the CameraMan camera with the **POWER** switch on the Main Docking Station.
2. Set the Tracking Ring Power Pack's power switch, located on the top of the unit, to the **ON** position. The **Power ON** light on the Power Pack illuminates.

 If the **Power ON** light on the top of the Tracking Ring Power Pack does not illuminate, then refer to the **Troubleshooting** section of this manual.

3. Verify that the **TRACKING UNIT STATUS** light on the camera's display panel illuminates, indicating the communication link between the camera and the Tracking Ring.
4. Press one of the four **autoTRACK View** buttons on the keypad to activate the autoTRACK functionality of the Camera System (the camera will not track until one of the autoTRACK buttons is pressed). Once you are in autoTRACK mode, the **autoTRACK** light on the camera's display panel illuminates.

If the **autoTRACK** light on the CameraMan's display panel is blinking, CameraMan is in the autoTRACK mode, but the link between CameraMan and the Tracking Ring is not active.

To establish this link, move into the CameraMan's field-of-view (Please see the **autoTRACK MODE** or **Troubleshooting** sections of this manual for further assistance).

## Rechargeable Battery

The Tracking Ring Power Pack comes with a built-in 4-hour Rechargeable Battery. When the battery is running low, the **Battery LOW** light on the top of the Tracking Ring Power Pack illuminates. At this time the Tracking Ring Power Pack should be recharged or an Auxiliary Battery Pack should be attached to the Tracking Ring Power Pack.

### To recharge the battery:

1. Turn **OFF** the Tracking Ring Power Pack.
2. Set the switch on the front of the Battery Charger to **TRACKING POWER PACK**.
3. Plug the Battery Charger into an electrical outlet and connect the Power Pack to the charger.

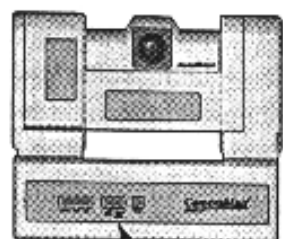
 The Battery Charger takes 2 to 3 hours to recharge the Tracking Ring Power Pack.

The light on the Battery Charger indicates when the battery is fully-charged. If a battery is very low, then the light on the charger flashes slowly. While the battery is charging, the light on the charger stays on. When the battery is fully-charged, the light on the charger flashes faster.

Top view of Power Pack illustrating power switch and ON light



autoTRACK View buttons on Keypad

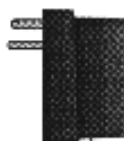


CameraMan display panel tracking lights (ON when active)

Top view of Power Pack illustrating battery LOW light



Top view of Power Pack illustrating battery charger jack



Tracking Power Pack switch on back of battery charger

