TEXAS INSTRUMENTS

TI-Presenter™

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Introduction

TI-Presenter projects the display of your TI graphing calculator to a video device such as a TV, a VCR, a video camera, or a video projector with composite video input.

The pre-installed TI-Presenter software supports the following calculators: TI-73, TI-82, TI-83, TI-83 Plus, TI-85, TI-86, TI-89, TI-92, and TI-92 Plus. To use TI-Presenter, you must have a ViewScreen™ model of any of these calculators and a TV.

TI-Presenter uses Flash technology, which allows you to upgrade your TI-Presenter to new features as they become available from the TI web site without buying a new unit (see page 6).

First Things First

Make sure your package contains all of the following:

- TI-Presenter
- AC/DC power adapter (AC-9920)
- Power cable
- Video cable
- Type I calculator cable
- Type II calculator cable
- SCART video adapter (for European countries only)[*]
- Carrying case
- TI-Presenter User Guide

If any of these items is missing, contact the TI product dealer where you purchased your TI-Presenter.

For your calculator, you will need either the Type I cable or the Type II cable. (The type of the cable is indicated on the tag attached to the cable.) Before you start setting up your TI-Presenter, choose the appropriate cable from the following:

- For TI-73, TI-82, TI-83, TI-83 Plus, TI-85, and TI-86 calculators, use the Type I cable.
- For TI-89, TI-92, and TI-92 Plus calculators, use the Type II cable.

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[*] Texas Instruments does not guarantee proper performance of the SCART adapter with devices other than TI-Presenter.

Hardware/Software Requirements

TI-Presenter is designed to provide video output in two TV formats – **NTSC** and **PAL**. Make sure your TV supports one of these formats.

To use your TI-Presenter, you must have the following:

- A ViewScreen calculator.

- An **NTSC** or **PAL** TV with:

  - A composite Video-In port and the ability to switch from TV channels to video input mode.

    -or-

  - A VCR with a composite Video-In port.

    -or-

  - An RF (regular antenna connection) port and an RF modulator.

Many **PAL** TVs are equipped with a SCART Video-In port (Europe only). If that is the case, use the enclosed SCART adapter.

Setting up Your TI-Presenter

Refer to the drawing below when setting up your TI-Presenter. Step-by-step instructions are given on the following pages.
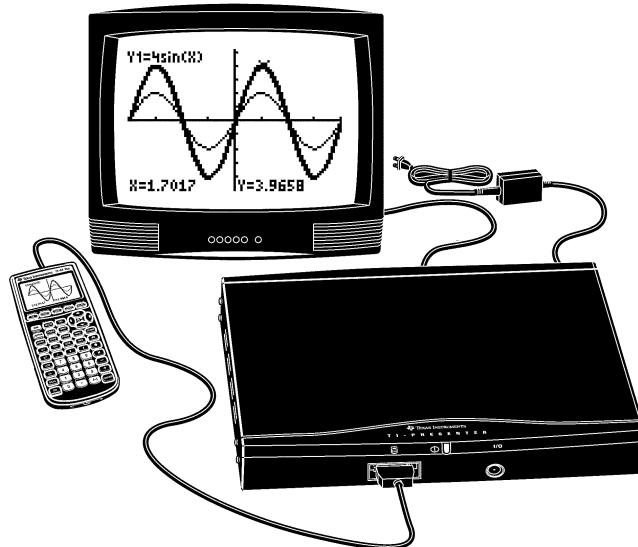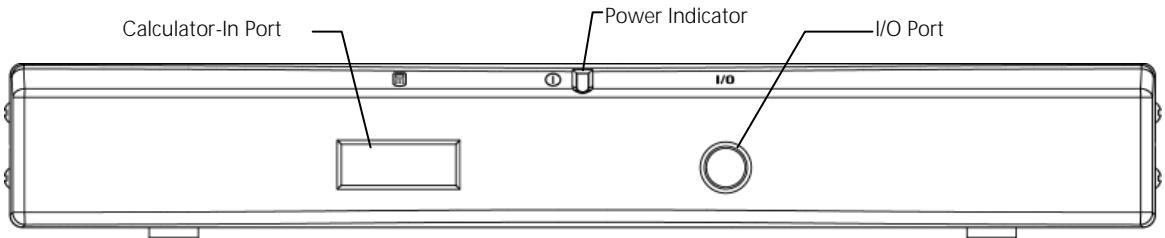

Figure 1. Cable and unit connection

Calculator-In Port — Power Indicator — I/O Port

Figure 2. TI-Presenter front panel

Potential Future Use — Video-Out Port — Potential Future Use

⊕–◐–⊖ 6V ⎓ ⎓ ⎓   ⎓~   ⎓→   •←:   NTSC / PAL

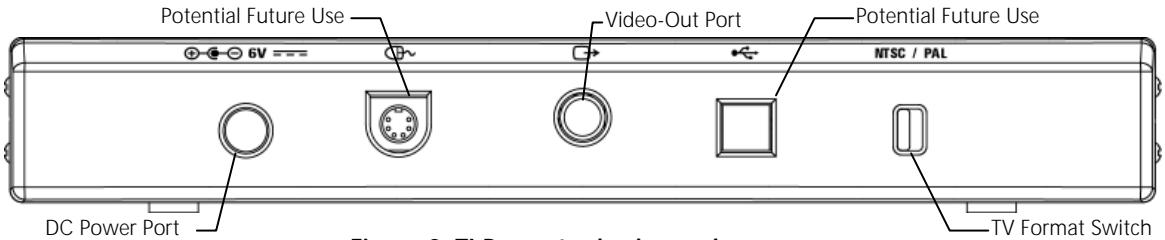DC Power Port — TV Format Switch

Figure 3. TI-Presenter back panel

Before you set up your TI-Presenter, make sure your calculator is turned off.

1. Connect the power cable to the AC/DC adapter.

2. Connect the other end of the AC/DC adapter to the DC Power Port on the TI-Presenter.

3. Connect one end of the video cable to the Video-Out Port on the TI-Presenter. Connect the other end of the cable to:

   • the Video-In Port on the TV (**for Europe only**, use the SCART adapter).
      -or-
   • the Video-In Port on the VCR.
      -or-
   • the RF modulator.

   Note: If you connect TI-Presenter to the TV through a VCR or an RF modulator, see the manufacturer's manual for connection instructions.

4. Connect the larger connector on the calculator cable to the Calculator-In Port on the TI-Presenter. Connect the other end of the calculator cable to the ViewScreen Port on the calculator. (To determine which calculator cable to use, see page 4.) **Do not use the calculator's unit-to-unit cable to connect the calculator to TI-Presenter.**

   Note: The calculator cable connectors are equipped with locks. When you connect one, you will hear a "click." To disconnect, push in slightly on the sides of the connector to release it.

5. On TI-Presenter, set the TV format switch to **NTSC** or **PAL**, as appropriate.

6. Plug the power cable into a wall outlet. The Power Indicator may flash a few times, then it will turn green.

7. Turn on the TV and select video input mode. In about 10 seconds, you will see the TI-Presenter splash screen on your TV.

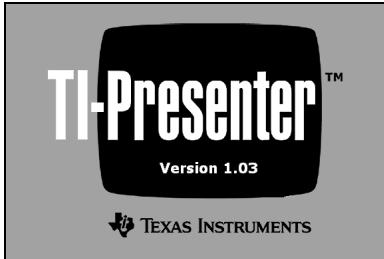   **Note:** You may first see the TI-Presenter busy screen.
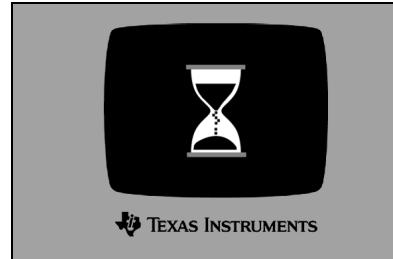

Figure 4. TI-Presenter splash screen

Figure 5. TI-Presenter busy screen

8. Adjust the TV contrast, if necessary.

   Note: Adjusting the calculator's contrast does not affect the TV's contrast.

9. Turn on the ViewScreen calculator. TI-Presenter automatically detects the type of calculator you have connected to it. (Detection and set-up may take up to 15 seconds, during which you will see the TI-Presenter busy screen.)

   Your TI-Presenter is now ready to use. On some calculators, you may have to press CLEAR to synchronise TI-Presenter with the calculator screen.

Caution: When connected to TI-Presenter, the calculator uses power from TI-Presenter instead of its batteries. However, if the batteries in the calculator are low or if there are no batteries in the calculator, you may lose all the data stored in RAM when you disconnect the calculator from TI-Presenter.

Automatic Power Down™

Approximately 5 minutes after the calculator goes into Automatic Power Down™ (APD™) mode or is disconnected from TI-Presenter, TI-Presenter goes into APD mode also. To exit the APD mode in both devices, connect the calculator to TI-Presenter and press the calculator's ON key. On some calculators, you may have to press CLEAR to synchronise TI-Presenter with the calculator screen.

Flash Upgrading

TI-Presenter uses Flash technology, which lets you upgrade the unit to new features as they become available without buying a new TI-Presenter. For information about upgrades, visit the Texas Instruments web site at:

http://www.ti.com/calc/presenter

To upgrade your TI-Presenter, you must have a PC or Macintosh® computer and a TI-GRAPH LINK™ cable (available separately). Follow the instructions on the web site to upgrade TI-Presenter.

Troubleshooting

If you have problems setting up or operating your TI-Presenter, refer to this table:

Problem	Solution
TV screen is different from the calculator display (but is not the splash screen or busy screen).	• Press `CLEAR` on the calculator. • Turn off the calculator, then turn it back on and start your input again. • Make sure the calculator cable connector is fully inserted into the ViewScreen port on the calculator.
Calculator display takes only 1/4 of the TV screen (TI-89 only).	Press `2nd` and `MEM` on the calculator. Press `F1` to select Reset Mode and select 3: Default.
No image is on the TV screen.	• Make sure the calculator cable is fully inserted into the correct port on TI-Presenter. • Make sure the TV mode switch on TI-Presenter is in the correct position. • Make sure the TV and/or VCR is on. • Make sure TI-Presenter is on. • Make sure the TV is in the video mode. • Turn off the calculator then turn it back on. • If none of the above helps, disconnect everything and then follow the set-up instructions.
TV screen goes blank.	TI-Presenter may have gone into the APD mode. To exit the APD mode, connect the calculator to TI-Presenter(if it is not connected at this point) and turn the calculator on.
The Power Indicator does not turn green.	Make sure the power cable is fully inserted into the AC/DC adapter and into the wall outlet.
The Power Indicator on TI-Presenter is blinking.	Base code in TI-Presenter may have been damaged. Download the base code from TI web site (see the TI web site for instructions).
Scrolling frames on the TV screen.	Make sure the TV format switch is in the correct position.

TI Product, Service, and Warranty Information

TI Product and Services Information

For more information about TI products and services, contact TI by e-mail or visit the TI calculator home page on the world-wide web.

e-mail address: **ti-cares@ti.com**

internet address: **http://www.ti.com/calc**

Service and Warranty Information

For information about the length and terms of the warranty or about product service, refer to the warranty statement enclosed with this product or contact your local Texas Instruments retailer/distributor.

内容表

产品简介

TI-Presenter 可将您 TI 图形计算器上的显示投影到电视机、VCR、摄像机或带有复合视频输入口的视频投影机等视频设备上。

预安装的 TI-Presenter 软件支持以下的计算器: TI-73、TI-82、TI-83、TI-83 Plus、TI-85、TI-86、TI-89、TI-92 和 TI-92 Plus。欲使用 TI-Presenter，您必须具备这些计算器的任何一种 ViewScreen™ 型计算器和一台电视机。

TI-Presenter 的 Flash 技术，如 TI 网址上备有的话，您可以升级您的 TI-Presenter 来获得最新功能而无须购买新的设备(请参阅第 5 页)。

首先要进行的工作

请确认包装内含有以下的全部物品:

- TI-Presenter
- AC/DC 电源适配器(AC-9920)
- 电源线
- 视频电缆
- I 型计算器电缆
- II 型计算器电缆
- SCART 视频i适配器(仅对欧洲各国)*
- 机箱
- TI-Presenter 用户指南

如以上物品之一遗失，请联系购买您的 TI-Presenter 的 TI 产品经销商。

对于计算器，您则需要使用 I 型或 II 型电缆。(电缆类型在电缆的贴附标签上指明。)在开始设置您的 TI-Presenter 前，按以下说明选择一种合适的电缆:

- 对于 TI-73、TI-82、TI-83、TI-83 Plus、TI-85 和 TI-86 型计算器，请使用 I 型电缆；
- 对于 TI-89、TI-92 和 TI-92 Plus 型计算器，请使用 II 型电缆。

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* Texas Instruments(德州仪器公司)不保证 SCART 适配器与 TI-Presenter 以外的设备一起工作时，其性能正常。

硬件 / 软件需求

TI-Presenter 设计成可以两种电视制式进行视频输入 – **NTSC** 和 **PAL**。请确认您的电视机支持这两种制式之一。

欲使用您的 TI-Presenter，您必须具备以下:

- 一台 ViewScreen 型计算器;

- 一台 **NTSC** 或 **PAL** 制式的电视机，带有:

    ♦ 复合视频输入端口，具有从电视频道切换到视频输入模式的能力;

      -或-

    ♦ 一台具备视频输入端口的 VCR;

      -或-

    ♦ RF(普通天线连接) 端口和 RF 调制器。

许多 **PAL** 电视机配有 SCART 视频端口(仅对欧洲)，如这样的话，请使用包括的 SCART 适配器。

设置您的 **TI-Presenter**
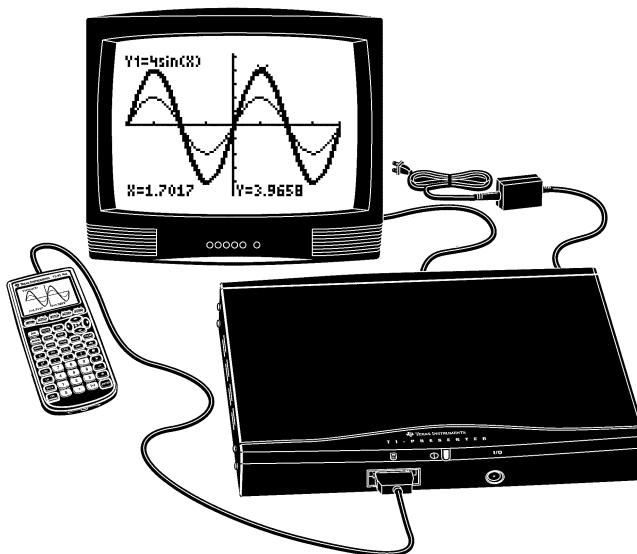
设置您的 TI-Presenter 时，请参阅以下的图示，逐步的说明在后续页中均有给出。
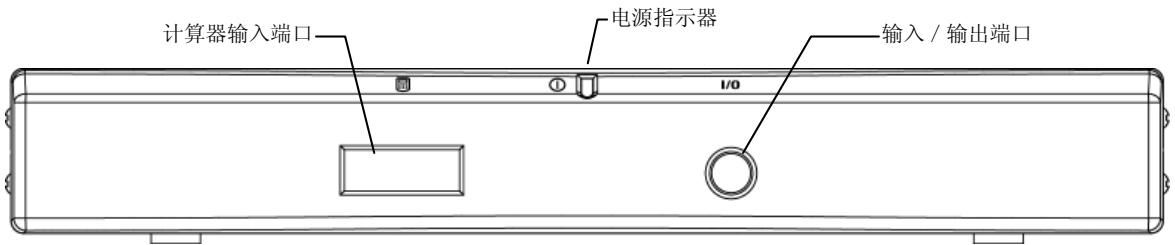

图 1. 电缆和器具的连接
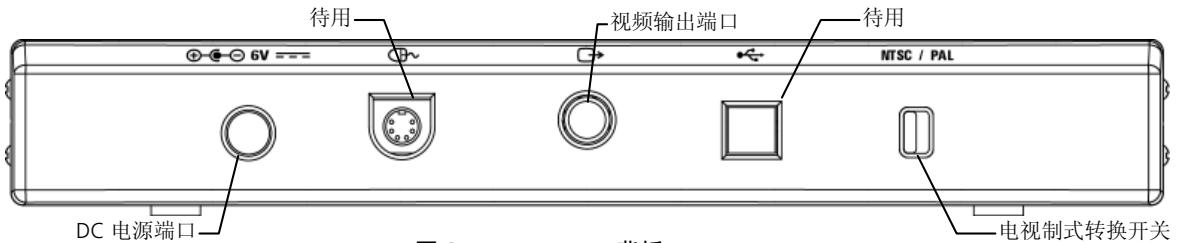
图 2. TI-Presenter 面板

图 3. TI-Presenter 背板

在设置您的 TI-Presenter 前，请确认计算器已关闭。

1. 将电线线接到 AC/DC 适配器上；

2. 将 AC/DC 适配器的另一端接到 TI-Presenter 上的 DC 电源端口；

3. 将视频电缆的一端连接到 TI-Presenter 的视频输出端口，电缆的另一端连接到:
   - 电视机**(仅对欧洲**，使用 SCART 适配器)的视频输入端口；
     -或-
   - VCR 的视频输入端口；
     -或-
   - RF 调制器。

   备注: 如您通过 VCR 或 RF 调制器来将 TI-Presenter 连接到电视机上时，连接说明请参阅制造商的使用手册。

4. 将计算器电缆上较大的连接器连接到 TI-Presenter 的计算器输入端口，将计算器电缆的另一端连接到计算器的 ViewScreen 端口。(欲决定使用哪种计算器电缆，请参阅第 4 页。)**请勿使用计算器的计算器与计算器连接电缆来连接计算器和 TI-Presenter**。

   备注: 计算器电缆连接器备有锁定功能，当您连接时，会听到 "click" 的响声。欲将其脱离连接，可轻轻按下连接器的边缘来松开。

5. 在 TI-Presenter 上，应适当地将电视制式转换开关设定在 **NTSC** 或 **PAL**。

6. 电源线插入墙壁插座内，电源指示器会闪烁一会，然后变成绿色。

7. 打开电视机并选择视频输出模式。大约十秒钟的时间，您会看到 TI-Presenter 的启动屏幕出现在电视机上。
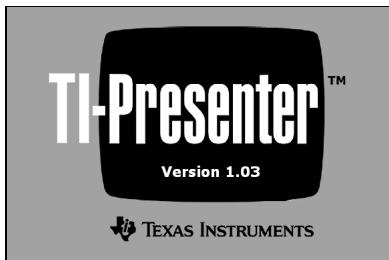
    备注: 或许您会首先看到 TI-Presenter 的运作繁忙屏。

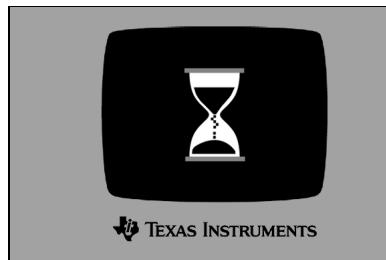图 **4. TI-Presenter** 启动屏幕   图 **5. TI-Presenter** 运作繁忙屏

8. 如有需要，可调整电视机的对比度。

    备注: 调整计算器的对比度不会影响电视机的对比度。

9. 打开 ViewScreen 计算器，TI-Presenter 会自动检查与其连接的计算器的型号。(检查和设置最多会需要 15 秒钟的时间，期间您会看到 TI-Presenter 的运作繁忙屏。)

    至此，您的 TI-Presenter 已就绪使用了。在某些计算器上，或许您需要按下 CLEAR 来使 TI-Presenter 与计算器屏幕同步。

注意: 当连接了 TI-Presenter 时，虽然计算器备有自己的电池，但还是使用来自 TI-Presenter 的电源。尽管如此，当您将计算器与 TI-Presenter 断开连接时，如计算器的电池低电量或计算器内没电池，您会丢失所有储存在 RAM内的数据。

Automatic Power Down™ (电源自动关闭)

在计算器进入 Automatic Power Down™(APD™-电源自动关闭)模式或与 TI-Presenter 断开连接后五分钟，TI-Presenter 也会进入 APD 模式。欲退出上述两设备的 APD 模式，可将计算器连接到 TI-Presenter 并按下计算器上的 ON 键。在某些计算器上，或许您需要按下 CLEAR 来使 TI-Presenter 与计算器屏幕同步。

Flash 升级

TI-Presenter 是利用 Flash 技术，如 TI 网址上备有的话，您可以升级您的 TI-Presenter 来获得最新功能而无须购买新的设备。升级的有关信息请访问 Texas Instruments 的网址:

http://www.ti.com/calc/presenter

欲升级您的 TI-Presenter，您必须具备一台 PC 或 Macintosh® 计算机和一条 TI-GRAPH LINK™ 电缆(另外供应)。请遵循网址上的指示来升级 TI-Presenter。

疑难解答

如在设置或操作您的 TI-Presenter 时遇到问题，请参阅此表:

问题	解决方法
电视机屏幕与计算器显示的内容(但不是启动屏幕或运作繁忙屏)。相异	• 按下计算器上的 [CLEAR] 键。 • 关闭计算器后再开启，重新开始您的输入。 • 确认计算器电缆连接器已完全插入计算器上的 ViewScreen 端口内。
计算器显示只占电视屏幕的四分之一(仅对 TI-89)。	按下计算器上 [2nd] 和 [MEM] 键。 按下 [F1] 来选择 Reset(重设)模式并选择 3: Default(默认)。
电视屏上无图象。	• 确认计算器电缆连接器已完全插入 TI-Presenter 上的正确端口内。 • 确认 TI-Presenter 上的电视机模式转换开关位于正确的位置。 • 确认电视机和 / 或 VCR 已开启。 • 确认 TI-Presenter 已开启。 • 确认电视机于视频模式。 • 关闭计算器后重新开启。 • 如上述操作毫无帮助，可将所有连接断开，然后遵循设置指示进行。
电视机屏幕空白。	TI-Presente 可能进入了 APD 模式。欲退出 APD 模式，可将计算器连接到 TI-Presenter 上(如此时还没连接的话)，并开启计算器。
电源指示器无法变成绿色。	确认电源线已全部插入 AC/DC 适配器和墙壁插座内。
TI-Presenter 上的电源指示器闪烁。	TI-Presenter 的基本码可能已损坏。请从 TI 网址中下载基本码(有关指示请参阅 TI 网址)。
电视机画面滚动。	确认电视机模式转换开关位于正确的位置。