

Eagle PT-AAM
Modem control system
Installation and Operations Manual
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The PT-AAM modem control system allows remote control, via phone lines, of the PT-100, 200, and 300 series pan tilt systems from Eagle. The system must be used in conjunction with either the PT-C or PT-TSC desktop remote control, or the PT-PTC software control program.

1. PRECAUTIONARY STATEMENT

1.1 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.

2. WARRANTY

2.1 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. 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, labor for removal for warranty service, or for any claim by any other party.

3. OPERATIONS

3.1 The PT-AAM system allows the user to remotely control pan, tilt, zoom, focus, and camera functions via a standard dial-up telephone line. The system consists of the two PT-AAM modems, two PT-RSA RS-232 to RS-485 converters, power supplies, and cabling. The modems allow the memorization of up to four separate phone numbers (camera locations) to be stored for easy recall and connection to the camera location. Each location may consist of a single pan tilt head system, or multiple pan tilt heads. The modems should be placed locally to the pan-tilt controller and pan-tilt head (within 200'), or may be placed up to 4000 feet away due to the usage of RS-485 serial communications.

3.2 The two modems are shipped with labels stating "LOCAL END MODEM" and "REMOTE END MODEM" to show that the modems are, in fact, programmed differently. The REMOTE end modem is programmed to be in auto-answer mode, so that when it is dialed from the LOCAL end, it will answer the phone on the first ring. There are various other protocols and commands that are programmed into both of the modems at the factory; they are stored in non-volatile memory inside the modems such that if power is lost and then reestablished, the settings will be retained.

3.3 Storage of numbers is accomplished in the following manner: Touch the FUNCTION key, then the OPTION C button, then the number of the preset memory location you wish to store the number in (1 through 4). NOTE: If using the PT-TSC touch screen controller, follow the detailed instructions included with that controller.

Enter in the phone number using the numeric keypad digits 1-9; use '10' for 0. Button number 16 is used to insert a pause in dialing, such as when 9 or another digit is used to access an outside line. Push the FUNCTION key again to save the number. If you don't save the number using the FUNCTION key, the modem will not dial. The LCD panel will show the number as you enter it. There are a maximum of 13 digits that can be stored. NOTE: If a mistake is made during the entry of the phone number to be dialed, the storage process must be redone; there is no phone number editing at the present time.

3.4 Dialing a stored number is done in the following manner. Press the FUNCTION key, then the OPTION A button, then the number (1 through 4) of the memory location you wish to dial. The LCD panel will show DIALING for about one second to let you know the system is dialing the remote location. The OH (off hook) lights will illuminate on the LOCAL modem. As the call is completed, the system will automatically connect to the remote location and allow the remote control of the pan tilt head (and camera features, if so equipped.)

3.5 To hangup a connection, press FUNCTION, then OPTION B. The LCD display will show HANGUP to let you know the call is being terminated. The modems at both ends will go off line, waiting for the next call.

4. POWER REQUIREMENTS AND CONNECTIONS

4.1 Power supplies for the modems and PT-RSA RS 232 to 485 converters are supplied with the system. **NOTE: USE ONLY THE POWER SUPPLIES SUPPLIED WITH THE MODEMS!! DON'T CONFUSE THEM WITH ANY OTHER ADAPTERS USED BY OTHER EAGLE SYSTEM COMPONENTS !!**

Connections are to be made according to the attached diagrams. It is recommended that the complete system be hooked up and tested in your shop before installation into the field. This will help you in learning how the system works before you get into the field. The systems are hooked up and tested in our factory in total before shipping to you.

TROUBLESHOOTING PT-AAM SYSTEM PROBLEMS

- 1) My modem will not dial; what's wrong?

Make sure that all connections are hooked up as shown in the attached diagram.

Make sure that you have entered and stored a valid phone number as described in this manual. If you have not stored the number correctly, the modem will not dial.

- 2) The modem dials, and the far end connects, but I don't have control of the pan tilt head.

Make sure the controller is set to the correct pan tilt head address. If you are unsure of the address, or how to address the head, consult the specific manual for your pan tilt head.

- 3) The modem dials, but the far end doesn't connect.

Make certain you have programmed and dialed the right number.

Also make sure that no one has tampered with or stolen the equipment at the remote location.

If you don't see your question or answer here, contact Eagle Pan Tilt Systems tech support at (303) 412-0399, Monday thru Friday, 8AM to 5PM Mountain Time. You may also check our website at <http://www.eaglepantilt.com> for access to any manuals or documentation you need.

EAGLE PT-AAM MODEM SYSTEM DIAGRAM FOR OUTDOOR REMOTE CONTROL

