

FDSK730A **User Manual**



DIGITAL SOUND PROCESSOR

nakamichicaraudio.com f nakamichi.global

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PRODUCT FEATURES

- 10 in 12 out high power HI-RES DSP
- Support high level input gain adjustment
- Supports digital music; mobile OTG playback
- Supports Bluetooth music playback

- Maximum power of the machine: 1300V • 10CH high level inputs
 - 10CH high level outputs 12CH low level outputs
- Supports optical fiber and coaxial input Supports USB lossless music playback Supports external LCD controller
- Supports external APTX HD lossless Bluetooth Super wide frequency range: 20Hz-40KHz • Rated power 4x25W+4x50W+2x100W
- Supports steering wheel button control Supports bridging 200W and directly pushing the subwoofe

Coaxial, optic

CHARACTERISTICS

digital input Input Channel
Output channel
Power on control

General Specifications Operating temperature -20°C~+60°C

EQ band FQ Gain 2CH L- Level, 10CH H-Level 12CH L- Level, 10CH H-Level High level CH1/CH2 or ACC

Technical Parameter 31 Band /12 CH, preset EQ:6 groups -12 to ±12dB resolution 0.1dB 0.3 to 50dB, resolution 0.1dB 0.01 ms | 0.34 cm | 0.13 inch 0 to 10,000 ms, with a step of 1 ms Low level: 0-8 Vpp; High level: 0-56Vpp Butterworth | Bessel | Link-Ril High and low pass slope
Harmonic distortion
Signal-to-noise ratio

Southern Tessel | Ellikeli |

Harmonic distortion |

Southern Tessel | Ellikeli |

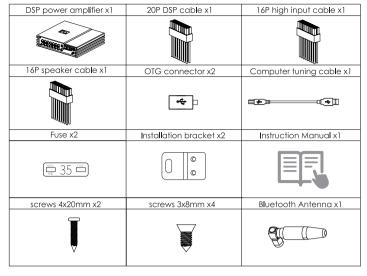
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СН	Rated power 14.4V 4Ω	MAX power $14.4 \text{V } 4\Omega$	Bridge power 14.4V 4Ω	4ΩSpeaker	2ΩSpeaker
CH1-CH4	50W	100W	/	Support	Not supported
CH5-CH8	25W	50W	/	Support	Support
CH9-CH10	100W	200W	200W	Support	Support

- 1.Supported audio formats: MP2,MP3,WMA,APE,FLAC,AAC,MP4,M4A,WAV,AIF,AIFC 2. Supported audio samplina rate: 8KHz.11.0225KHz.16KHz.22.05KHz.24KHz.32KHz
- 3. Supported USB flash drive formats: FAT32 | NFTS | eXFAT
- 4. Maximum supported capacity of USB flash drives: 256GB

PRODUCT LIST



PRECAUTIONS



Please install it on models with a 12V power supply If installed in a vehicle with a 24V power supply, it may cause damage to the machine and lead to combustion.



Please install in a well-ventilated location.
If installed in a fully enclosed environment, excessively high temperatures may cause the machine to enter a protective state after working for a period of time The sound can only return to normal after the temperature drops. Please have professionals install it. If it is not done by professionals for tuning and

nstallation, when the wiring or Settings are incorrect, it may cause dan

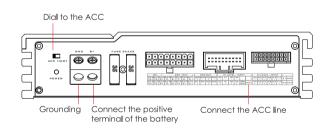


Please ensure that you use wries that mainth the machine's current or have poor grounding, if you that do not match the machine's current or have poor grounding, if you that machine to make intermittent sounds it is silent after being played mittently or for a period of time

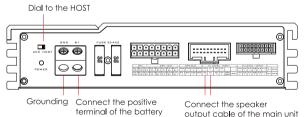
SYSTEM MATCHING DIAGRAM ANS-INFUT OFFICIAL CONTROLLES OFFICIAL CONTROL CHI2 O CHI CO CH

WIRING DIAGRAM

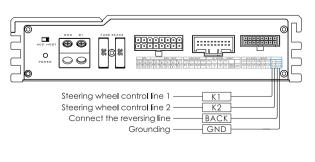
ACC starts up and turns on (that is, the DSP turns on when the car starts)



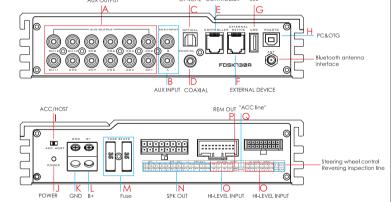
High-level startup (DSP startup when the I host is turned on)



The steering wheel control line and the reversing line are connected



INTERFACE INTRODUCTION



A.AUX OUTPUT: Expandable external amplifier, connected to the RCA input of the amplifier. B.AUX INPUT: Connect to the L-level output of the host or the RCA output of other playback devices.

C.OPTICAL:Connect the optical fiber output of the host or that of other playback devices. D.COAXIAL:Connect to the coaxial output of the host or the coaxial output of other

E.CONTROLLER:The line controller AC6 supports volume control and song display. G.USB:USB interface

F.EXTERNAL DEVICE:Connect to FDS05B, supporting APTX and LDAC high-definition music. H.PC&OTG:When playing OTG on a mobile phone, an OTG adapter needs to be connected.

I.ACC/HOST:ACC: Turn on the car when it starts. HOST: Boot up when the host is turned on. J.POWER:Blue light: Powered on. Red light: Entered protection

(will be activated after cooling down). K.GND:Connect to the negative terminal of the power supply. Please use Line 4 and ensure it is well grounded.

L.B+:After passing through the fuse (optional), connect the positive terminal of the battery. Please use Wire 4.

M.FUSE:Fuse. When the fuse blows, please be sure to use a fuse of the same specification. N SPK OUT: Connect the speaker

O.HI-LEVEL INPUT: Connect to the high-level output of the main unit. P.REM OUT:Connect the REM OUT port of the power amplifier. When the DSP is turned on, the power amplifier is also turned on.

Q."ACC line":Connect to the car's ACC fuse box.

PHONE APK INSTALLATION Android Phone APK Installation

- 1. Open phone browser, scan the QR code to enter the download
- 2. Find the FDSK, select Android for download and installation
- 1. Enter the PC browser.enter nakamichicaraudio.com
- 2. Click ENQUIRIES-Dowsnloads-DSP software Download
- 3. Find FDSK,select Android for download and installation

iPhone APK Installation

Open the app store, Search Nakamichi FDSK for download and installation

Installation precautions

- 1. During the installation process, please turn off the antivirus software 2. Android phone: Download and unzip before installing
- 3. During the installation process, please click on allow this installation or authorize this installation based on known application risks.
- 4. Send APK via mobile phone, please send a compressed file, unzip it upon receipt, and then proceed with installation

Before operating the app, turn on your phone's Bluetooth first

- 1. Open the FDSK APP 3. Click on the top right corner 🛜 2. Select FDSK730A,Click OK 4. Turn on Bluetooth on your phone
- When connecting for the first time, a pop-up box will appear. Please select 'Allow' If not allowed, Bluetooth cannot be searched





Connected 🤝

BASIC OPERATIONS

The following operations need to be performed after the APP is installed and connected

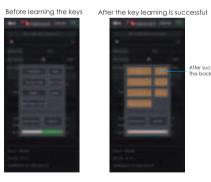
LEARNING OF STEERING WHEEL BUTTONS

1.Click on [System] and select [Control learning] 2. Click on the key function you want to learn on t

ering wheel within 10 seconds. When the bottom of the key turns vellow, it indicates that the learning is

operations in steps 2 and 3
5. After completing all the learning, click (Save Result) When the key learning is

4 For other key learning repeat the



Reversing volume setting Click [System] and select [Reversing Volume]



Signal source selection Click on the main audio source to select the signal source





1. When a USB flash drive is inserted, the DSP will jump to USB playback.

2. Click on [Player] to enter the player interface. Click on [Player] to enter the player Click on [Flayer] to enter the player interface. Click on [Flayer] to enter the player control interface. When in other states and you need to switch to USB playback, click on the audio source and select [Player].





Random play | Sequential play The previous song Single repeat | All repeat

BLUETOOTH MUSIC PLAYBACK

When playing music via Bluetooth for the first time, pairing is required first

1. Turn on your phone's Bluetooth and search for available devices: FDSK730A.

After successful pairing, when playing Bluetooth music, the DSP will automatically switch to Bluetooth mode. When in other states and you need to switch to Bluetooth mode, click on the audio source and select [Bluetooth/Devices].

2. Click on FDSK730A to pair.





2. Click [Finish], PC tuning software installed successfully.

4. Connect the PC and DSP with

a tuning data cable.

MOBILE PHONE OTG MUSIC PLAYBACK

Mobile phone OTG: It refers to the process of transmitting mobile phone music to the DSP in a high-fidelity digital format, where the DSP performs hard decoding to achieve high-fidelity lossless audio quality.

1.Connect the OTG cable of your mobile phone and play music
2. Enter the mobile APP, click on the main audio source, and select [OTG]

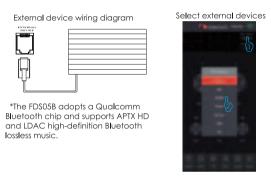


EXTERNAL DEVICE PLAYBACK

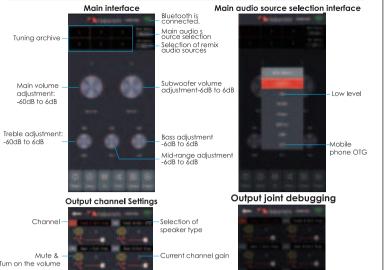
1.Connect the FDS05B to the EXTERNAL DEVICE port.

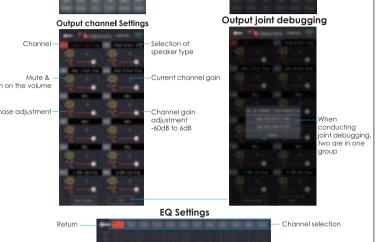
2. Turn on the Bluetooth on your mobile phone and search for available devices: FDS05B. 3. Click FDS05B to pair.

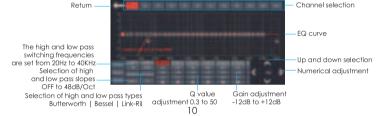
When the FDS05B is connected, the built-in Bluetooth music of the original machine will not



OPERATION OF MOBILE PHONE APP

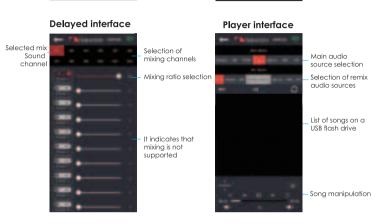






OPERATION OF MOBILE PHONE APP





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PC TUNING SOFTWARE DOWNLOAD

Solution 1:(Mobile Download)

1. Enter the browser and scan the QR code to enter.

2. Click FDSK series and select PC download.

3. After downloading, send to the computer.

Solution 2:(PC Download)

1. Double-click FDSK to install it

*Files sent via mobile phone

3. Click [FDSK730A], click [OK]

to enter the tuning interface

need to be unzipped.

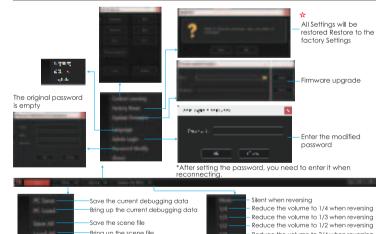
👼 Port DSR (185427) Jesus

1. Enter the browser and type nakamichicaraudio.com.

2.Click ENQUIRIES--Downloads--DSP Software Download.

2. Click FDSK series and select PC download. PC TUNING SOFTWARE INSTALLATION

BASIC OPERATIONS OF COMPUTER TUNING

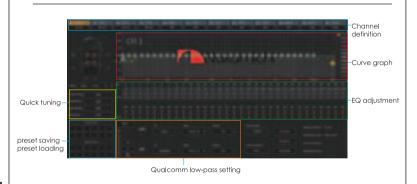


Bring up the scene file

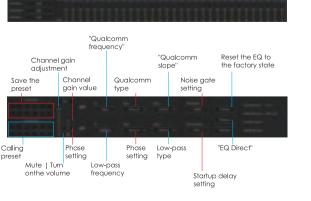




COMPUTER TUNING OPERATION







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SIMPLE FAULT HANDLING

	The fuse has blown	Replace the correct fuse		
	Choosing "ACC HOST" for	N.When ACC is selected, please connect the ACC cable		
No electricity	startup and shutdown is incorrect	When "HOST" is selected, connect the high-level input		
	Poor contact of the power cord	Reconnect the power cord		
The sent APK file or PC	Some channels have been deleted or isolated by antivirus or	1.Find the isolated files		
tuning file cannot be found	security software without any sound	2. Turn off the antivirus or security software and resend		
The APP cannot be	What the mobile phone sends is not a compressed file. Yes. APK file	Use a computer to convert fDSk.apk.1 to FDSK apk, compress it and then send it to a mobile phone for installation		
installed.	The Compressed Her Test / Williams	Ask the other party to send a compressed file for installation		
	No selection was allowed during the installation process	Reinstall the APK and select Allow		
APP was unable to search for D SP's blue	Location and access are	Set the FDS location information to allowed in the mobile phone Settings		
teeth	not allowed	Reinstall the APK and select Allow		
	Poor USB contact	Please replace it with another USB port		
The computer cannot	Software problem	Please uninstall and reinstall		
be connected to the Internet or the computer tuning often	The software has encountered a BUG.	Please close the software and then reopen it to reconnect		
disconnects	The system is too old.	Please replace your computer with one running Windows 7 or above		
	An Apple computer is used	The system compatibility is poor. Please use a WINDOWS computer		
	The purchased data cable is of poor quality	Please change the data cable of a good brand and quality		
The USB playback has s ound but becomes silent	The machine enters the protection state when the temperature is too high	Please move the machine to a well-ventilated position or install a fan		
or intermittent after playing for a period of time	The high-level input does not match	Add a detection resistor to the wire		
The Bluetooth music	The Bluetooth is not connected or disconnected	Reconnect Bluetooth		
cannot play	Bluetooth is isolated by metal	Remove the metal or change the installation position of the machine		
The Bluetooth music is intermittent or silent when	The Bluetooth antenna is not installed or has fallen off	Install the Bluetooth antenna properly		
it's a little farther away	RCA line interference	Please replace the RCA wire with a good quality one		
The bottom noise is relatively large	The noise at the bottom of the main unit is high	Adjust the noise gate value or replace the main unit		
The sound of the optical fiber is too soft or intermittent	The output amplitude of the optical fiber is relatively small	Replace it with a high or low level input to the DS		
Some channels have no sound	Some vehicles come with power amplifiers, and some channels have a large wattage	Set the high-level input gain adjustment		

Installation precautions:

1. Please turn off the anti-virus software when downloading files or installing software.

2. When you need to extend the tuning data cable, please purchase a good quality one.

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