Kam

INSTRUCTION MANUAL

KCD550 USB
Scratch CD/USB player/controller

MANUAL VERSION 1.0
05-07-12

Due to continuous product development, please ensure that you have downloaded
the latest instruction manual for this product from the Kam website at www.kam.co.uk

For the latest updates and information on the entire Kam range visit:
www.kam.co.uk

MADE IN CHINA

Thank you for purchasing this Kam product, we are sure that it will serve you for many years to come.

To optimise the performance of this product, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. Please retain them for future reference.This unit has been tested at the factory before being shipped to you.

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture. To prevent a fire hazard, do not expose the unit to any naked flame sources. Unplug this apparatus during lightning storms or if it is unlikely to be used for long periods of time.

When installing the unit, please ensure you leave enough space around the unit for ventilation. Slots and openings in the unit are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered.

If the unit is powered by the mains, always handle the power cable by the plug. Never pull out the plug by pulling on the cable. Never touch the power cable when your hands are wet as this could cause an electric shock. Do not tie a knot in the cable. The power cable should be placed such that it is not likely to be stepped on. A damaged power cable can cause a fire or give you an electrical shock. Checkthe power cord periodicaly, if you ever find that it is damaged, replace it before using the unit again. Contact your retailer for a replacement.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit is to be used meets the required written on the unit.

The lightning flash symbol inside a triangle is to alert the user to the presence high voltage within the unit's enclosure that may be of sufficient power to constitute a risk of electrical shock to persons.

Caution: to prevent the risk of electric shock, do not attempt to open the unit. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

The exclamation mark inside a triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Select the installation location of your unit carefully. Avoid placing it in direct sunlight or locations subject to vibration and excessive dust. Do not use the unit where there are extremes in temperature (below 41ºF / 5ºC or exceeding 95ºF / 35ºC).

Unpacking and safety Please unpack your new product carefully. Your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit. Please contact the retailer you purchased it from immediately. If there is any damage to the mains cable do not use the device. Always disconnect the unit from the mains supply when carrying out any cleaning of the unit.

Manufacturer declarations

In compliance with the following requirements: **RoHS Directive (2002/95/EU)** and **WEEE Directive (2002/96/EU).** If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

CE declaration of conformity
R&TTE Directive (1999/5/EU), EMC Directive (2004/108/EU), Low Voltage Directive (2006/95/EU).
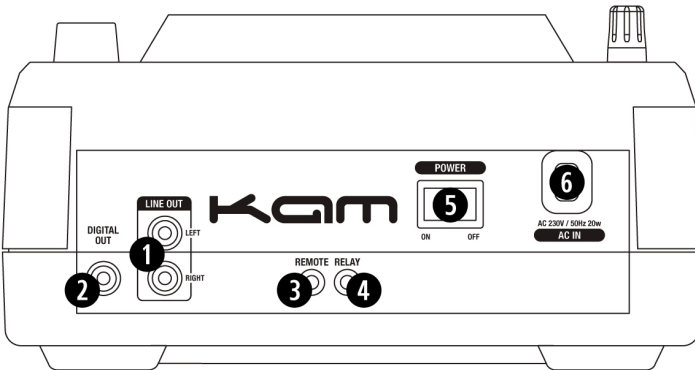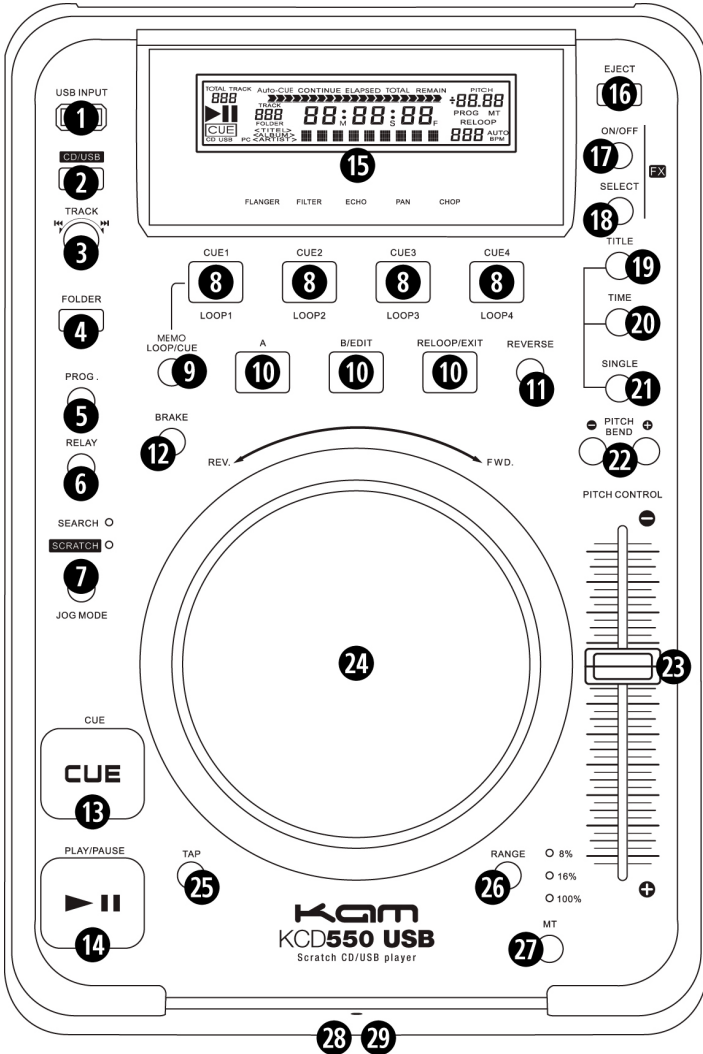The declarations are available on application from certification@lambaplc.com
Before putting the devices into operation, please observe the respective country-specific regulations.

Laser diode properties
Material: Ga.-Al-As
Wavelength: 755-815 nm (25ºC)
Laser output: continuous wave max. 0.5mW

USB INPUT 1

CD/USB 2

TRACK 3

FOLDER 4

PROG . 5

RELAY 6

SEARCH ○
SCRATCH ○
7
JOG MODE

CUE
CUE 13

PLAY/PAUSE
14

TAP 25

CUE1 8   CUE2 8   CUE3 8   CUE4 8
LOOP1   LOOP2   LOOP3   LOOP4

MEMO
LOOP/CUE 9   A 10   B/EDIT 10   RELOOP/EXIT 10   REVERSE 11

BRAKE 12   REV.   FWD.

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Kam
KCD550 USB
Scratch CD/USB player

RANGE 26   ○ 8%
            ○ 16%
            ○ 100%

MT 27

TOTAL TRACK Auto-CUE CONTINUE ELAPSED TOTAL REMAIN   PITCH
888   +88.88
        TRACK   PROG MT
        888 88:88:88   RELOOP
CUE   FOLDER M   S   F
CD USB PC <ARTIST>   888 AUTO
              <TITLE>   BPM
              <ALBUM>
15
FLANGER   FILTER   ECHO   PAN   CHOP

EJECT 16

ON/OFF 17   FX

SELECT 18

TITLE 19

TIME 20

SINGLE 21

PITCH
BEND ⊖ ⊕ 22
PITCH CONTROL

⊖

23

⊕

28 29

DIGITAL OUT 2

LINE OUT 1   LEFT
              RIGHT

Kam

POWER 5
ON   OFF

AC 230V / 50Hz 20w
AC IN
6

REMOTE 3 RELAY 4

Top panel functions and operations

1. USB input
Connect your USB device to the KCD550 USB via this socket. This unit supports USB memory stick and hard drives (max 2 GB) the KCD550 USB will play MP3 and WAV formats. Please note when using WAV format the pitch range is limited to +/- 16%

2. CD / USB
Press this button to switch the source between USB and CD input. The unit must be paused to change the source to prevent accidental use.

3. TRACK
Turn this control clock/anti-clockwise to navigate through partitions, folders and tracks. Press the control knob to load a track. Press and turn it to skip 10 tracks for quick track search.
The Track control button is also used with other functions to select a specific mode.
The button can't skip a track during loop playback.

4. FOLDER
USB flash drive
Press this button to switch between MP3 folder and MP3 file view. When the view stops at Folder selection, pressing and holding this button for 2 seconds will return to the Track view.

Hard drive
When you use a hard drive as your USB source, pressing this button can switch between file, folder and partition views. Whether the menu stops at a partition or a folder, holding this button down for 2 seconds will return to the Track view.
In File view, Total-Track shows the total MP3 files in the folder. In Folder view, Total-Track shows the total folders in the CD or in the USB drive. In Partition view, Total-Track shows the total partitions on the hard drive.

5. PROG: The maximum number of tracks that can be edited is 99.
PROG has three views – Program Editing, Program Track Viewing, and Program Play.
Start PROG-Edit:
In pause mode, press this button to edit program. This view is PROG Editing.
The display MM:SS: FF position will show "P-xx" and then "xx" will flash. Select a track by turning the TRACK button and then pressing TRACK to store it. Repeat the same process and finally press TRACK to finish a program list editing. It will go into PROG Track Viewing and allow you to review each track which has been edited by pressing SKIP.
Play PROG:
Press PLAY/PAUSE to play the program and PROG will flash in the display.
Exit PROG Play/Edit:
When the PROG playback is paused, pressing this button for two seconds will return to normal playback. Once returnied to the normal playback, pressing this button again will enter the program again and will continue the program from the last PROG track number.
In **PROG Editing** view, pressing this button for 2 seconds will wipe the PROG list and return to normal playback.

6. RELAY
Press the button to activate this function. When one unit is in Play mode, and the other unit is in Pause mode; pause the playing unit, the other unit will automatically start to play.
This button is also for switching between the Gain and the Parameter of the digital effect shown in the display.

7. JOG MODE
Press this to switch the jog wheel mode between Normal, Search and Scratch modes.

8. HOT-CUE & HOT-LOOP BANKS
This unit allows you to play from 4 cue points or from 4 hot loops instantly.
HOT-CUE
A. Set CUE memory: press MEMO first and then press a desired CUE button (1-4). The LED of the set CUE button will light up green.
B. The main Memo / Loop / Cue button (9) must be pressed first each time you wish to save a cue to a button
HOT-LOOP
A. Set LOOP memory: Set a LOOP playback first and then press MEMO (9) to set the LOOP recording.
Press a desired LOOP button (1-4) The LED of the set LOOP button will become orange.
B. Play LOOP from memory: press the assigned loop button
Hold MEMO and turn the jog wheel to preset the beat length of Auto Loop. Then MEMO will illuminate. This means it's ready to execute the Auto Loop playback. Pressing IN will auto form an auto loop according the beat length you set. The bar range of auto loop can be selected from 1/32~32/1. Use the TRACK knob to trim the loop length.

10. LOOP
1. Press A to memorize a start point and press B to memorize an end point. Then the Loop starts playing.
2. Press B again to edit the Loop playback. The length of the Loop playback can be enlarged or shortened by turning the jog wheel.
3. Press the RELOOP to exit or recall the Loop playback.
4. When a loop is formed, turn TRACK to trim the loop to double or half of the original loop
Auto loop
There is also an Auto Loop function to assist in obtaining seamless loops. Press and hold the MEMO button, then using the jog wheel to preset the loop playback range from 1/32~32/1. The memo button will stay illuminated and this means that the auto loop function is ready to trigger the loop playback. To start the loop, press the A button at the desired start point. The loop playback will form automatically from the preset time you set. 1/1 is equal to one bar or 4 beats. When Auto Loop playback starts, the loop length is still editable by using the TRACK knob.

11. REVERSE
Press to activate the Reverse Play effect.

12. BRAKE
Hold this button and dial the jog wheel to adjust the time of start and break simultaneously. The range is from 0.5 to 6 seconds. Press it to set START / BRAKE effect ready. Press PLAY/PAUSE button to execute the effect.

13. CUE
In Pause mode, press this button to set a memorized point for instant play; in Play mode, press this button to pause the music and return to the memorized point. Holding down this button will start the playback from the cue point. Releasing it will pause the track and return to the cue point.

14. PLAY/PAUSE
Press this button to start the playback or let the playback pause.

15. DISPLAY

16. EJECT
Press to eject the disc. NOTE: the disc can't be ejected unless CUE or PAUSE button has been pressed first.

17. FX ON/OFF
These buttons will activate Flanger, Filter, Echo, PAN and CHOP effects. Press Relay to switch between Gain and Parameter (the selected option will blink) showing in the display. Use the jog wheel to change the value of them.
Flanger: Gain - 0~100 / Parameter: 1/32~16/1
Filter: Gain - 0~100 / Parameter: -60~+60
Echo: Gain - 0~100 / Parameter: 1/32~1/1
Pan: Gain - 0~100 / Parameter: 1/32~1/1
Chop: Gain - 0~100 / Parameter: 1/32~1/1

18. FX SELECT
Press this button to switch among the five digital effects.

19. TITLE

a. Press this button to show FILE, TITLE, ALBUM and ARTIST. It supports MP3 format only.

b. Hold it and turn TRACK to select a playlist format (XML/ M3U/ WPL). Release this button to enter into the selected format. Then choose the playlist files to start the playback.

20. TIME

CD mode - press this button to switch time display between Single Elapsed Time, Single Remain Time and Total Remain Time.

MP3 mode - press this button to switch time display between Single Elapsed Time and Single Remain TIME.

Sleep - hold this button and use the TRACK button to select the time for sleep mode. It can switch between 15, 30 and 60 minutes.

21. CONT./SGL

Press this button to switch between Continue mode and Single AUTO CUE mode.

Continue mode - Playing from the first track continually to the last track. When skipping to the next track, it will continue the playback.

If you skip under this mode, the Main Cue is still set at the first track or the new Main Cue which has just been memorized. It won't renew to the new Cue of each track by pressing SKIP.

Single Auto Cue Mode – When going on to the next track or skipping to the next track, it pauses at the main cue of the next track automatically.

Remote Control (Hold CONT and press SKIP to select the type of switch in the mixer for FADERTSTART wire remote control)

Select Lock, Tack and Cue/Play by using this switch mode.

Lock: when the mixer's fader is moved to the end belonging to the channel of the player every time, the playback will start and then pause instantly.

TACT: When the mixer's crossfader is moved to the end belonging to the channel of the player for the first time, the playback will start.

When the mixer's crossfader is moved fully towards the side of the playing channel, the playback will pause.

CUE/PLAY:

When the mixer's crossfader is moved toward the channel of the player, the playback will be started from the last Main CUE.

Touch Sensitive Adjustment

Holding this button and switching on the power will lead into the mode for adjusting the sensitivity of Touch Wheel. Float your hand very close to the jog wheel. It will detect the sensitive value. It has to increase 2 degree from the value detected. Use TRACK to select the value and press MEMO to save the value. Reboot for retuning to normal.

* This adjustment is only needed when finding the sensitivity difference in a specific environment.

22. PITCH BEND

Press + to increase the speed and press − to decrease the speed.

23. PITCH CONTROL SLIDER

The pitch control will speed up or slow down the track being played to assist beat matching.

24. JOG WHEEL

Pitch mode: Use the wheel to adjust the speed to get an even close BPM with another playing unit.

Scratch mode: The top flat surface is used for the scratch effect. The ring of the wheel is used for adjusting the speed of the track.

The jog wheel is also used the gain and the parameter of the digital effect.

25. TAP

Press this button with the beat to match the beats-per-minute (BPM) of the music manually. Press and hold this button to activate Auto BPM.

26. PITCH RANGE

Switch the pitch range between 8%,16 % and 100%.

When the LED light is off, it sets under 8%.

When the LED light is on, it sets under 16%.

When the LED light is blinking, it sets under 100%.

27. MT
When this function is activated, the key of the song will be locked even though the pitch fader is adjusted.

28. POWER ON LIGHT
On front of unit (not shown).

29. FRONT DISC SLOT
On front of unit (not shown). Insert CD disc into this slot. Press the Eject button to release the disc from the unit.

Rear panel functions and operations

1. LINE OUT (RCA jacks)
The analogue audio from the CD player is output from these jacks. Connect to the line input of your mixer.

2. DIGITAL OUT
The digital audio from the CD player is output from this jack. Connect to the line input of the D/A amplifier.

3. REMOTE
This connector is used for connecting to FADERSTART wire remote control unit.

4. RELAY CONNECTOR
This connector is used for connecting to another CD player to allow Relay function to work.
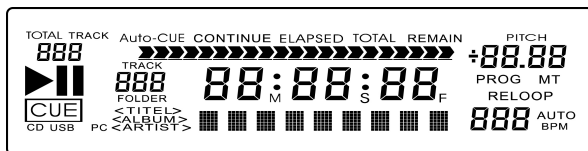
5. POWER (power switch)
Press the power switch to turn the unit on, and the LED indicator will light up. Switch the POWER off by pressing the POWER switch again.

6. AC (power)
Connect to an AC wall outlet with the proper AC voltage.

Display panel functions and operations

1. **Total track** – shows the number of tracks on the inserted CD. During folder selection, it shows the total folders on the CD.
2. **>** - the unit is in play.
3. **||** - the unit is paused
4. **Cue** – this indicates a cue has been memorized..
5. **CD** – lights when switching the play source to CD mode.
6. **USB** – lights when switching the play source to USB mode.
7. **PC** – no function
8. **Cue** – lights up when a memorized point is input.
9. **Continue** – when this light is on, the playback continues without interruption.
10. **Time mode (elapsed)** – shows the time as it is taking place.
11. **Time mode (total)** – shows how much time is left on the full CD.
12. **Time mode (remain)** – shows how much time is left on a particular track.
13. **Time bar** – show the time length depending on the setting of the "TIME" mode.
14. **Track** – shows the track number that is playing.
15. **Minutes** – shows the minute's elapsed or remaining depending on time mode setting.
16. **Seconds** – shows the seconds elapsed or remaining depending on time mode setting.

17. **Frames** – the CD player breaks down a second into 75 frames for accurate cueing. This shows the frames elapsed or remaining depending on mode setting.
18. **Mode display** – shows the sound effect name, or MP3 file name /Folder. Folder name can not be displayed.
19. **Pitch** – lights to indicate the pitch value is under it.
20. **Prog** – lights to indicate that there is a program list in normal playback. Blinks when the program list is active.
21. **MT** – lights up when performing master tempo function.
22. **Reloop** – lights up when performing the loop function.
23. **000** – shows the BPM value.
24. **BPM** – illuminates when the power is on.
25. **Auto** – lights up when AUTO BPM function is activated.

Techinical specifications

Quantization	1 bit linear/channel, 3 beam laser
Oversampling rate	8 times
Sampling Frequency	44.1KHz
Frequency response	20Hz to 20KHz ±2dB
T.H.D. + NOISE	less than 0.03%
S/N ratio (IHF-A	> 75 dB
Dynamic range	> 75 dB
Output level	1.0 volts R.M.S. ±0.2V
Disc Type	Standard compact discs, audio CD, CD-R & MP3 CD-ROM (MP3 files)
USB Ports	USB
Time Display	Track elapsed, track remain, or total remain
Text Mode	Text mode – displays CD-TEXT and ID3 tag information.
Pitch control range	± 8, 16, 100% slider

MP3 format

	DISC	DISC/USB	USB Devices
Applicable file extensions		.MP3 .mp3 .Mp3 .mP3	
File systems compatible	ISO9660		FAT , NTFS , HFS+
CD-ROM sector / HD capacity	Mode-1, Mode-2		Max. 2000 Gigabyte
Folder / directory level		max. 8 levels down	
Max. number of partitions		max. 16 partitions	
Max. number of folders		max. 999 folders	
Max. number of files		max. 999 files	
MP3 format		MPEG1 layer3 32-320kbps, f/s 32K 44.1K 48K , MPEG2 layer3 40-1600kbps, f/s 16K 22.05K 24K ,	
Encoding		(VBR/CBR)	
ID3 Tag		Ver. : V1.0 , V1.1 , V2.2 , V2.3 ,V2.4	

GENERAL

Power requirements	AC 230V, 50Hz
Power consumption	20w
Operating temperature	+5˚C – +35˚C
Dimensions (mm)	427(L) x 345(W) x 221(H)