

MP3/VOICE RECORDING SUNGLASSES

INSTRUCTION MANUAL

TABLE OF CONTENT

I GENERAL DESCRIPTIONS-----	1
Basic Function-----	1
Accessories-----	3
II OPERATION-----	4
Button function overview-----	4
Function light overview-----	5
Power on/off-----	6
Mode switch-----	6
Playing MP3 music-----	7
Playing voice recording-----	7
Recording shortcut-----	8
Volume & music / recording control-----	8
Deleting music/voice recording-----	8
PC connection-----	9
Battery power Indicator -----	9
Battery recharging-----	9
III INSTALLATION-----	11
System requirements-----	11

USB connection-----	11
IV CAUTIONS-----	12
V HELPFUL TIPS-----	13
VI PRODUCT SPECIFICATIONS-----	14
WARNING STATEMENT-----	15

I GENERAL DESCRIPTIONS

Basic Functions

1. Playable music format: MP3/ WMA/ ADPCM
2. USB2.0 interface
3. Portable storage disk USB2.0 (full speed)
4. Playing function: Sequence, Repeat current track / recording, Random, Pause, Resuming
5. Delete (current track / voice recording)
6. Built in Microphone: ADPCM voice recording
7. Stereo earphone
8. Automatic detecting of battery voltage and power indicator
9. Power saving:
 - ※Automatic power off if no button pushed in 2 minutes under pause status
 - ※Automatic power off in 2 minutes when all tracks played
10. Battery: Rechargeable Li-ion battery (3.7V)
11. 4 LED lights:
 - POWER / USB Light: a) POWER light: lights up / power on; off / power off or no power

(also as battery power indicator) : lights up / full power; flashing per second / 1/5 power remained; flashing per 0.5 sec / out of power soon; off / out of power and automatic power off

b) USB light: lights up / in proper connection with PC.

MP3 Light (MP3): Lights up / MP3 mode; flashing per second / playing MP3 in Sequence; flashing per 0.5 sec / playing MP3 in Random.

REC light (voice recording / playing): lights up / playing mode of voice recording; flashing per second / playing voice recording; flashing per 0.5 sec / recording.

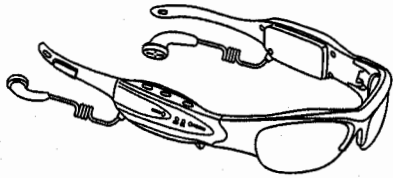
CHARGE light (recharging): lights up / recharging; off / recharging over.

12.5 buttons:

ON/OFF / ►/ 	---- power on / power off / play / pause
REC/MODE	---- recording / playing MP3
VOL +/►►	---- increase volume /forward
VOL -/◄◄	---- decrease volume /reverse
RANDOM/DEL	---- play in random / delete

Accessories

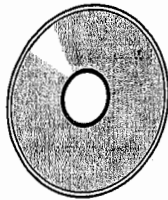
Below is the standard accessories in the packing, please check if it is complete



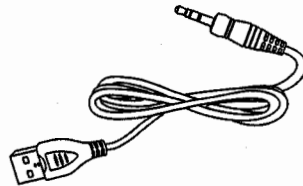
MP3 sunglasses



Instruction Manual

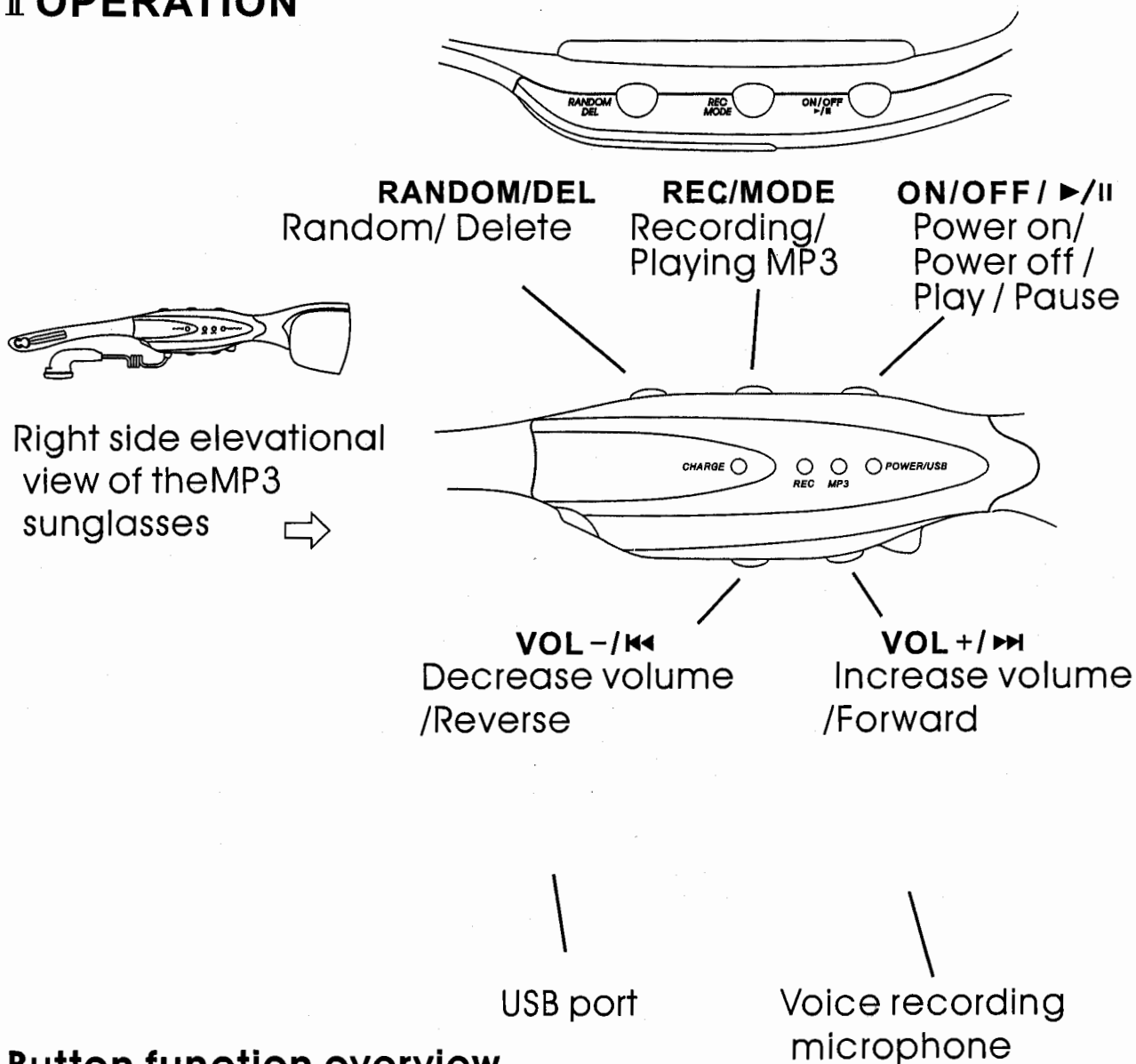


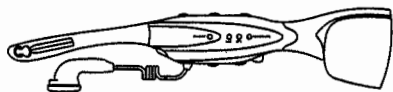
Installation CD



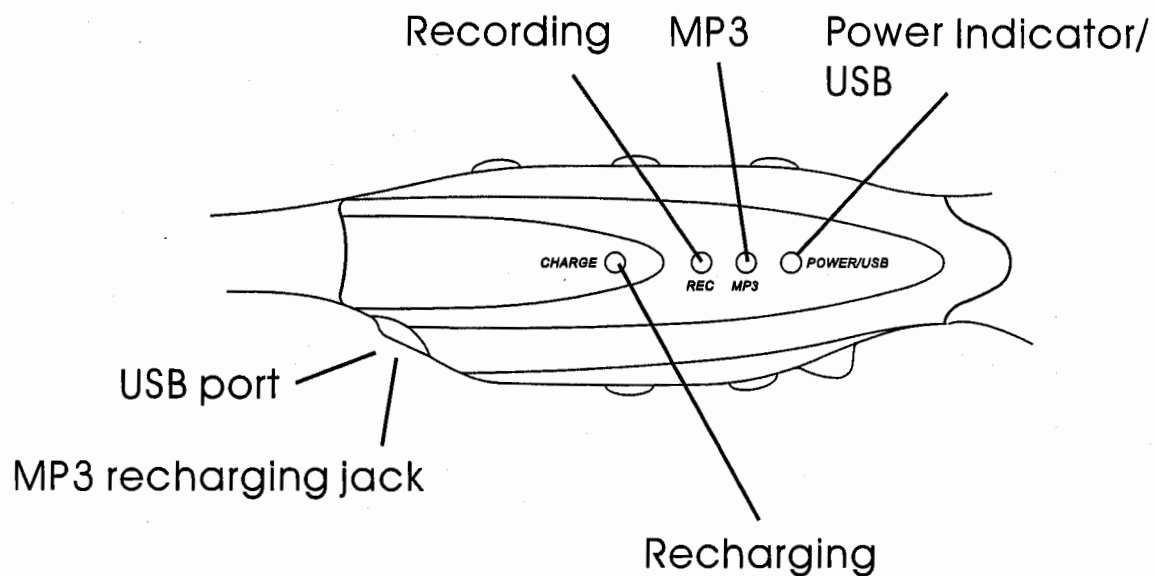
USB extension cable

II OPERATION





Right side elevational
view of the MP3
sunglasses



Function light overview

Power on/ power off

Press button **ON/OFF / ►/||** momentarily power light up, power on

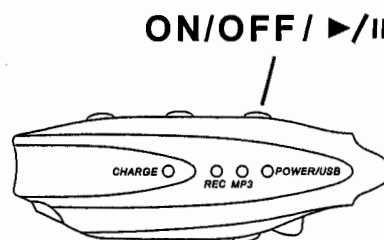
Press and hold button **ON/OFF / ►/||** for 3 seconds-power off

※Note: default mode when power on

1) MP3 playing mode, MP3 light lights up.

2) Equalizer mode, same as when power off last time.

3) Play the last track of voice recording once motivated.

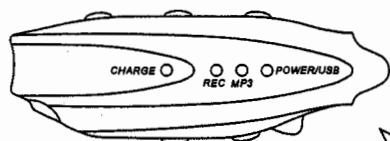


Mode switch

Under pause status of MP3 playing/ voice recording playing or when voice recording is stopped, press button on /off momentarily to switch between the following modes:

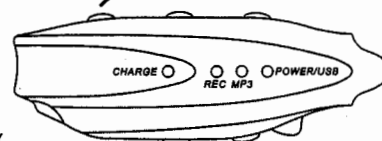
Playing recording mode

Press **REC/MODE**
momentarily

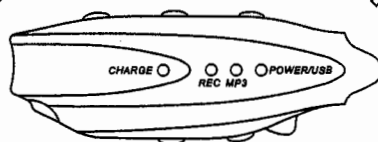


MP3 random mode

Press **RANDOM/DEL**
momentarily



MP3 regular mode

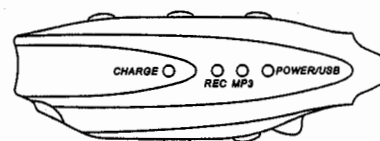


Playing MP3 music (under MP3 mode)

Press **ON/OFF / ► / ||** momentarily----play,
MP3 light flashing

Press again **ON/OFF / ► / ||** momentarily----
pause, MP3 light lights up

ON/OFF / ► / ||

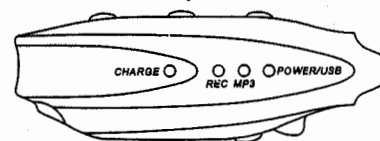


Playing voice recording (under recording playing mode)

Press **ON/OFF / ► / ||** momentarily----play, PLAY
REC light flashing

Press again **ON/OFF / ► / ||** momentarily----
pause, PLAY REC light lights up

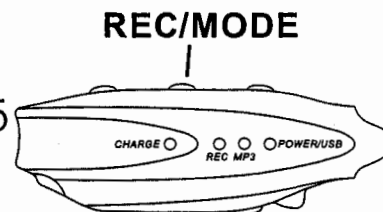
REC/MODE



Recording shortcut (under playing recording pause or playing MP3 pause status)

Press **REC/MODE** and hold for 3 seconds-----
recording starts, REC light flashing per 0.5
second

Press again **REC/MODE** momentarily----- record-
ing stops



Volume & music/ track or voice recording control (under music playing or voice recording mode)

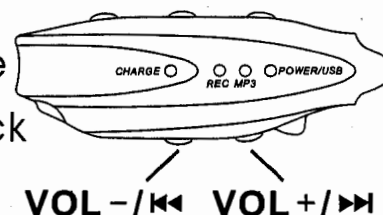
Press **VOL +/▶▶** and hold----- increase volume

Press **VOL +/▶▶** momentarily-----play next track
(music/recording)

Press **VOL -/◀◀** and hold-----decrease volume

Press **VOL -/◀◀** momentarily(1) play previous track (music/
recording) if pressing within 5 seconds after playing

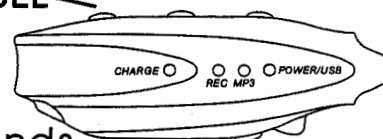
(2) Replay the current track (music/ recording) if pressing after
playing 5 seconds



Deleting music/ voice recording

Press and hold button **RANDOM/DEL** for 2 seconds
delete the current track (music/ voice recording)

RANDOM/DEL

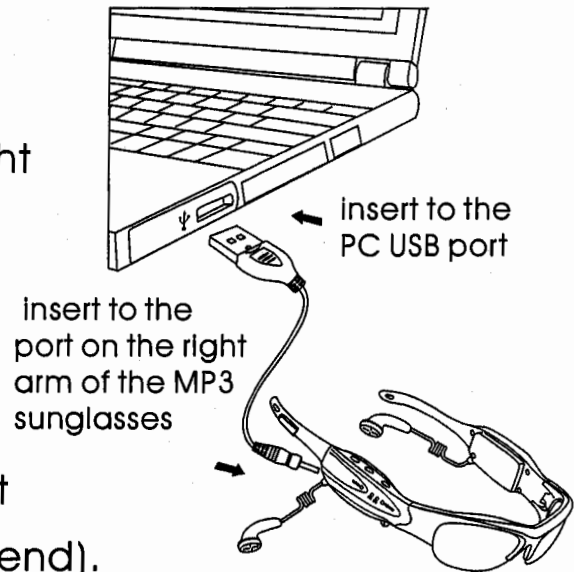


PC connection

1. Connect the MP3 sunglasses by the USB jack on the right temple to PC through USB line. POWER/ USB light lights up when connecting.

2. Flashing POWER/ USB light means data in transmission (BUSY); lighted POWER/ USB light means standby status (idle); dead POWER/ USB light means disconnected with PC (suspend).

3. Remove the sunglasses from the PC as per PC's requirement when upload and download completed.



Battery power indicator

Power indicator (POWER light): lights up full power

Flashing per seconds/1/5 power remains

Flashing per/0.5 second out of power soon

Off/out of power and automatically power off

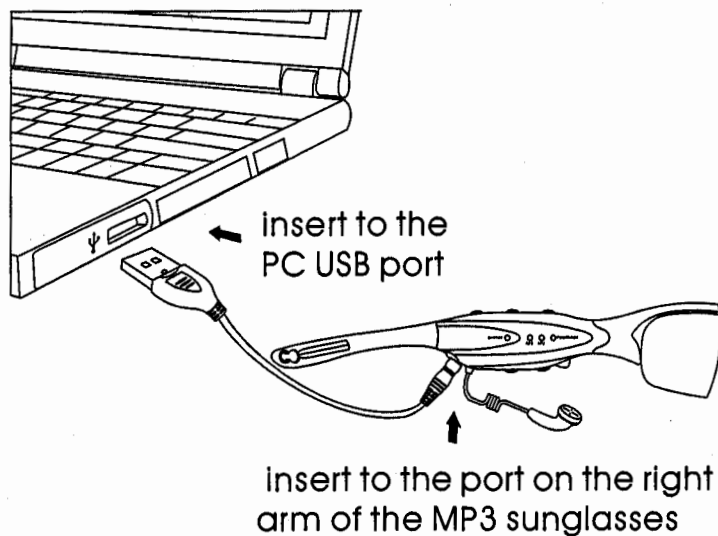
Battery recharging

Recharging is needed when power indicator (POWER light) is

flashing per 0.5 second or off.

1. Connect the eyeglasses to PC through USB cable for recharging (ref. To Figure 'Battery recharging').
2. Recharging light (CHARGE) lights up-under recharge
3. Recharging light (CHARGE) lights weak-slow recharge
4. Recharging light (CHARGE) off-recharge finished

※NOTE: a) the battery will be recharged slowly when close to full power and the product can work by then. b) output voltage should be $5V \pm 0.25V$, when recharging the MP3 output electric current $\geq 500mA$.



III INSTALLATION OF DRIVER

System requirements

IBM compatible personal computer

Pentium 1 66 MHz MMX or faster

Windows 98SE / ME / 2000 / XP

USB port (Universal Serial Bus)

Mac Os X / Mac Os 9.0

64MB RAM or more

20MB free hard-disk space or more

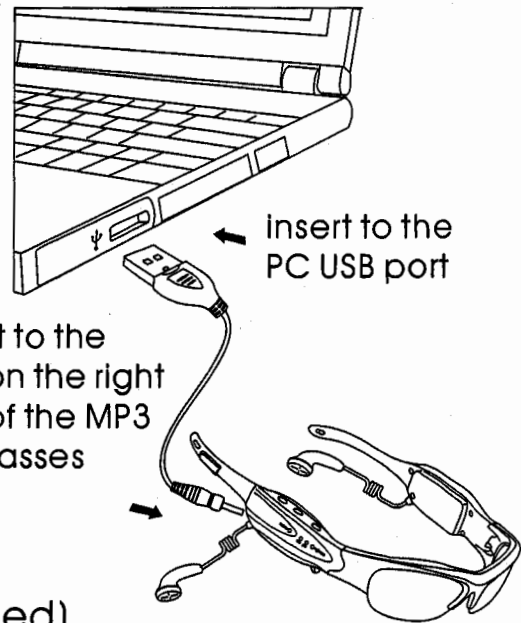
4×CD-ROM drive or more

Accessible to Internet (Recommended)

※Note: User name has to be set as administrator under Windows 2000

USB connection

- 1.USB port on your PC is used for sending files.
- 2.Check the USB port on your PC referring to its hardware instruction manual.
- 3.USB light and CHARGE light are lighted when the product connected to PC through USB port.
- 4.Under Win98 SE make sure the driver MP3 Player enclosed in the packing is successfully installed before connecting the product to PC.



IV CAUTIONS

1. Do not disassemble or change any part of the product that is not mentioned in this manual.
2. Do not pull or plug the product with wet hands, which may cause short circuit of the product.
3. Do not expose the product to fire or excessive heat.
4. Do not expose the product to electromagnetic wave circumstances, which may cause malfunction or data transmitting error of the product.
5. Ensure the USB plug is dry before connecting to computer to avoid damage by moisture.
6. Recharge the battery after power drained to prolong the battery life.

V HELPFUL TIPS

Problem	Analysis	Solution
Unable to play MP3	Battery low	Recharge the battery
	Not standard MP3/WMA files	Download standard MP3/WMA files
Unable to download music	USB cable broken or not connected properly.	Check the USB connection and reinsert
Unable to do voice recording	No space for more recording files	Delete some old recording files
No Drive Letter	The USB plug not connected or loose.	Check USB connection
	The Manager Software not installed successfully.	Reinstall the Manager Software
	The PC motherboard does not support USB port.	Upgrade the motherboard driver
Sound skips	MP3 file made at compression level exceeding 320kbps.	Using lower compressing level to record the file into MP3 format.
	Electrical interferences from other appliances like mobile phone, fluorescent lamp, bulb and high voltage wiring etc.	Move away from source of electrical interference
Buttons unworkable	Product fails to work properly	Press buttons of VOL -/◀ and RANDOM/DEL Together to reset

VI PRODUCT SPECIFICATIONS

Built in memory: 32MB/64MB/128MB/256MB/512MB/1G flash

Port: standard USB port

Battery: 230mAh/3.7V macromolecule polymer Li-ion rechargeable battery

Recharging time: 2 hours for fully charged

Battery playtime: 8 continuous hours with fully charged battery

Voice recording time: 2hours/32MB, 4.5hours/64MB, 9hours/128MB, 18hours/256MB, 36hours/512MB, 72hours/1G

Music playtime: WMA format (64Kbps): 1hours/32MB, 2hours/64MB, 4hours/128MB, 8hours/256MB, 16hours/512MB, 32hours/1G

MP3 format (128Kbps): 0.5hours/32MB, 1hours/64MB, 2hours/128MB, 4hours/256MB, 8hours/512MB, 16hours/1G

S/N Ratio: 80dB

Working temperature: $-5^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Earphone Output: 5mW+5mW

Frequency response: 20Hz ~ 20KHz

Sampling frequency of voice recording: 8KHz

Compression level: 32Kbps ~ 320Kbps

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.

NOTE:

1. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the User's authority to operate the equipment.

2. 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 or more 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.