





Twincommunicator

I²C BUS Monitor and Video Signal Generator

Ver. 1.01 8/11/2004

Twin Communications of America, Inc.

1. Basic Concept

1) Production

When products based on I²C BUS stop functioning due to bus troubles, it is reasonable to expect the possibility of large production and financial damages.

Timely recovery by finding and diagnosing the problem quickly is crucial.

2) Repair, Services

As home appliances tend to become bigger in size in recent years, repair services must be performed directly on-site at customer's homes. Repairing or servicing products with I²C BUS requires specific equipment. <u>A simple and practical tool is necessary to be used at home</u>.

- Easy to carry and light weight
- Low power consumption (battery operated)
- Inexpensive









<I²C BUS monitor>

 I^2C BUS Monitor supports $\ensuremath{\textbf{Master}}$ $\ensuremath{\textbf{Mode}}$ and $\ensuremath{\textbf{Slave}}$ $\ensuremath{\textbf{Mode}}$

Slave Mode

Data Logging Data on I²C BUS can be recorded by setting up Slave-Address and Sub-Address.

Master Mode

Setup specific registers

Read status registers

- Read data on NVM (non-volatile-memory)
- Write data on NVM (non-volatile-memory)

<Video signal generator>

Video signal generator built into I²C BUS Monitor can generate video patterns easily anywhere. This combined functionalities enables you to control I²C BUS and examine data efficiently as well. This convenient features is a major advantage, particularly for field tests and services as you no longer need to carry multiple heavy equipments with you.

Video Signal Generator

- Generates 27 video patterns
- Supports custom video patterns
- Controls I²C BUS with monitoring signals
- Supports both NTSC and PAL





WinCOM

3. < Feature 1> Enables You to Store Data in Memory Stick

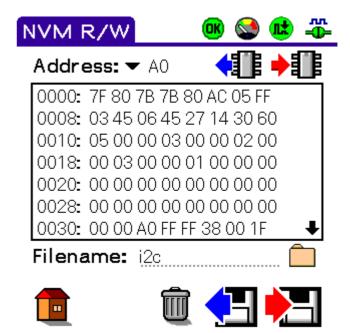


NVM contains important data related to results and setup. Effective reading and analyzing data on NVM on-site and off-site is very essential.

Twincommunicator enables you to read data on NVM and store them in Memory Stick. Twincommunicator enables you to write data from Memory Stick into NVM as well.

This feature allows you to store and reuse data easily. With the ability to store data on Memory Stick, you have the opportunity to further analyze the data recorded at customer's site at your office.





wincom

Easy and intuitive user interface

It has easy and intuitive user interface with touch panel and high density display (320 x 320 pixels). This results in drastic improvements in test efficiency and reductions of operational mistakes.

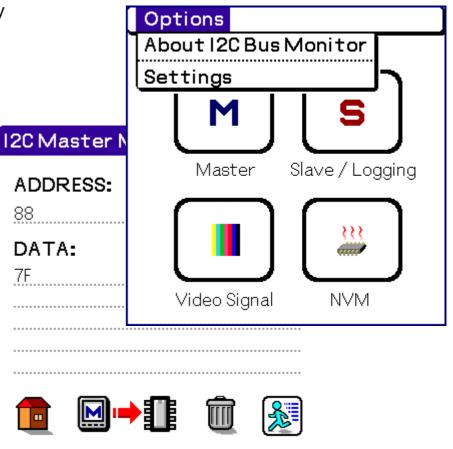
Battery operated (available anywhere)

With 4 AA batteries, the product can run continuously for over 8 hours. It does not require an AC power source.

Lightweight

Small, lightweight and fits in your pocket. Can be used anywhere.





Twincom

5. < Feature 3> Video Signal Generator with Advanced Features

27 video patterns

Supports 27 commonly used built-in video patterns.

Easy and intuitive interface

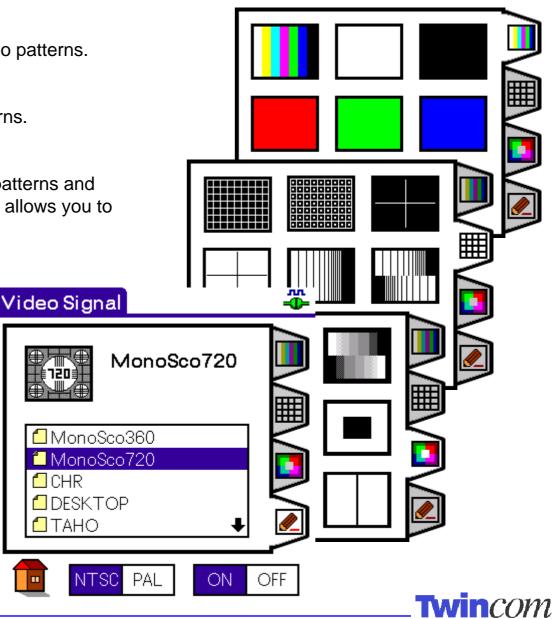
Simply tap icons to generate video patterns.

Creating original video patterns

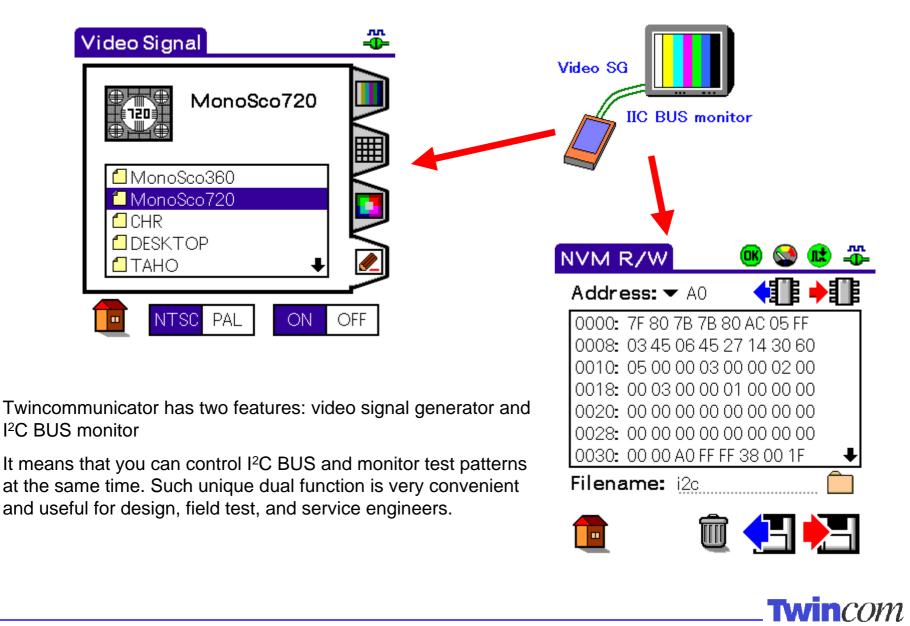
You can create your own custom video patterns and store them in Memory Stick. This feature allows you to create any kind of video patterns.

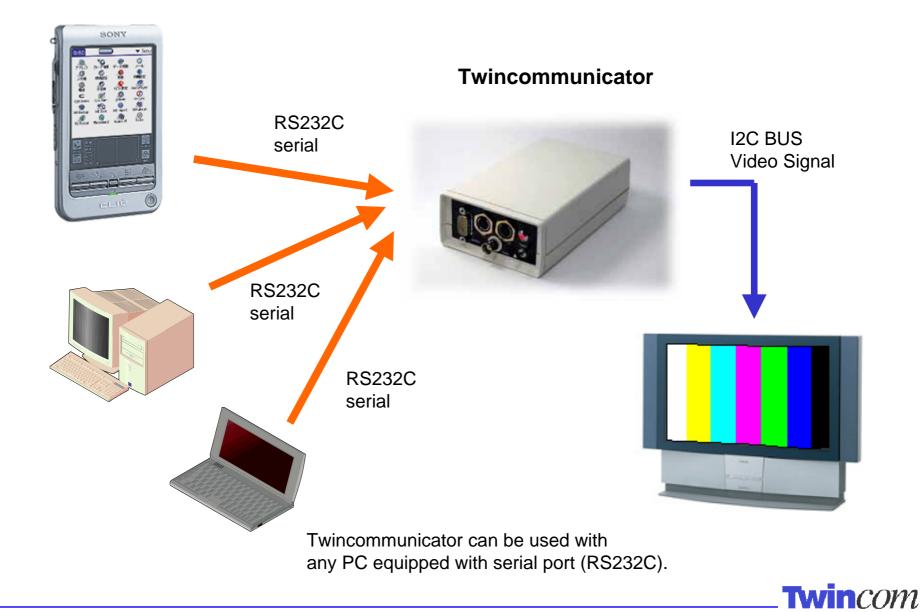
Supports both NTSC and PAL

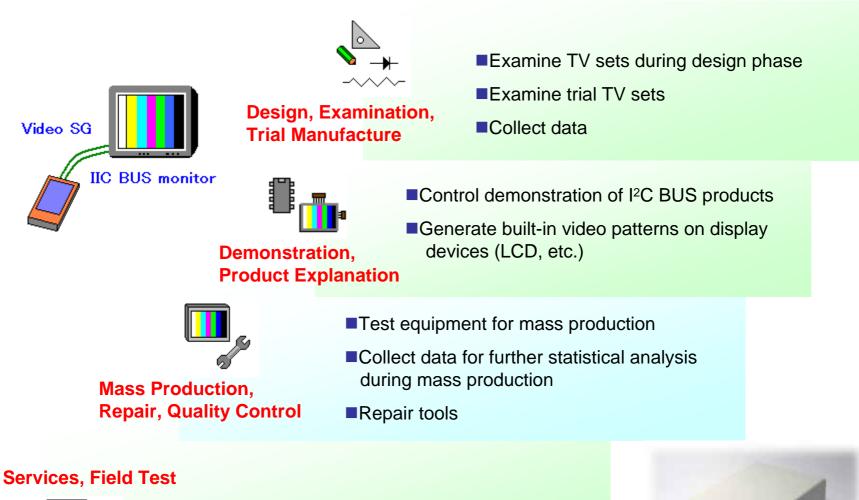
Generates both NTSC and PAL video signals.



6. < Feature 4> One Product with a Dual Role









- Can be used anywhere
- Find problems and collect data at client site

