

TVG 1.1 User's Guide

(Palm Edition)

Twin*com*

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Twin Communications of America, Inc.
2010 North First Street, Suite 404
San Jose, CA 95131-2039
USA

Telephone: (408) 572-0520

Fax: (408) 894-8116

Email: info@twincom.netURL: www.twincom.net*Revision: 3*

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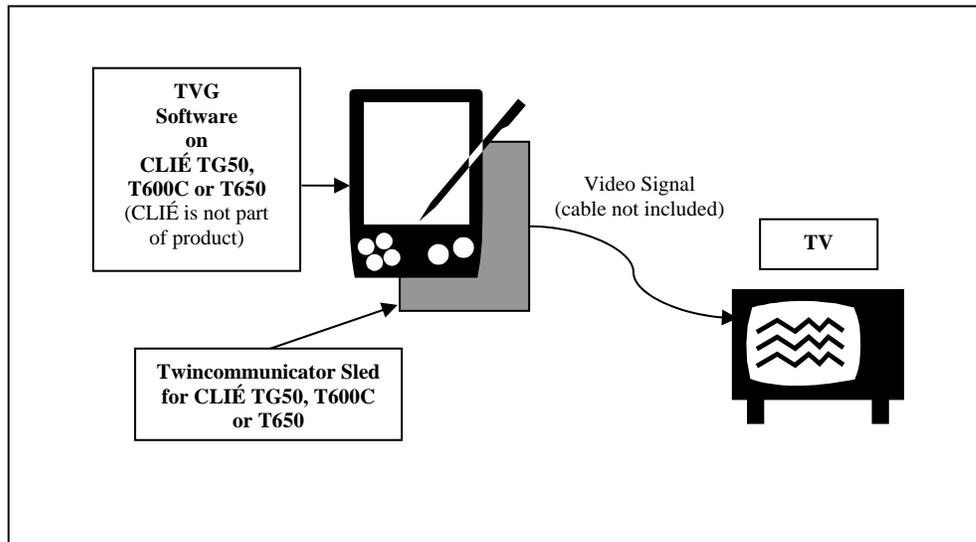
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Introduction to TVG and Twincommunicator

TVG application is software that is a part of Twincommunicator product. This application can drive Twincommunicator to generating different video signal patterns.

Twincommunicator Product Overview

Figure 1 – Twincommunicator Product Overview



System Requirements

- Sony CLIÉ Models: TG50, T600C, and T650
- Windows or Macintosh system for installing software of CLIÉ devices
- 20 MB of available hard disk space (For Palm Desktop and TVG software)
- Palm Desktop Software (with HotSync) for Windows or Macintosh for installing software on CLIÉ devices. You can get this software from Palm web site (www.palm.com or <http://www.palmone.com/us/software/desktop/>). For more information on HotSync setup, consult your CLIÉ manual

Installing TVG Software

1. If you already have data in your CLIÉ, you should perform a HotSync before installing TVG Software.
2. Use Palm Install Tool to install TVG.prc to the corresponding profile on your CLIÉ.
3. Turn on your CLIÉ and place it in its cradle.

4. Press the HotSync button on the cradle. The TVG software will be installed on your CLIE device.

TVG software is now installed.

Using TVG

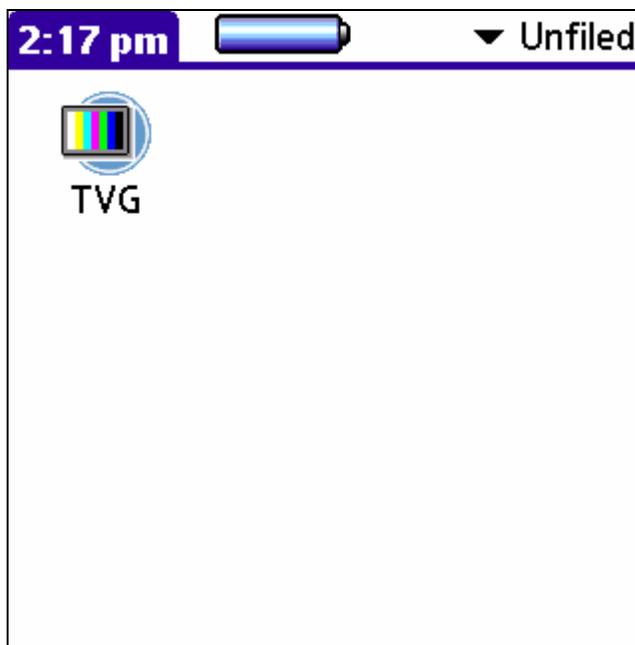
Launching TVG

There are two ways of launching TVG application: direct launch from Palm Launcher and launch from I2C Bus Monitor application.

Launching from Palm Launcher

After TVG software is installed, its icon will show up on your CLIÉ as shown in Figure 2.

Figure 2 – TVG Application

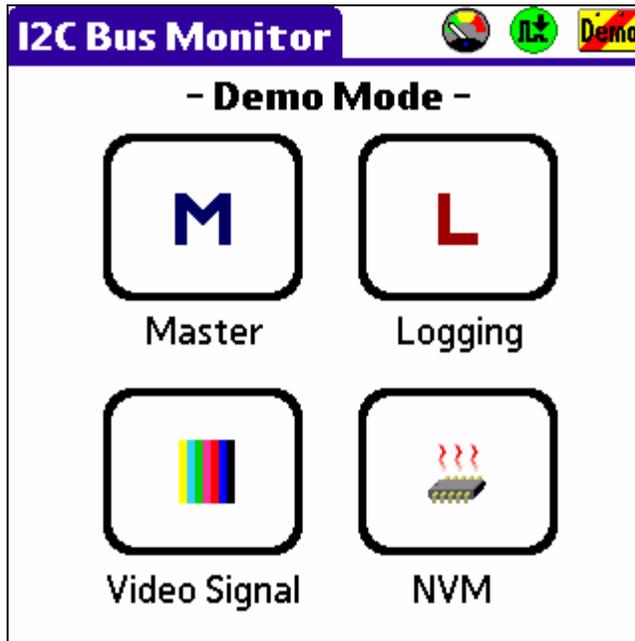


Tap the TVG icon to start the application.

Launching from I2C Bus Monitor Application

I2C Bus Monitor application will launch TVG automatically if TVG can be found on the device. I2C Bus Monitor main screen is shown in Figure 3 below.

Figure 3 - I2C Bus Monitor Main Screen



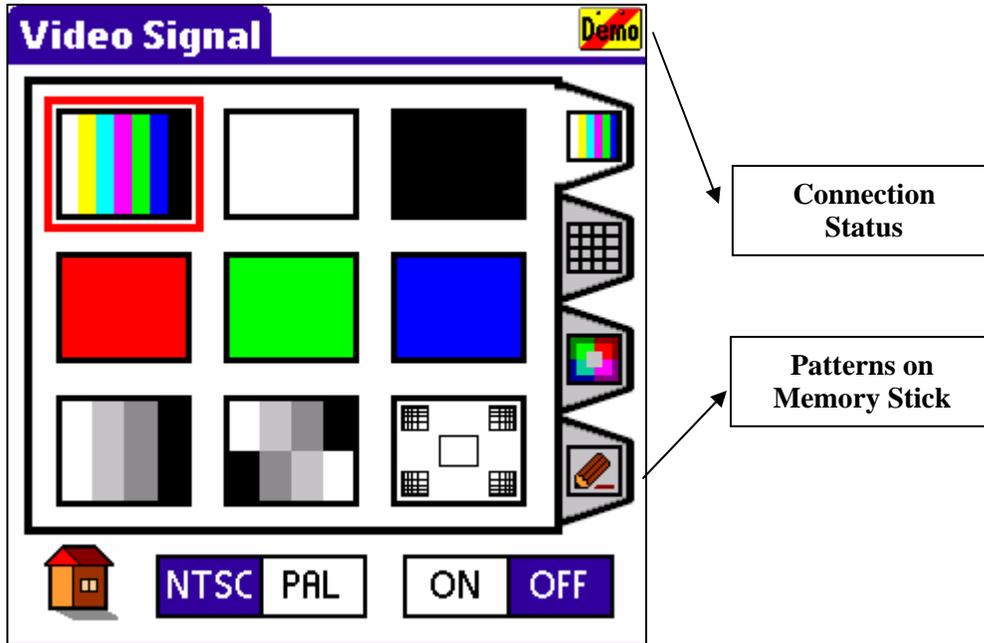
Tap on Video Signal button to launch TVG application.

I2C Bus Monitor application is a different Palm software that is also included in Twin Communicator product. This application interfaces with Twin Communicator hardware to manipulate and monitor I2C bus.

Please see "I2C Bus Monitor User's Guide" documentation to learn more about this software.

Main Screen

Figure 4 - Main Screen



Main Screen (Figure 4) is the screen displayed when you launch TVG application. On this screen, you can instruct Twincommunicator hardware to generate numerous test patterns.

Buttons

	This button shows up only when TVG is launched from I2C Bus Monitor. Tap this button to go back to I2C Bus Monitor application.
	Use this button to choose between NTSC and PAL video signal format
	Use this button to turn on/off video signal

Connection Status

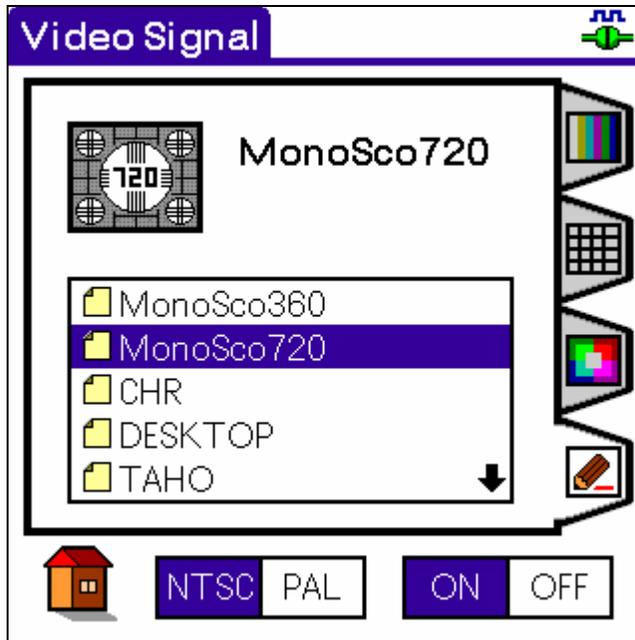
-  TVG detects proper connection to sled
-  TVG does not detect proper connection to sled
-  TVG is operating in demonstration mode

Accessing Pattern Files on Memory Stick

TVG version 1.1 supports custom pattern files loaded from Memory Stick. Use the “Memory Stick Tab” on the Main Screen shown in Figure 5 below.

TVG displays all valid pattern files in the attached Memory Stick on the screen. TVG will use the selected file to generate video pattern.

Figure 5 - Custom Patterns



If you are interested in creating your own test pattern, see Appendix B at the end of this document.

Configuring TVG

To configure TVG to your need, open the Settings Screen using the Settings menu as shown in Figure 6.

Figure 6 - Settings Menu

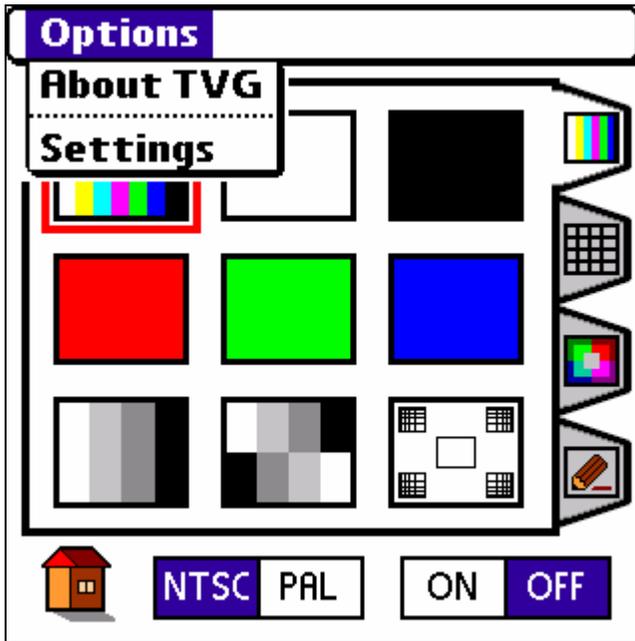


Figure 7 - Settings Screen



On the Settings Screen, you can specify whether to allow the device to auto-sleep or not.

Disable Palm's Auto-off

Use the checkbox to indicate whether the device is allowed to auto sleep or not. By default, this application does not allow CLIÉ to sleep. Uncheck this checkbox if you would like to allow CLIÉ to sleep after a period of inactivity. The inactivity interval is specified in the standard CLIÉ's preferences control panel. This application preserves CLIÉ's preferences, i.e. when you exit TVG application, the device sleep behavior resumes according to the settings on CLIÉ's control panel.

Appendix A – TVG Patterns

Below are all the built-in patterns supported by TVG v1.1:

Figure 8 - Pattern Set 1

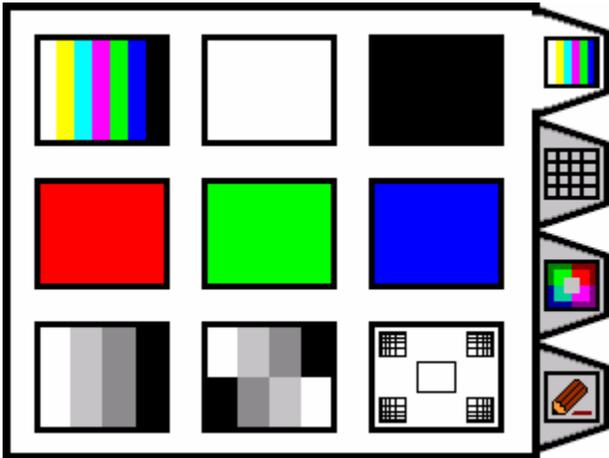


Figure 9 - Pattern Set 2

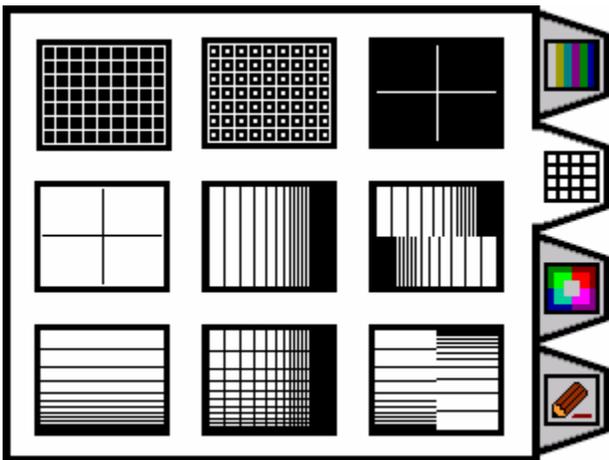
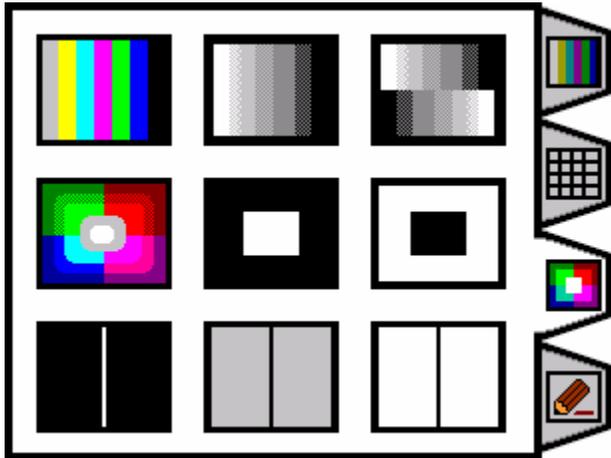


Figure 10 - Pattern Set 3



Appendix B – Creating Custom Pattern Files (For Developers Only)

TVG also supports loading and displaying custom patterns from Memory Stick.

This section explains in detail how to make custom pattern files for TVG. If you are interested in creating your own pattern files, please read this section.

A pattern is composed of a set of files. A complete set consists of 6 files. A complete set must adhere to the following naming convention:

Filename	Description
filename.tvg	Main controlling file. This is a text file that should contain a brief description of the set.
filename_pal.bmp	PAL definition file. This is a 24-bit bitmap file (Width = 720 and Height = 574) or (Width = 360 and Height = 287).
filename_ntsc.bmp	NTSC definition file. This is a 24-bit bitmap file (Width = 720 and Height = 482) or (Width = 360 and Height = 241).
filename_hr.bmp	High resolution icon for double density color Palm screen. This is a 24-bit bitmap file (Width= 68 and Height = 56).
filename_lr.bmp	Normal resolution icon for normal color Palm screen. This is a 24-bit bitmap file (Width = 34 and Height = 28).
filename_bw.bmp	Black and white icon for black and white Palm screen. This is a 24-bit bitmap file (Width = 34 and Height = 28).