

NOTE

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.

NOTE

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.

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.



<http://www.ggkaiser.com>

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User Manual



digital
MP3
Player

Digital Portable AUDIO
KOMACHO-M

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1. Getting Started

Product Features

Hard Drive

This is a convenient function where the unit can be connected to a PC by a USB cable, creating a 'Removable Drive' that can be used like a regular hard drive.

Recording

Records in MP3 format to store and playback.

Lecture Study

Five playback speed variable adjustments & sectional playback functions for helpful lecture use.

Real Time MP3 Encoding

Output from CD audio can be converted into MP3 format, stored, and played back by connecting the LINE IN port, without the need of a PC.

Multi-format Digital Audio

Supports storage and playback of MP3, WMA, GVF, and ADPCM file types.

GVF Format

As a format designed exclusively by GGKAISER for voice files, GVT offers high audio quality and output rate of 6KBit.

FM Radio Reception & Recording

FM radio signals can be received and directly recorded in MP3 format.

Multi Lingual Supporting Graphic LCD / Built-in Backlight

Supports multiple languages, and current statuses can be easily verified through the built-in EL BACKLIGHT.

VAD (Voice Activity Detection)

Records only when sound is detected and pauses when sound is not detected any longer: this function minimizes file size and reduces memory use.

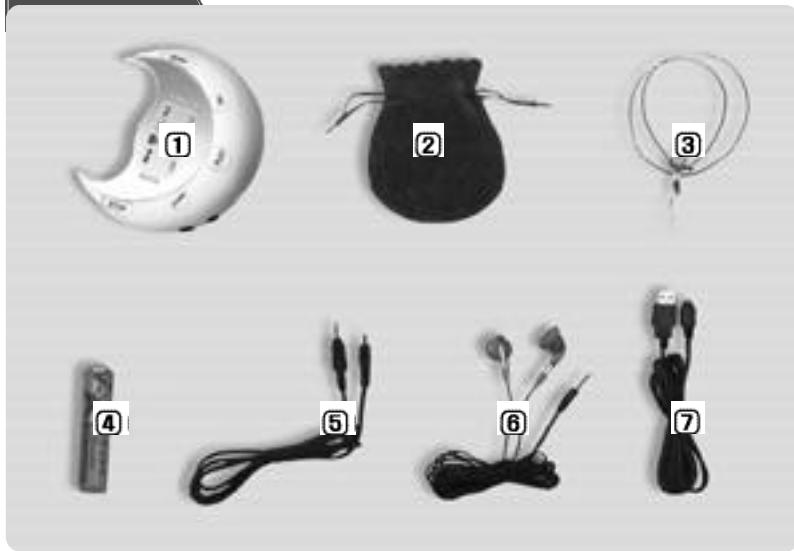
Variable Bit Rate Configuration

This function allows the user to adjust the bit rate during sound or LINE IN recordings, adjusting sound quality and effectively managing memory.

Firmware Upgrade Support

This function connects to GGKAISER's website and downloads the latest software version to keep your unit updated.

Enclosed Items



1. KOMACHO-M

4. 1 X AAA Battery

2. Carrying Case

5. A/V Cable

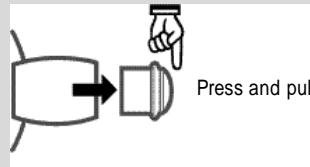
3. Neck Strap

6. Earphone

7. USB cable

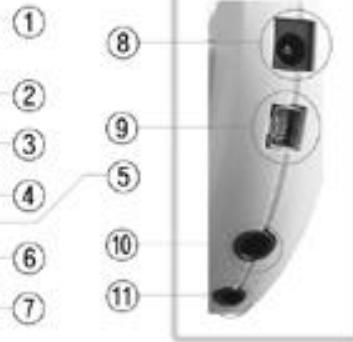


Using the Neck Strap



Press and pull to remove.

Overview



- 1. MODE button
- 2. UP button
- 3. LCD
- 4. PLAY button
- 5. Internal Mic
- 6. DOWN button

- 7. STOP button
- 8. DC port
- 9. USB port
- 10. Earphone port
- 11. LINE-IN port

Inserting Batteries



- Open the cover on back of the unit and place AAA batteries.



Warning! Always check the +/- markings on the batteries when inserting them into the player.

Getting Started

- Before using the player, connect to the download site in GGKAIER 's homepage (www.ggkaiser.com) and download/install a USB driver compatible with your PC. (Refer to the Installing USB Driver section of this manual)



Installation is required for WIN98/SE only. WINME/ WIN2000/XP will automatically install without prompting.

- Insert batteries into the player, then press the PLAY button to power it on.
- Connect the PC and the player via a USB cable. ('Mass Connect' will display on the LCD)
- Access the ' My Computer ' folder to find a newly created ' Removable Drive. ' Use in the same manner as a regular hard drive to quickly and conveniently up/download music files.
- Disconnect the USB cable.
- Press the PLAY button to playback music.
- Connect the earphone to the player and enjoy high quality music!

2. Basic Functions



■ Powering ON

To power on, hold down the PLAY button for 1 to 2 seconds.

■ Powering OFF

To power off, hold down the STOP button for 3 seconds. The LCD will indicate 'Power Off,' and the unit will power down.



The player will not power down if it is connected to a PC via a USB cable.

The player will power down automatically if no input has been made in 2 minutes under STOP mode.



■ Volume Control

Press the MODE button while in PLAY mode to have VOL indicated on the LCD. Adjust the volume by pressing the UP/DOWN buttons.



■ Equalizer

Press the MODE button while in PLAY mode to access the Equalizer function. Select a preset (Rock, Classic, Jazz, Pop, and Norm) by using the UP/DOWN buttons.



■ Bass Control

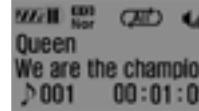
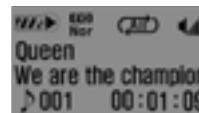
Press the MODE button while in PLAY mode to have BASS indicated on the LCD. Adjust the -10 to 10 pressing the UP/DOWN buttons



■ Treble Control

Press the MODE button while in PLAY mode to have TREBLE indicated on the LCD. Adjust the -10 to 10 pressing the UP/DOWN buttons

3. Playback Mode



■ Playing Back

Press the PLAY button while the power is ON to start playback.

■ Track Selection

Press the UP/DOWN buttons while power is ON to select track.

■ STOP/PAUSE

Pressing the STOP button while in PLAY mode will stop playback. Pressing the PLAY button while in PLAY mode will pause playback.

■ REPEAT Mode Configuration

Press the MODE button while in PLAY mode to convert to RPT mode. Select by using the UP/DOWN buttons.

4. Portable Language Lab

■ 5 Speed control



Play a random track and stop



Play once and stop



Repeat selected track



Repeat only the tracks in selected folder



Repeat all tracks



■ Adjusting Playback Speed

Press the MODE button in succession in PLAY mode to access SPD. Press the UP/DOWN buttons to select from five playback speeds (SLOW1, SLOW2, SLOW3, SLOW4, and NORMAL). When the desired speed is indicated, the unit will perform playback in that speed without having to press any buttons.

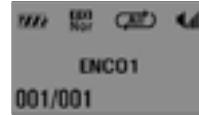


■ Sectional Repeat

When in [A - B] mode during PLAY mode, press the MODE button at the desired starting point of the section to be repeated. [A - B] will indicate and pressing the UP button will start playback, indicated by the blinking [A - B] icon

Press the UP button again at the end point of the section. The [A - B] icon will seize to blink and sectional repeat will start.

To cancel the selected repeat section, press the STOP button. Sectional repeat will cancel as indicated by the disappearance of [A - B], and normal playback will resume.



■ Record Stop

Press the STOP button when recording is completed to stop it.

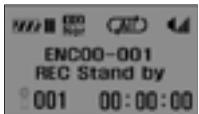
■ Selecting a Recorded File

Use the UP/DOWN buttons as would when searching for tracks to select a recorded file.

■ Playing Back a Recorded File

Press the PLAY button after making a selection to listen to the recording.

5. Recording



■ 1) Quick Record

Pressing the MODE button for two seconds in STOP mode will access the RECORD mode and the REC Stand by status. Pressing the STOP button will create file designations in ENC01.02 order and the files will be stored.



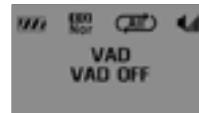
Before recording, the following options necessary in recording must be configured by pressing the MODE button in STOP mode:

- VAD
- Source
- BIT RATE
- Mute Level
- Sampling Frag
- MPEG Mode
- Channel Mode
- Recording
- method can be set.



■ Record Pause

Pressing the PLAY button while recording will pause it. Pressing it again will resume recording.



■ Configuring VAD (Voice Activity Detection) Recording

VAD records only when sound is detected and pauses when sound is not detected any longer: this function minimizes file size and reduces memory use

Press the MODE button in STOP mode to select 'VAD OFF.' Use the UP/DOWN buttons to select VAD ON/OFF.



VAD OFF : Normal recording mode that records all silent sections as well

VAD ON : Memory saving mode that only records sections with sound

■ Recording Quality (Bit Rate)

Record file's bit rate can be adjusted to suit recording purposes (extended recording, high quality, and etc.). Lower bit rates allow longer recordings but fall in record quality. Higher bit rates allow higher recording quality but fall in record length.



■ VOICE Bit Rate Adjustment

Select ' Bit Rate 32kbps ' by pressing the MODE button in STOP mode. Select a bit rate value using the UP/DOWN buttons.



Record Lengths by Bit Rate Levels (based on 128MB memory capacity)

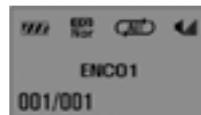
Bit Rate(Kbps)	08	16	24	32	40	48	56	64	80	96	1125
Minute	2106	1080	720	540	432	360	312	270	216	180	156

For general use, please select 32kbps



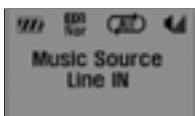
■ Pausing LINE-IN Recording

Press the MODE button while recording to pause.

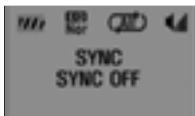


■ Ending LINE-IN Recording

Pressing the STOP button to complete the recording process will display the number of file (ENC01...) recording has been made onto and that file will be stored in memory.



2) LINE-IN Recording Mode

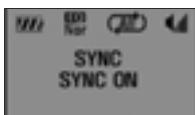


■ LINE-IN Recording Configuration

Press the MODE button in succession in STOP mode to access Music Source. Pressing the UP/DOWN buttons will display ' Line-in ' on the LCD. Connect the LINE-IN cable and long-press the MODE button to begin recording.

SYNC OFF: Records from start of LINE-IN recording until the STOP button has been pressed as one single file.

SYNC ON: Automatically divides LINE-IN source tracks to record each section as a separate file



■ Configuring Silence Detection Level

This is used to configure the sensitivity in detecting the silence between tracks in SYNC mode.

Press the MODE button in succession in STOP mode to access SILENCE MID. Use the UP/DOWN buttons to select a desired LEVEL.



Configuring Silence Detection Level

SILENCE HIGH - Set sensitivity high when silence level between tracks or if there's minimal noise.

SILENCE MID - Select when making general recordings. (default)

SILENCE LOW - Set sensitivity low when silence level is high or if there's large amount of noise.



■ LINE-IN Audio

■ Starting LINE-IN Recording

First, connect the audio connecting (LINE-IN) cable. With the external source playing back, long-press the MODE button to start recording.



Recording may not be made if the sound source is too low

Configuring Sampling Frequency for External Source Recordings



Press the MODE button in succession in STOP mode to access Sampling Freq. Use the UP/DOWN buttons to select sampling frequency.



SAMPLE FREQ
Rotates by 32kHz => 44.1kHz => 48kHz.
For general use, please select 44.1kHz

6. FM Mode



Listening to FM Radio

Press the MODE button from STOP mode to select FM. Press PLAY to listen.



Setting FM Radio Frequencies

While listening to the radio, press the PLAY button to access the PRESET control mode. (PRSET number will blink)
Adjust the frequency by using the UP/DOWN buttons, then long-press the PLAY button to set that frequency to the PRESET at hand.



Locating Set Frequency

Use the UP/DOWN buttons in FM mode to locate set frequencies.
The UP/DOWN buttons are used for frequency adjustment in PRESET mode.



Configuring FM Recording

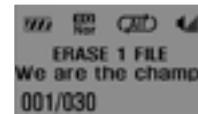
To record from an FM source, press the MODE button while in FM mode to access RECORD Stand by. Press the MODE button again to begin recording. Another press of the MODE button returns to Stand by. Press the STOP button to automatically store the data recorded until that point.



Earphones act as the antenna for this product

7. Memory Management

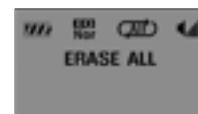
File Erase



Erasing a Single File

Press the MODE button in succession in STOP mode to access ' Erase 1 File. 'Use the UP/DOWN buttons to select the number of the file to be erased.

Pressing PLAY will indicate ' Erase1. 'Pressing PLAY again will prompt ' Wait! File Erase ' and that file will then be erased



Erasing All Files

Press the MODE button in succession in STOP mode to access ' Erase ALL. 'Pressing PLAY again will prompt ' Wait! Erase ALL ' and all files will then be erased.



Memory Format

Press the MODE button in succession in STOP mode to access ' Format. Pressing PLAY will prompt ' INT Flash ' and pressing it again will prompt ' Format Yes or No. 'Press the PLAY button to format (Formatting ' will appear on the LCD) or the STOP button to cancel.

Memory Usage Indicator

Press the MODE button in STOP mode to access' MEMORY-INT. ' Use the UP/DOWN buttons to verify current status, memory available, and total amount.



Memory Information Display
Total Memory: Total 000MB
Memory Available: Remain 000MB

8. Installing USB Hard Drive

■ Connecting a USB Cable

Connect the PC and the player via USB cable first



When not powered, this product utilizes the PC's power source when connected to it by a USB cable.

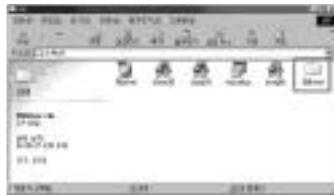
■ Installing USB Driver

■ Installing Windows 98 USB Driver

Download the Wind98 Driver from the Client-Support section of our homepage (www.ggkeiser.com).



Click on 98Driver.zip and follow the above instructions to install on your computer. Right-click on the stored file and select 'uncompress' to access the contents.



98Driver folder will appear as shown above when the file is uncompressed.

Within the created folder, the following four files will be available.

■ With the product (player)'s power turned on, connect it to the PC with a USB cable.



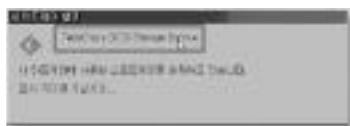
When the cable is connected, driver search will automatically run. (If driver search does not automatically run, select Add Hardware from the Control Panel) Click Next and install as shown below



Click Next and select the driver as shown below.



If 98Driver appears on screen as below, click Next.



When installation is performed as instructed above, the system will seek the Telechips USB Mass Storage Device as shown below



Click on Search to find and install the driver following the steps outlined below



After selecting the driver as shown above, click OK complete the installation procedure.



Accessing the My Computer folder after completing the installation will reveal a Removable Disk folder.



The driver has been successfully installed if Telechips USB Driver is indicated under Device Manager, Hardware, Control Panel.



Note that uploading and downloading file should be done after removing an earphone cable.

9. Using the USB Hard Drive

Using the Portable drive as you would a normal hard drive will allow you to freely up/download whenever desired.

10. Firmware Upgrade

Please refer to GGKAISER's website.

11. Customer Support

■ Cautions

- Do not drop or expose it to severe shock.
- Avoid the following locations:
 - 1) Externals may deform if left in places of 60°C or higher.
 - 2) Externals may deform if left in direct sunlight or near heating devices.
 - 3) Humid or moist spots can be critical for electronic products.
 - 4) Dusty locations.
- Do not apply excessive force on the LCD.
- Placing credit cards, bank cards, or any other magnetic cards near the player may affect its magnetic properties and hinder the unit from operating.
- GGKAISER will not be held responsible in whole for compensation demands for damage caused from use of the unit or by a third party.
- GGKAISER will not be held responsible in whole for loss of file contents arising from breakdown, repair, and other miscellaneous reasons.
- Remove the batteries when the unit is not in use for an extended period of time.

Use soft cloth to clean the product, avoiding chemical cleaning products. (May cause deformation in the unit's externals or its color)
- Do not disassemble, repair, or modify the unit at your own accord.
- Please ensure no external matter reaches inside the unit.

Moisture or external matter inside the unit will critically damage it.
If water or liquids reach inside the unit, remove the batteries and/or disconnect the power adapter and contact GGKAISER (**Customer Support** 031-488-8340).

■ Safety Precautions

1. Do not handle the adapter with wet hands. There's a risk of electrical shock.
2. Listening to music for extended periods of time in high volume settings may damage hearing.
3. Do not disassemble, repair, or modify the unit at your own accord.
4. If smoke arises from or excessive heat is generated by the unit, immediately remove the batteries and/or disconnect the power adapter.
5. Please refrain from using the unit in hospitals and airplanes.
6. Listening to music through the earphone at high volume settings when operating bicycles, motorbikes, and vehicles may cause accidents.

■ Please Check Below Before Inquiring

The unit will not operate and nothing displays on the LCD window.
Check battery positions.
Change the batteries with new ones.
If the batteries are rechargeable, try again after recharging.

There's no sound when playing.
Make sure that music file is available in the unit.
Check the volume setting.
Check the earphone connection.

The buttons do not work.
Has the player been exposed to shock?
Remove and replace the batteries.
If the problem persists still, contact us.

Downloading does not work.
Check the USB cable connection.
Has the USB driver been installed properly?

Specifications

Model : KM - 200T
KM - 200F

Internal Memory: 128MB / 256MB (Memory capacity is indicated on the box at time of purchase)
LCD Character Display: Multi Lingual Support (Built-in backlight)
Down/Upload Speed: Maximum 6.4Mbps

MP3 Decoding

Supports MPEG 1/2 Layer 3 Including variable Bit rate)

MPEG 1 Layer3 : 16KHz/22.05KHz/24KHz

8,16,24,32,40,48,56,64,80,96,112,128,144,160 Kbps
MONO/STEREO MODE(Variable Bit rate)

WMA Decoding

Supports High Bit Rate version. Middle Bit Rate version
Bit rate: 32Kbps to 192Kbps

MP3 Encoding

MPEG 1/2 Layer 3 Supports Including variable Bit rate (up to 256Kbps)

Sampling Frequency: 48KHz, 44.1KHz, 32KHz, 22.05KHz, 16KHz, 8KHz

MP3 Encoding: 8Kbps to 256 Kbps

Earphone Output: 103dB

Signal to Noise Ratio: Over 80dB (without filter)

Playback Time: 14hours FM: 20hours

Recording Time: Over 16hours (Based on 128MB memory at 16Kbps encoding)

Line-In Recording Time: Over 2hours (Based on 128MB memory at 128Kbps encoding)

PC Interface: USB

Power: 1 X Battery

Dimensions: 65 X 15mm

Weight: 27g (without the battery)

Product Warranty

Regarding Service

1. This product is the result of stringent quality management and testing procedures.
2. Breakdowns that arise under normal use within the warranty coverage will be serviced at no additional charge.
3. Services that fall under chargeable categories will be subject to payment even under warranty coverage period.
4. This warranty is effective in country only.
5. Product warranty term for commercial use (commercial activities, abnormal use) of this product is six months.
6. Please store this warranty at a secure place.
7. When problems arise with the unit, contact the vendor or the Customer Support Centre.

Product	KOMACHO - M		Model
Purchase Date			Warranty Period
Vendor			Purchase Price
Customer Information			
Name		Phone Number	
Address			

Services at a Charge

Breakdowns caused by negligent use, internal modification by the user, and natural disasters.

Customer Support & A/S Inquiry

Please contact our Customer Support Center for any inquiries.
Phone: 82-31-488-8340

E-mail : ggkaiser@ggkaiser.com

Http : www.ggkaiser.com