TwinMOS Technologies Inc.

BooM2

Bluetooth 2.1ch Audio System for iPod®

User's Manual

Table of Contents

1   Getting started

- Package includes

1.	BooM System	x 1
2.	BooM Box	x 1
3.	IR Remote Control	x 1
4.	Bluetooth Audio Transmitter	x 1
5.	AC Adapter 100V ~ 240V, 50~60Hz	x 1
6.	3.5 mm audio extension cable	x 1
7.	RCA video extension cable	x 1
8.	AC Adapter 100V ~ 240V, 50~60Hz	x 1
9.	Power cable	x 1
10.	Europe plug adapter	x 1
11.	User's Manual	x 1
12.	Warranty Card	x 1

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

2 Device Elements

2.1 BooM System (BTTA01)
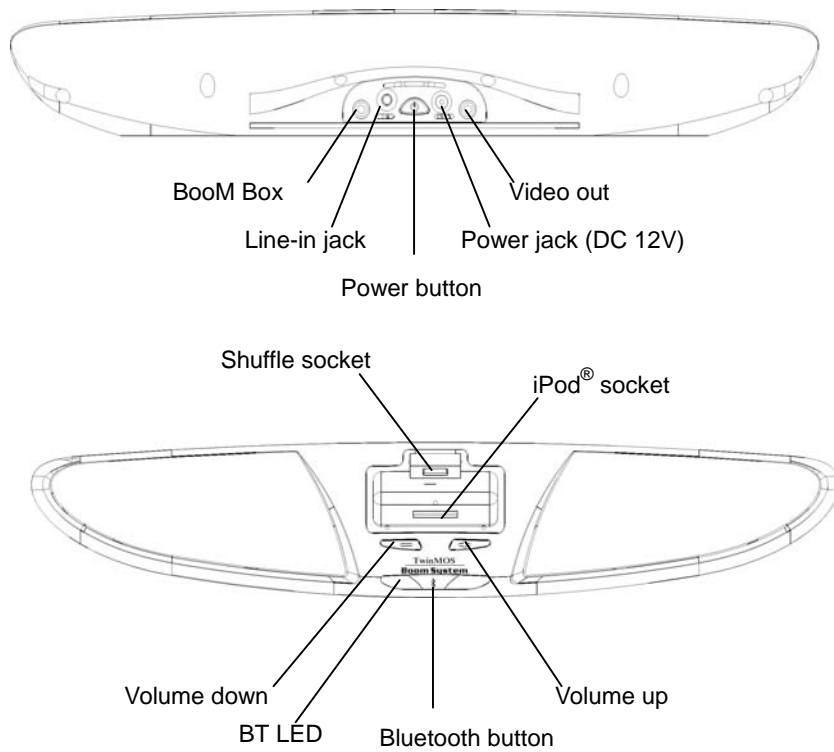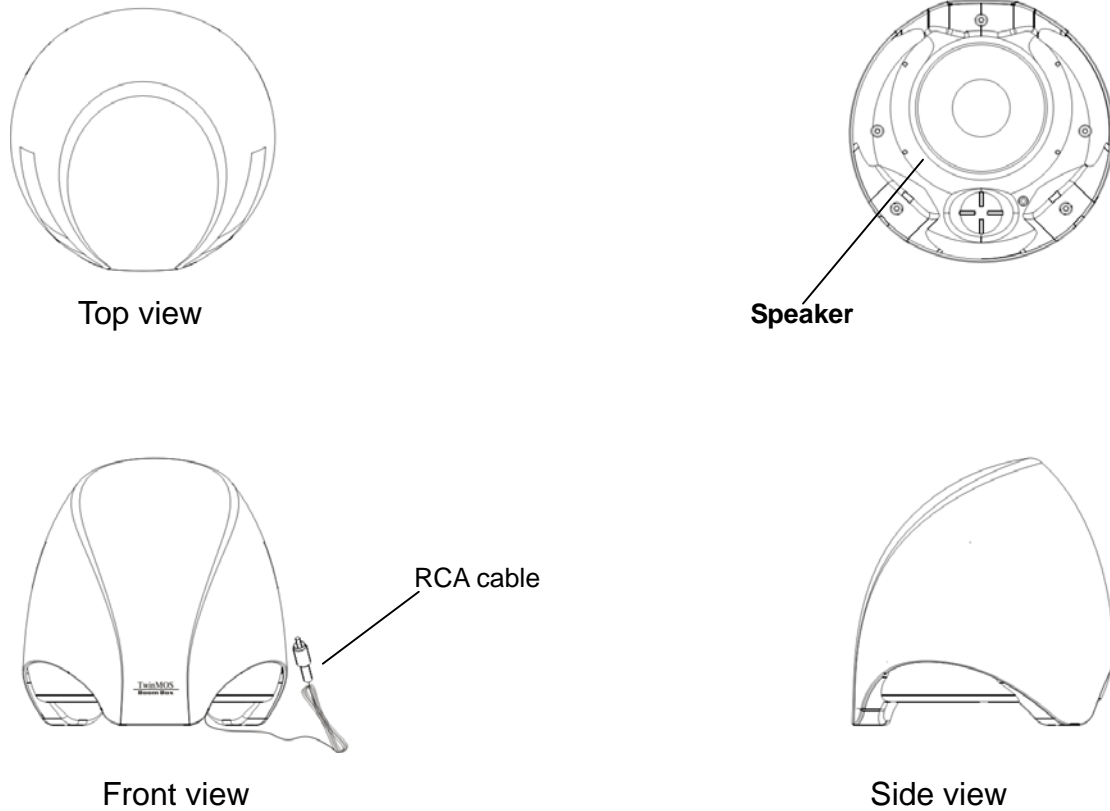
BooM Box
Line-in jack
Power button
Video out
Power jack (DC 12V)

Shuffle socket
iPod® socket

Volume down
BT LED
Bluetooth button
Volume up

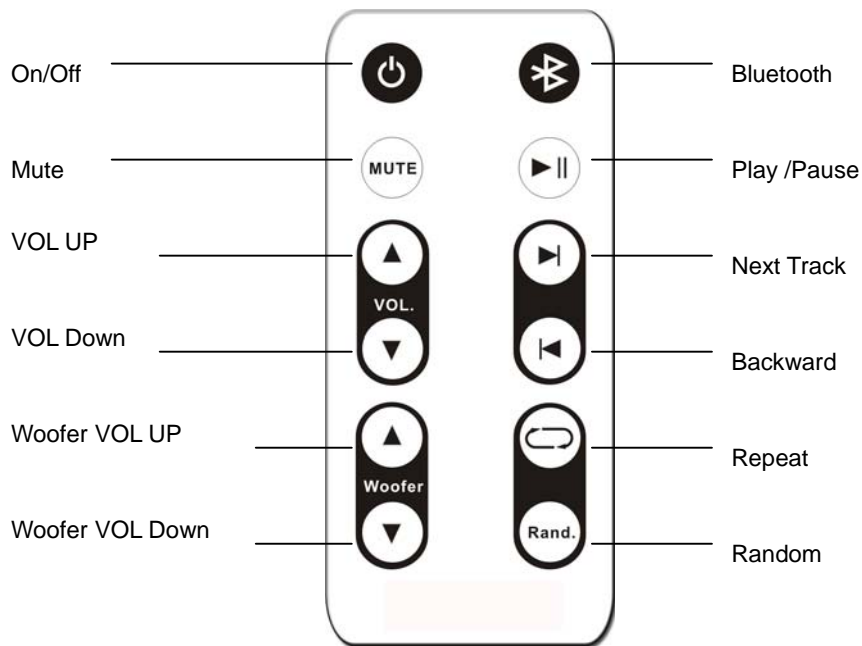### 2.2 BooM Box (IPTA02)

Top view

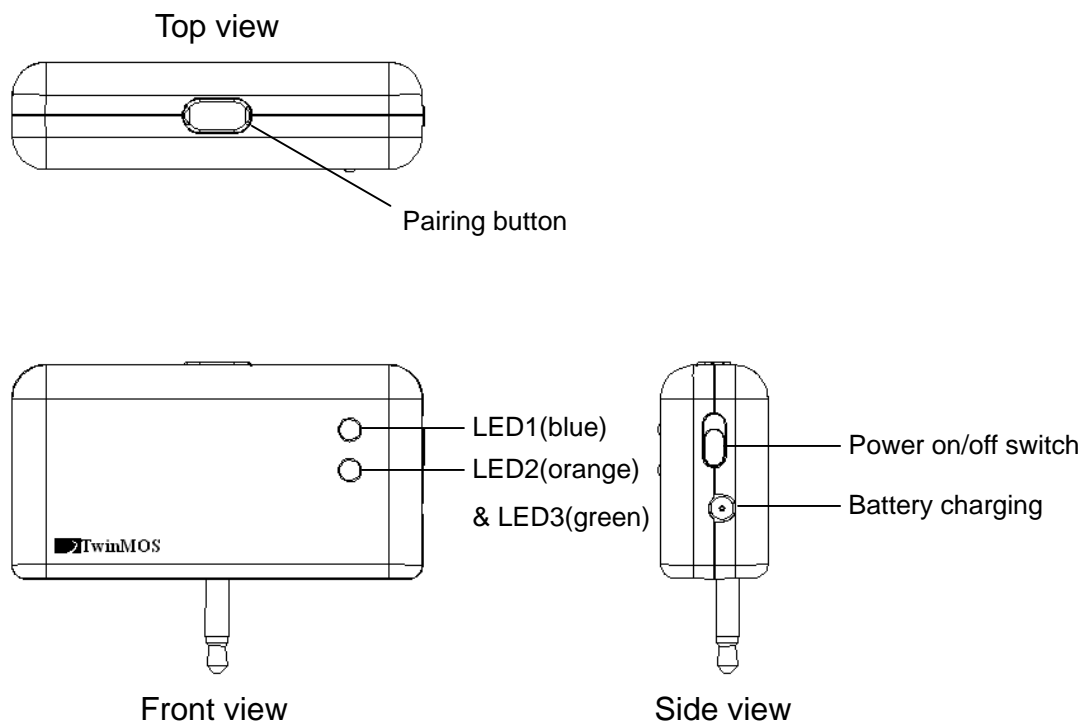**Speaker**

RCA cable

Front view

Side view

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

2.3   Remote Control
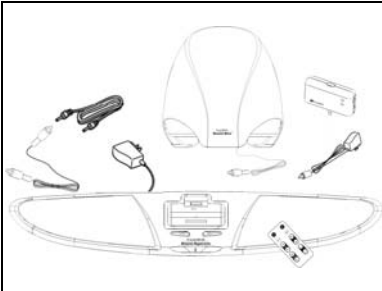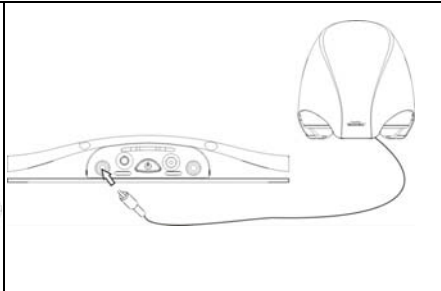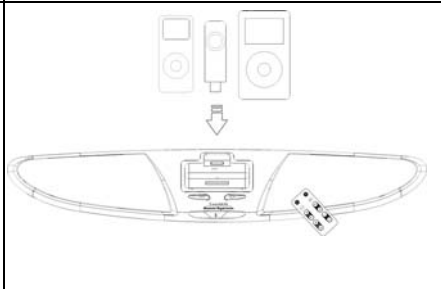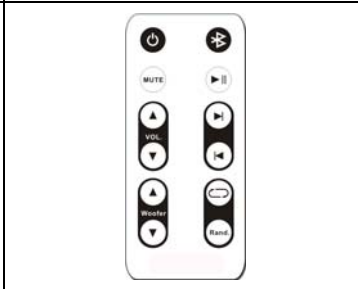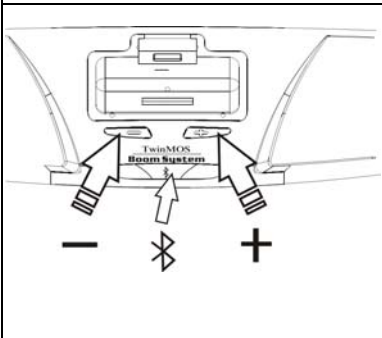
On/Off — Bluetooth

Mute — Play /Pause

VOL UP — Next Track

VOL Down — Backward

VOL.

Woofer VOL UP — Repeat

Woofer

Woofer VOL Down — Random

2.4   Bluetooth Audio Transmitter (BTT001)

Top view

Pairing button

LED1(blue)

LED2(orange) — Power on/off switch

& LED3(green) — Battery charging

TwinMOS

Front view   Side view

All specification and information are subject to change without further notice.
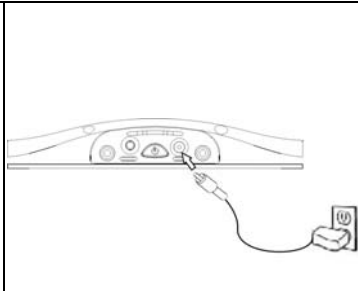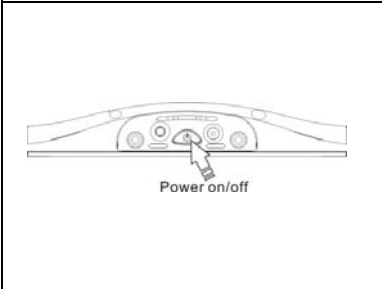iPod® is a trademark of Apple Computer, Inc.

3   System Installation

Unpack the BooM2 system and check if the package contains all the devices and accessories.	Plug the RCA cable of BooM Box into the "BooM Box" jack on the back of BooM System. (White RCA plug to white RCA jack.)	Connect the power adaptor to the "Power jack" of BooM System
Push the power button to turn on BooM System.	Insert your iPod$^®$s into the corresponding socket. Do not plug iPod® Shuffle and other iPod$^®$ devices at the same time.	Use IR remote control to operate iPod® and BooM System*. Press Bluetooth (⊗) button is to activate the Bluetooth function in BooM System.
Touch the buttons "+" (Volume up) or "-" (Volume down) to adjust volume. Push both buttons at the same time to mute the BooM System. Press ⟍⫟⟋ button is to activate the Bluetooth function of BooM System.	Connect the video cable (yellow RCA cable) to a TV Video-in to view photo or video on TV.(for iPod$^®$ Photo and Video series only, can't apply to iPod® Naro.)	You can also connect a MP3 player to the BooM System Via a audio extension cable. Be aware that other music player may perform unstable audio power output to this speaker system. Please use only ordinary mp3 players.

Notice:

☞   If a 3.5mm audio cable is plugged, the iPod$^®$ interface will be disabled and no sound is output to BooM.

☞   Remote control features apply to most models of iPod$^®$ except Shuffle.

☞   Hitting by abnormal electric shock from external power source, the sound of BooM will be diminished or mute. Please restart the BooM System upon such situation.
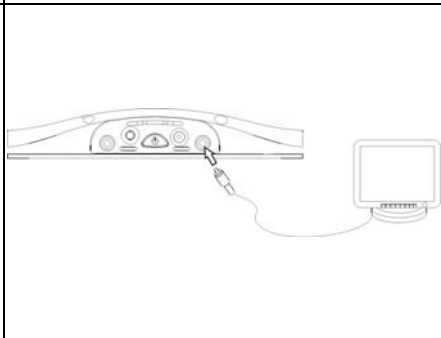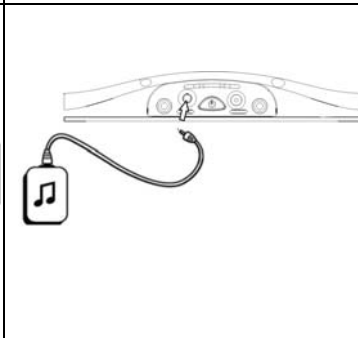
All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

4 Pairing and Linking Bluetooth

4.1 Setup Bluetooth link between transmitter and BooM2

4.1.1 Power on BTT001 and activate BTTA01 Bluetooth function via remote control or press button on BooM System.

4.1.2 The LED1 of transmitter and BT LED of BooM System will blink at low frequency. (1 Hz.)

4.1.3 For the 1st time usage, keep pressing the pairing button of BTT001 and wait the LED1 of BTT001 to blink at medium frequency.(2 Hz.) Both devices enter the pairing state and will start to setup link automatically.

4.1.4 After the link is established, the LED1 of BTT001 and BT LED of BooM2 start to blink at full speed. (4Hz.)

4.1.5 Plug BTT001 into the earphone jack of a MP3 player and enjoy the music from the BTTA01.

Notice :
☞ Bluetooth pairing is required only for the first time operation of both devices. After successful pairing, both devices will recognize and link each other automatically next time.

4.2 Setup Bluetooth link between BooM2 and A2DP-enabled Computers (PC, Notebook, PDA, or Mobile phone)

4.2.1 Activate the Bluetooth application program/function of your computers.

4.2.2 Search for BT device "TwinMOS Speaker".

4.2.3 Click link icon of the Bluetooth application program to pair the BTTA01.(BooM2 System)

4.2.4 If pairing code is required, please enter "0000".

4.2.5 The link will be set and the LED1 of BTTA01 will start to blink at full speed.(4Hz.)

4.2.6 Go to the device manager of the OS and redirect the speaker device to the Bluetooth speaker device. (For different Bluetooth application program, the device name will be different.)

4.2.7 Now, the sound of computer is aired to BooM System via Bluetooth connection.

Notice:
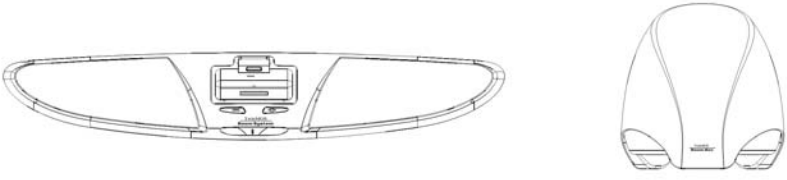☞ Regarding the operation of the Bluetooth application program in your computer, please consult your computer manual.

☞ Your computer, notebook, PDA and Mobile Phone must be Bluetooth 1.2 compliant and A2DP-enabled (Advanced Audio Distribution Profile) to transfer stereo audio stream to BooM System.

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

5 Specifications

5.1 BTTA01+IPTA02, BooM2 BT 2.1ch Audio System

Configuration	BTTA01(BooM System)+IPTA01(BooM Box)
Model	
Voltage input	100V~240V,0.8A,50~60Hz
Speaker output	BooM System – 8 watts per Channel BooM Box – 25 watts
Frequency Response	50Hz – 20KHz @ -3dB
THD%	0.1%
Signal to Noise Ratio	>80dB
Size	BooM System – 402 x80 x 57 mm BooM Box – 229 mm(diameter),232mm(high)
Weight	BooM System – 650g BooM Box – 2kg
Docking	iPod®G3/G4/G5,iPod®mini//nano/ *shuffle
Bluetooth Receiver	Build-in
RF	BT V1.2, Class II, 2.4GHz
Max. RF distance	50 feet/15 meter (open space)
Bluetooth Profile	A2DP (Advanced Audio Distribution Profile) Codec method: Sub Band Codec(SBC)
Antenna type	PIFA
Security	Pairing, Encryption, and Authentication
RF Power	RF output power 0 ~ 2 dBm
Frequency band	2402 – 2480 MHz
Modulation	FHSS(Frequency-Hopping Spread Spectrum)
Data rate	1 Mbps
Sensitivity	< 10^{-3}BER @-80dBm

* Remote control features apply to most models of iPod® except Shuffle.

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

5.2   BTT001, Bluetooth Audio Transmitter

BTT001	
General Factors	
RF	BT V1.2 Class II, 2.4GHz
Max. RF Distance	15 Meters in open space
BT Profile	A2DP (Advanced Audio Distribution Profile)
Data Rate	1 Mbps
Battery	1. Rechargeable Li+ Polymer Battery 2. Battery Life : 3 hours
Audio Interface	Std. 3.5mm analog Line-In for L/R Stereo
User Interface	

LED1(Blue)	Indicator for Power On, BT Pairing & Linking
	    Power on→ Blinking at 1 Hz
	    Pairing → Blinking at 2 Hz
	    Linking → Blinking at 4 Hz

LED2(Orange)	Shinning for low Battery

LED3(Green)	Indicator for Battery Charging :
	    On → Charging is progressing.
	    Off → Battery is full.

Pairing Button	Keep pressing to link with new BT device.
Power On Switch	Switch to turn on device.
Battery Charging Jack	3.0mm in diameter

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.   However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

-   Reorient or relocate the receiving antenna.
-   Increase the separation between the equipment and receiver.
-   Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-   Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.

TwinMOS BooM Series 1-year Limitd Warranty

This is important document. Attach your bill of sale to this card and keep it in a safe place. Your bill of sale is your warranty. The TwinMOS BooM series warranty remains ONE YEAR the day of the first consumer purchase.

Who is protected by this warranty?

The TwinMOS BooM Series warranty protects the original owner and all subsequent owners if the product is purchased via an authorized dealer.

What is covered by this warranty?

Except as specified below, The TwinMOS BooM Series warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification, or neglect; damage occurring during shipment; damage from failure to follow the setup instructions in the user's manual; damage resulting the performance of repairs by someone not authorized by TwinMOS; any claims based on misrepresentation by the seller. TwinMOS's liability is limited to the repair and replacement, at our option, of any defective product and shall not incidental and consequential damages. TwinMOS reserves the right to replace a discontinued model with a comparable model. Any replacement, accessories or parts may be new or rebuilt.

To obtain warranty service

If you need warranty service for TwinMOS BooM series products, please contact and ask for RMA numbers at our worldwide sales offices in the regions listed below.

TwinMOS Technologies Inc. (Taipei, Taiwan) 19F,No.90,Hsin-Tai Wu Rd., Sec,1, Hsichih, Taipei Hsien, Taiwan, R.O.C. 221(Hsichih Eastern Science Park Building C) TEL:+886-2-2696-3939	**TwinMOS Technologies (Shanghai) Co.,Ltd.** Building 1, No.115, Lane 572, BiBo Rd.,. ZhangJiang Hi-Tech Park, ShangHai Zip:201203 Tel:+86-21-50807998	**TwinMOS Technologies Inc. (India)Pvt,Ltd.** 412, Shakuntala Appartments, 59, Nehru Place, New Delhi-110019 Tel:+91-11-41306121-23
TwinMOS Technologies Japan Inc. 5F,Nisshon Nihonbashi Bldg., 10-18,Nihonbashi Tomizawa-cho Chuo-ku, Tokoy 103-0006 Japan Tel:+81-3-5643-3671	**TwinMOS Technologies Korea Inc.** No.1130 Hyundai World Tower 907, Mok5-dong,, Seoul, Korea Tel:+82-2-6678-0808	**TwinMOS Technologies (S) Pte Inc.** 175A Bencoolen Street No.05-09/10/11,Burlington Square Singapore 189650 Tel:+65-6337-7818
TwinMOS Technologies Middle East LLC The Attrium Centre, 7th floor, # 709, P.O.Box: 49740, Bur Dubai UAE Tel:+971-4-3528289	**TwinMOS Technologies Europe B.V.** Gyroscoopweg. 134-136 1042 AZ Amsterdam Tel:+31-20-5857157	**TwinMOS Technologies USA Inc.** 48521 Warm Springs Boulevard, Suite 317, Fremont, CA 94539 U.S.A. Tel:+1-510-490-3838

All specification and information are subject to change without further notice.
iPod® is a trademark of Apple Computer, Inc.