



EAGLE

PAN TILT SYSTEMS

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PT-SB

Shot Box for Pan Tilt System

Instructions revised
August 2005



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1. PRECAUTIONARY STATEMENT AND WARRANTY

Please read all of the following documentation before attempting the installation and configuration of these systems. If any of the instructions are unclear to you, call your servicing dealer or Hitachi before proceeding for clarification. Failure to correctly configure and install these systems may cause damage to the equipment, and will void the warranties. Please make sure before connecting or disconnecting any cables that the power supplies are turned OFF.

WARRANTY

Hitachi Denshi America, Ltd. warrants to the original customer that each unit shall be free from malfunction due to defective workmanship or component failure for a period of ONE YEAR from the original date of delivery to the customer. For service under the warranty period, return authorization must be obtained before returning the product. This warranty does not apply to finish or appearance items, to malfunction due to abuse or operation in violation of published operating specifications, or to failures caused by improper connections, modifications, alterations, or other unauthorized repairs. This warranty does not cover labor or shipping costs for removal and/or reinstallation of equipment under warranty. Under no circumstances shall Hitachi Denshi America, Ltd. or Display Devices, Inc., their owners or employees be liable to you for any special damages, including any lost profits, lost savings, or other incidental or consequential damages, or for any claim by any other party.

2. HARDWARE INSTALLATION

2.1 Before starting installation, make certain that all power supplies to equipment are turned OFF.

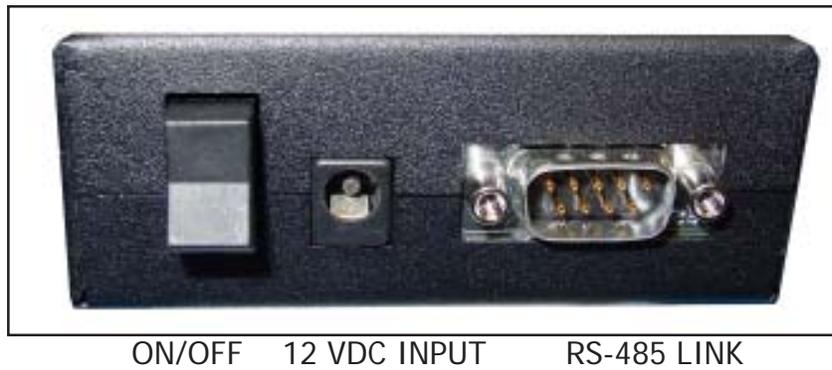
2.2 Place the PT-SB on the desk or counter behind the PT-C or PT-TSC controller.

2.3 Using the supplied Y cable, plug the middle connector of the Y into the PT-SB. Plug one end of the cable into the rear of the PT controller. Insert the control cable to the PT head to the remaining leg of the Y.

2.4 Insert the supplied 12 VDC transformer lead into the power jack on the end of the PT-SB. Turn on the power switch. The LED inside the case will blink on and off, then on solid.

2.5 Plug in and turn on the power supply to the PT controller, and LASTLY the main power supply to the PT head.

2.6 The head should work as normal; the PT-SB is merely a digital recording /playback device that hangs on the RS-485 serial control line to memorize commands for later recall.



2.7 The recommended usage of the PT-SB is as follows:

2.7.1 Start by creating a preset position location at the beginning of the desired motion path. With this preset location in place, the motion path will always be guaranteed to start in the same location and play back the same way. As the PT-SB is just a recorder / player, it is not aware of the current location. So, if you start from an unspecified location, it will replay the motion path you have stored, with no regard to the fact that it may not be starting from the correct location.

2.8 For our example, let's use PRESET 1. Create and store PRESET 1 now. If unfamiliar with how to create a preset, consult your PT-C or PT-TSC manual for detailed instructions.

2.9 PT-SB COMMAND CHART (when used with PT-C controller)

- | | |
|-------------|---------------------|
| OPTION C, 1 | SAVE SHOT #____ |
| OPTION C, 2 | STOP RECORDING |
| OPTION C, 3 | PLAYBACK SHOT #____ |
| OPTION C, 4 | STOP PLAYBACK |
| OPTION C, 5 | DELETE SHOT #____ |

2.10 Above is the list of commands for the PT-C controller to control the PT-SB. Touching OPTION C, then the number, will execute the command on the right. Hit OPTION C, 1 . The display will prompt SAVE SHOT # and the green LED on the end of the PT-SB will go OFF. Enter a memory location number 1 thru 31 to begin saving. The display will change to SAVING. At this point, everything you do is recorded. Start by hitting RECALL PRESET, 1. Once the head reaches the preset, wait about 5 seconds before starting your move. This will give the head time to reach the preset no matter where it starts from. If you don't wait 5 seconds, when the move is played back, it may not start from the preset location.

2.11 Create your move now; remember, whatever you do manually is recorded. If you make an error at this point, you must stop recording and redo the process; there is no

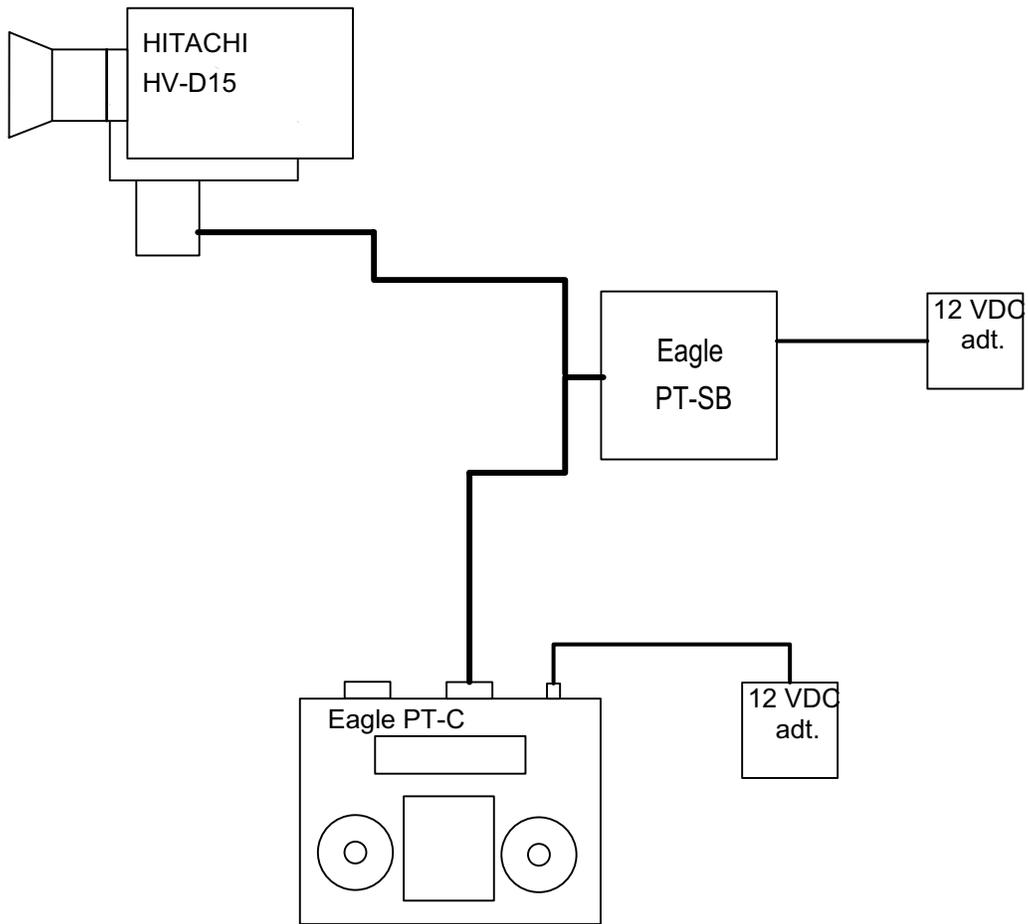
editing of the recording.

2.12 When done with the move, hit OPTION C, 2 to stop recording. There is no feedback from the LCD for this, but the LED on the end of the PT-SB will come back ON.

2.13 To test the playback, enter OPTION C, 3; the display will prompt PLAYBACK SHOT #. Enter the number of the shot to recall. Playback will start within about a second; the LED inside the box will blink on and off continuously during playback. If you want to stop playback early, hit OPTION C, 4.

3. USING PT-SB WITH PT-TSC TOUCH SCREEN CONTROLLER

3.1 Use of the PT-SB with the PT-TSC controller is done in the same fashion as described in section 2. The only differences are that instead of hitting OPTION buttons to access the commands, you may choose the commands directly from the PT-SB control page built into the PT-TSC.



Simple hook up diagram of Eagle PT-SB shot box into single PT system showing RS 485 control wiring