

# *Operating Manual*



P5085  
Telephone Recorder

**Welcome:**

Congratulations on your purchase of the P5085 Telephone Recorder! You now possess one of the most sophisticated telephone recording devices on the market today. With features like Extended Recording Mode, and Voice Controlled System, the P5085 Telephone Recorder can fulfill your telephone recording needs, allowing over 8 hours of recording time per cassette. Be sure to review these instructions carefully prior to use to ensure complete understanding of the unit. There are many new features to be explored. Proper care and usage will provide for years of trouble free service. Contact information for Technical Support can be found on the insert to these instructions.

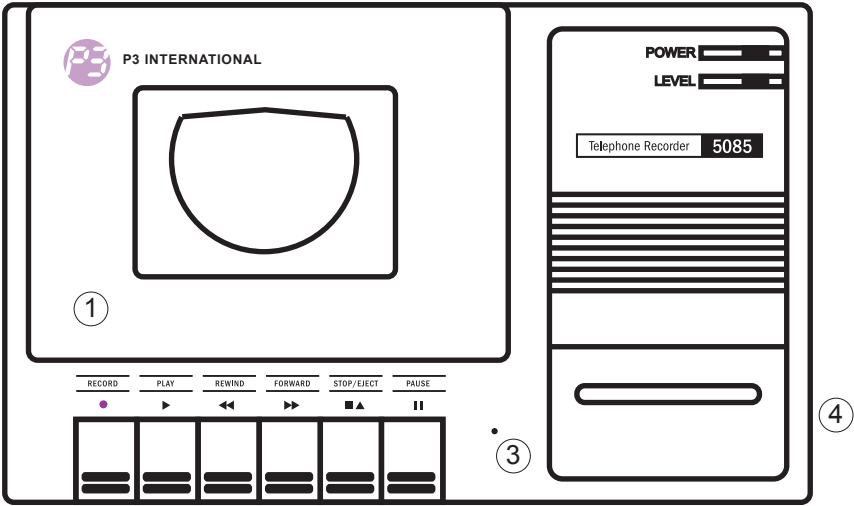
**IT IS THE USER'S RESPONSIBILITY TO ENSURE THAT CONVERSATIONS ARE ONLY RECORDED IN ACCORDANCE WITH THE LAW OF THE JURISDICTION WHERE THE EQUIPMENT IS UTILIZED.**

**Contents:**

- 1 P5085 Telephone Recorder
- 1 Duplex Telephone Jack Adapter
- 1 Telephone Cable
- 1 Handset Adapter Cable (features attached coiled cord)
- 1 Cassette (installed in unit)
- 1 AC Power Adapter
- 1 Operating Instructions (this document)

**Legend:**

- (1) CASSETTE DOOR
- (2) TAPE TRANSPORT CONTROLS
- (3) MICROPHONE
- (4) VOLUME CONTROL (ON SIDE OF UNIT)
- (5) VCS (VOICE CONTROL SYSTEM)
- (6) SPEED (TAPE SPEED)
- (7) MONITOR
- (8) VCS SEN. (VCS SENSITIVITY)
- (9) LINE VOLT (VOLTAGE SELECTOR)
- (10) SOURCE
- (11) EAR (EARPHONE JACK)
- (12) PWR (DC POWER INPUT)
- (13) LINE IN (TELEPHONE LINE)



TOP PANEL

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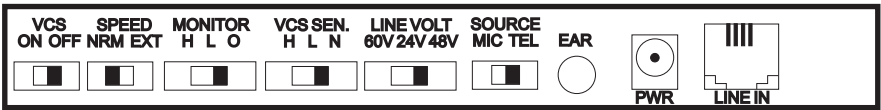
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REAR PANEL

## **QUICK START INSTRUCTIONS:**

If you want to get a fast start use the following instructions for immediate results. We recommend you come back and review the full instructions for details on all the features of the Telephone Recorder.

- 1. Connect Power and Telephone cables.**
- 2. Turn monitor switch to off (O) or low (L) to avoid feedback.**
- 3. Press Record and Play key together.**
- 4. Place or receive a telephone call.**
- 5. After call, rewind cassette and play back.**

### **Background:**

The P5085 Telephone Recorder is the result of our years of experience with manufacturing telephone recording devices. We have attempted to bring to the market the most easy-to-use telephone recorder with extended recording time ever produced. The unit preserves the basic functions of recording and listening back to your telephone calls while quadrupling recording time! Other features include:

**Flexible Interfacing:** The P5085 is ready for connection to a variety of single-line, multi-line, KSU and PBX applications using Line Voltage Selection, Voice Control System (VCS) and the handset adapter features.

**Voice Control System (VCS):** Using VCS, the recorder only activates when it detects sound. No more wasted tape during those silent periods.

**Built-in Microphone:** The P5085 features an internal microphone. Use as a normal recorder taking advantage of the extended recording time.

**Extended Recording Mode:** Allows you to quadruple recording time per cassette!

### **Installation:**

A clear plastic sheet covers the window in the Cassette Door (1). This is for protection of the window during production and transport. You may remove and discard this sheet if you wish.

### **Connection to power:**

You may provide power to the P5085 Telephone Recorder with the use of AA batteries or the included AC adapter. We recommend use of the adapter whenever an AC outlet is convenient to the recorder to ensure continuous operation of the unit.

To install batteries: Turn the unit over. Remove the battery compartment cover. Insert 4 AA (UM-3) batteries following the polarity diagram. Place the ribbon underneath the cells for easy removal of dead batteries. Replace the battery compartment cover. We recommend the use of Alkaline or Lithium batteries for best performance. If batteries will not be used for an extended period, remove them from the battery compartment to prevent leakage. Please dispose of exhausted batteries correctly.

To connect AC adapter: Plug the DC power jack into the socket labeled PWR (12) on the rear of the unit. Connect the AC adapter to a 110 VAC wall outlet. Ensure that the wall outlet has continuous power and is not turned off by a wall switch.

The Power LED on the top panel will illuminate when the recorder is receiving power.

### **Connection to Telephone Line:**

#### **For Standard Single-line Analog Systems (most home phones)**

If you have an unused telephone outlet available to connect the P5085 Telephone Recorder, you may skip the following paragraph.

Choose the telephone outlet in your home or office where you wish to connect the P5085 Telephone Recorder. Disconnect the existing telephone cable from the telephone outlet. Plug the supplied duplex adapter into the telephone outlet. The duplex adapter is the piece without the attached coiled cable. Re-connect the existing telephone cable to one of the two outlets in the duplex adapter. Use the other outlet for the connection to the P5085 Telephone Recorder. The unit will record calls for all telephones connected to the same phone line throughout your home or office.

Connect the supplied telephone cable into the telephone outlet. Connect the other end of the supplied cable to the LINE IN connector (13) on the P5085 Telephone Recorder.

#### **For Two-line Analog Systems (many home-office situations):**

The P5085 Telephone Recorder is a single-line device. It can only record from one phone line at a time. It can however be connected to two-line phones. If you use your second line for fax or modem communications and do not desire recording this line, follow the above instructions for single-line installation.

If you desire the capability to record from both line 1 and line 2, you should use the provided handset adapter. This adapter connects to the handset of your telephone and provides the ability to record whichever phone line is in use. To install the handset adapter, first disconnect the coiled handset cord from your telephone base. Plug the supplied handset adapter (the piece with the coiled cord) into your telephone base. Re-connect your telephone's handset cord to the small outlet (not the large one!) in the handset adapter. Connect the supplied telephone cable into the large outlet in the handset adapter. Connect the other end of the supplied cable to the LINE IN connector (13) on the P5085 Telephone Recorder. Lift your telephone handset to check the dialtone. If you do not receive dialtone, your telephone is incompatible with the handset adapter. Restore the original connections and contact Technical Support to review your available options.

**IMPORTANT NOTE!**

When using the provided handset adapter, you must use the Voice Control System (VCS). To use VCS, adjust the VCS switch (5) to the On position. Please see the sections below on the Rear Panel and VCS for more information.

**For Multi-line Telephone Systems (most commercial and institutional applications)**

There are a variety of methods for connection of the P5085 Telephone Recorder to multi-line telephone systems. The easiest method is the use of the provided handset adapter. Please see the section above for two-line analog systems for use of the handset adapter.

For some analog (not digital) multi-line systems, connection to the telephone line is possible. Contact Technical Support for more details on alternative connection methods.

**Rear Panel (please refer to diagram):**

There are several controls and connectors on the rear of the unit. The controls are used to select various operating modes and features of the P5085 Telephone Recorder. The default position for each switch control is set at the factory. In most cases the switches can be left in the default position. If you need to change the position of a switch, a small screwdriver or a pencil may be necessary to move the switch. A brief list of the controls and connectors and their functions follows. More details on these features may be found in the appropriate section of these operating instructions.

**VCS (5):** Default is OFF position. Used to activate Voice Control System.

**SPEED (6):** Selects Normal Mode or Extended Recording Mode. Normal Mode runs the cassette tape at standard speed. Extended Recording Mode will quadruple the amount of recording time available per cassette tape.

**MONITOR (7):** Used to switch monitor off (O) or to low (L) or high (H) volume mode. Monitor allows you to listen to telephone calls as they are recorded.

**VCS SEN. (8):** Default is Normal (N). May be set to High (H) or Low (L). Controls sensitivity of VCS mode.

**LINE VOLT (9):** Used to adjust the P5085 Telephone Recorder for use with different telephone line voltages. The unit comes factory set for use with -48 VDC telephone lines. This is the correct setting for most installations. The other settings are for non-standard telephone connections such as some analog KSU and PBX systems. Please contact Technical Support for more details.

**SOURCE (10):** Switches between telephone recorder and internal microphone record mode.

**EAR (11):** for external earphone.

**PWR (12):** Connect to included AC Power Adapter

**LINE IN (13):** Connect to phone line.

## **Tape Transport Controls (2):**

The P5085 Telephone Recorder features familiar keys for operation of the tape deck. RECORD, PLAY, REWIND, FORWARD, STOP/EJECT, and PAUSE.

**RECORD:** Starts record mode. Note that the PLAY key should also be depressed when RECORD is pressed.

**PLAY:** Starts tape playback.

**REWIND:** Rewinds tape for review of recordings.

**FORWARD:** Winds tape forward to find desired recording.

**STOP/EJECT:** When pressed, when one of the above modes is selected, will stop tape. Otherwise will open Cassette Door (1) for removal/replacement of cassette.

**PAUSE:** Temporarily stops tape transport during PLAY or RECORD mode. Do not leave PAUSE engaged for extended periods or damage to tape may occur.

## **Recording:**

The P5085 Telephone Recorder features 2 different recording modes. Line Activation Mode and Voice Control System (VCS) Mode.

Line Activation Mode is set as the default from the factory and is used in most applications. When the VCS switch (5) on the rear panel is set to OFF, the recorder is in Line Activation Mode. See the section below on VCS Mode for more details.

Press the STOP/EJECT key to open cassette door. Insert cassette. Close cassette door. To record telephone calls press the REC and PLAY tape transport keys simultaneously. Place a call. You will observe the tape moving when you begin the call. The Level LED will flicker while recording. Adjust monitor switch if you wish to listen to telephone conversation during recording. Unit will feedback if monitor is left on and handset is brought too close to the recorder during recording. If this happens turn the monitor switch to off (O). When call is completed, hang up.

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**Recording Using The Microphone:**

To use the internal microphone rather than the telephone line as the recording source, adjust the SOURCE switch (10) on the rear panel to MIC. The microphone is located on the top panel to the right of the PAUSE control. Return the switch to TEL to resume telephone recording.

**Playback:**

The P5085 Telephone Recorder can also play back recordings you have made of telephone calls. If recordings are made using the Extended Recording Mode, you will not be able to playback these recordings on other tape players. Since the recording speed is different, the playback will be distorted. You may only playback recordings made using the Extended Recording Mode using the P5085 Telephone Recorder.

Press the STOP/EJECT key to open cassette door. Insert cassette. Close cassette door. Rewind cassette and push PLAY. Adjust volume control to desired level. You may fast-forward, rewind, and pause the tape as you would a normal tape player. NOTE: As most cassettes contain a few seconds worth of leader tape at the beginning, any recorded conversation will be lost if you attempt to use this portion of the tape. Use leaderless tape or advance the tape past the leader if you wish to avoid this problem.

**Voice Control System (VCS):**

The Voice Control System mode (VCS) is different from line activation in that the recorder ignores the DC voltage available on the telephone line. Rather, the recorder will record based on the presence of an audio signal. This mode is recommended only for use with non-standard telephone lines (e.g. KSU or PBX analog lines). Connect the recorder to the voice path and select VCS On from the rear panel. When you press the Record key, the tape will record for a few moments (even though the phone line is inactive) and then stop. If you use the VCS mode and during a phone call, there is an extended moment of silence, (e.g. being placed on hold) the tape will stop recording. When conversation resumes, the tape will restart. You may miss a fraction of the first spoken word while the recorded comes up to speed. Again, it is recommended only to use VCS mode for use with non-standard telephone lines.

**VCS Sensitivity:**

The sensitivity of the VCS system is preset at the factory. If however, you are finding that the P5085 Telephone Recorder is not sensitive enough and it does not record portions of your conversation, the sensitivity can be adjusted. The VCS Sensitivity setting is found at the rear of the unit (VCS SEN.). Using a small screwdriver you can adjust the control to High (H). If the VCS sensitivity is set too high, the recorder will continue to record during silent periods. If this occurs reduce the sensitivity by setting the VCS Sensitivity to Low (L).

**Tape Head Maintenance:**

Use rubbing alcohol and a cotton swab to clean the tape head surfaces, pinch roller (black rubber roller) and capstan (metal spindle) once every three months. Commercial tape path cleaners may also be used.

**Frequently Asked Questions:****I installed my recorder but the Power LED is dark and nothing is working, what's wrong?**

Make sure the unit is receiving power. Check the installation instructions above.

**Do I have to connect the recorder to the telephone that I wish to record?**

No, you can connect the recorder to any available telephone jack. The recorder will record calls made on all telephone extensions connected to the same phone line. If you wish to record only certain calls, install the recorder next to the telephone that you will be using so that you may switch the recorder on and off.

**Can I use my recorder with two phone lines?**

The recorder is a single line device and can only record from one phone line at a time. It can be connected to two-line and multi-line (KSU or PBX) systems for use with multiple telephone lines. For details see installation instructions above. Contact Technical Support for more information on challenging installations.

## **How do I connect the recorder to my multi-line (KSU or PBX) telephone system?**

The answer varies as these systems feature different architectures. The easiest solution is to use the provided handset adapter. Please see detailed instructions for the handset adapter in the two-line phone system section above. You may also connect the P5085 Telephone Recorder to an “outside line” before the line connects to your telephone system switchbox. At this point the telephone line is the same as a standard single line as you would find in your home. If a phone jack is not available, have your telephone system installer install one. Note that this configuration would record calls on only one line at a time. The P5085 Telephone Recorder would not record calls on the outside lines that the unit is not connected to. For complete recordings of all lines, purchase a P5085 Telephone Recorder for each line.

You may be able to connect the P5085 Telephone Recorder to your desktop phone if your phone system is analog (not digital). This would involve using the VCS mode or an alternative setting on the LINE VOLT switch (9). Contact Technical Support for more information on this.

Again, the easiest method of connection is using the provided handset adapter. This adapter will work with most telephone handsets. See instructions above for connection of the handset adapter.

## **What kind of tapes do I need to use?**

Use high-quality name-brand “Normal Formulation” cassettes. The recorder is not designed for use with Chrome or Metal formulation tapes. You may use any length of tape up to C-120 (120 minutes). Be aware the C-120 cassettes have a thinner tape and are more subject to breakage than shorter length cassettes. Use care when handling C-120 cassettes.

## **What happens when the tape ends?**

The recorder features an automatic shut-off mechanism that will stop the tape. There will be a slight click sound when the recorder turns off. There will not be any noise on your telephone line when the recorder turns off.

## **When I am recording I hear a “squealing sound”, what’s wrong?**

This is feedback. If you have the MONITOR switch in the Low (L) or High (H) position while recording and the telephone that you are using is too close to the recorder, you will experience feedback. Either move the telephone away from the recorder or switch the MONITOR switch Off (O).

### **When I play back the tape, the voice sounds funny, Why?**

If the voice sounds like a cartoon (either too high or too low in pitch), then you likely have the wrong speed selected for that specific recording. Switch the SPEED switch on the rear panel to the other speed. If this does not help then check that the tape heads are clean (see section on tape head maintenance), if this does not work, replace the cassette.

### **When I play back the tape, the beginning of some words are cut off, Why?**

This tape was likely recorded using the Voice Controlled System (VCS). VCS automatically starts and stops the recording when it detects conversations. When the recorder starts it takes a fraction of a second for the motor to respond. This slight delay can lead to the beginning of the first word being cut off. If possible use the Line Activation Mode (by switching VCS Off). The sensitivity of the VCS is factory preset to a level useful by most. However, it can be adjusted if necessary. (see the section on adjusting VCS sensitivity).

### **Can I play tapes made on my recorder on other tape players?**

You can play tapes that were recorded at normal speed on other tape players. You may note a slight difference in pitch of the recorded voices due to slight differences in recording speed. Tapes recorded at extended recording speed will not be playable on other players as the tape speed is not standard. If necessary, a recording made at extended recording speed can be copied to another tape recorder but connecting a "dubbing cable" (available at Radio Shack® and other electronics stores) from the EAR output of the recorder to the microphone or auxiliary input of a standard recorder.

### **What is the LINE VOLT switch for?**

This switch is factory preset to match the line voltage for standard telephone lines (-48 VDC) and should normally not be changed. It can be adjusted to match alternative telephone line voltages for use with KSU or PBX systems. Contact Technical Support for more information on this.

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## FCC REQUIREMENTS:

This equipment complies with Part 68 of the FCC rules. On the back of this equipment is a label that contains, among other information; the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. IF REQUESTED, THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area. If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment please contact the manufacturer for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. This equipment may not be used on coin service lines provided by the telephone company. Connection to party lines is subject to state tariffs.

Installation:      This device is equipped with a USOC RJ-11C connector.

## P3 INTERNATIONAL CORPORATION LIMITED WARRANTY

P3 INTERNATIONAL CORPORATION ("P3") warrants to the original retail purchaser only, that its product is free from defects in material or workmanship under the condition of normal use and service for a period of six (6) months from the date of purchase. In the event that a defect, malfunction or failure occurs or is discovered during the warranty period, P3 will repair or replace at its option the product or component part(s) which shall appear in the reasonable judgment of P3 to be defective or not to factory specifications. A product requiring service is to be returned to P3 along with the sales receipt or other proof of purchase acceptable to P3 and a statement describing the defect or malfunction. All transportation costs shall be borne by the owner and the risk of loss shall be upon the party initiating the transportation. All items repaired or replaced thereunder shall be subjected to the same limited warranty for a period of six (6) months from the day P3 ships the repaired or replaced product. The warranty does not apply to any product that has been subject to misuse, tampering, neglect, or accident or as a result of unauthorized alterations or repairs to the product. This warranty is void if the serial number (if any) has been removed, altered, or defaced. This warranty is in lieu of all warranties expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose which are expressly excluded or disclaimed. P3 shall not be responsible for consequential, incidental or other damages, and P3 expressly excludes and disclaims liability for any damages resulting from the use, operation, improper application, malfunction or defeat of any P3 product covered by this limited warranty. By acceptance of the product, the owner recognizes that the security aspects of this P3 product may be subject to defeat or compromise by appropriate counter-measure devices, and that such defeat or compromise may result in confidentiality or important information being lost. P3 expressly disclaims any responsibility for consequential or incidental, including but not limited to those attendant upon lost confidences, resulting from any such defeat or compromise, whether due to a defect in material workmanship, faulty design or otherwise. P3's obligation is strictly and exclusively limited to the replacement or repair of any defective product or component part(s). Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. P3 does not assume or authorize anyone to assume for it any other obligation whatsoever. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you. NOTE: This product may require a munitions control export license if it is to be transported or shipped outside the continental United States. It is the owner/user's responsibility to comply with local, state, or federal regulations, if any, that may pertain to P3 products or their use. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you experience difficulty in the operation of your unit, or if your unit requires repair please contact:

P3 INTERNATIONAL CORPORATION  
TECHNICAL SUPPORT  
71 West 23rd Street  
Suite 1201  
New York, NY 10010-4102  
Tel: 212-741-7289  
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## NOTES

