



HIF-NICS 8-Channel DSP Processor M8-DSP Owner's Manual

[Home](#) » [HIF-NICS](#) » HIF-NICS 8-Channel DSP Processor M8-DSP Owner's Manual 

H I F N I C S

Medusa SERIES



8-CHANNEL
DSP PROCESSOR
M8-DSP
BENUTZERHANDBUCH 2
OWNER'S MANUAL16

Due to the ongoing development of this device, it is possible that the information in this manual is incomplete or is not matching to the delivery status.

Contents

- 1 SCOPE OF DELIVERY
- 2 SAFETY INSTRUCTIONS
- 3 INSTALLATION INSTRUCTIONS
- 4 MECHANICAL INSTALLATION
- 5 ELECTRICAL INTERCONNECTION
- 6 BEFORE CONNECTING
- 7 FUNCTIONAL INSTRUCTIONS
- 8 USER INTERFACE OF THE SOFTWARE
- 9 SPECIFICATIONS
- 10 TROUBLESHOOTING
- 11 Documents / Resources
- 12 Related Posts

SCOPE OF DELIVERY

- 1 x M8-DSP Processor
- 1 x Remote Controller with LED Display, incl. Connection Cable
- 1 x USB Cable, A- to Mini-B Connector, 5 m
- 1 x Cable Set High-Level Inputs
- 1 x Cable Set Power Supply
- 1 x CD-ROM with M-CONTROL Software
- 1 x Owner's Manual (German/English)



NOTE

This symbol shows you important notes on the following pages. Follow these notes necessarily, otherwise, damages of the device and on the vehicle as well as serious injuries may be caused.

PLEASE KEEP THIS MANUAL FOR LATER PURPOSES!

SAFETY INSTRUCTIONS

PLEASE NOTE THE FOLLOWING ADVICE BEFORE THE FIRST OPERATION!

THE PURCHASED DEVICE IS ONLY SUITABLE FOR AN OPERATION WITH A 12V ONBOARD ELECTRICAL SYSTEM OF A VEHICLE. Otherwise, fire hazards, risk of injury, and electric shock consist.

PLEASE DO NOT MAKE ANY OPERATION OF THE SOUND SYSTEM, WHICH DISTRACT YOU FROM A SAFE DRIVING. Do not make any procedures, which demand longer attention. Perform these operations not until you have stopped the vehicle in a safe place. Otherwise, the risk of accident consists.

ADJUST THE SOUND VOLUME TO AN APPROPRIATE LEVEL, THAT YOU ARE STILL ABLE TO HEAR EXTERIOR NOISES WHILE DRIVING.

High-performance sound systems in vehicles may generate the acoustic pressure of a live concert. The permanent listening to extrem loud music may cause the loss of your hearing abilities. The hearing of extremely loud music while driving may derogate your cognition of warning signals in the traffic. In the interests of common safeness, we suggest driving with a lower sound volume. Otherwise, the risk of accident consists.

DO NOT COVER COOLING VENTS AND HEATSINKS. Otherwise, this may cause heat accumulation in the device and fire hazards consists.

DO NOT OPEN THE DEVICE. Otherwise, fire hazards, risk of injury, and electric shock consist. Also, this may

cause a loss of the warranty.

REPLACE FUSES ONLY WITH FUSES WITH THE SAME RATING. Otherwise, fire hazards and risk of electric shock consist.

DO NOT USE THE DEVICE ANY LONGER, IF A MALFUNCTION, WHICH REMAINS UNREMEDIED. Refer in this case to the chapter TROUBLESHOOTING. Otherwise risk of injury and the damage of the device consists.

Commit the device to an authorized retailer.

INTERCONNECTION AND INSTALLATION SHOULD BE ACCOMPLISHED BY SKILLED STAFF ONLY. The interconnection and installation of this device demand technical aptitude and experience. For your own sadness, commit the interconnection and installation to your car audio retailer, where you have purchased the device.

DISCONNECT THE GROUND CONNECTION FROM THE VEHICLE'S BATTERY BEFORE INSTALLATION. Before you start with the installation of the sound system, disconnect by any means the ground supply wire from the battery, to avoid any risk of electric shock and short circuits.

CHOOSE AN APPROPRIATE LOCATION FOR THE INSTALLATION OF THE DEVICE. Look for an appropriate location for the device, which ensures sufficient air circulation. The best places are spare wheel cavities and open spaces in the trunk area. Less suitable are storage spaces behind the side coverings or under the car seats.

DO NOT INSTALL THE DEVICE AT LOCATIONS, WHERE IT WILL BE EXPOSED TO HIGH HUMIDITY AND DUST. install the device at a location, where it will be protected from high humidity and dust. If humidity and dust attain inside the device, malfunctions may be caused.

MOUNT THE DEVICE AND OTHER COMPONENTS OF THE SOUND SYSTEM SUFFICIENTLY. Otherwise, the device and components may get loose and act as dangerous objects, which could cause serious harm and damages in the passenger room.

ENSURE NOT TO DAMAGE COMPONENTS, WIRES, AND CABLES OF THE VEHICLE WHEN YOU DRILL THE MOUNTING HOLES. If you drill the mounting holes for the installation into the vehicle's chassis, ensure by any means, not to damage, lock, or tangent the fuel pipe, the gas tank, other wires, or electrical cables.

ENSURE CORRECT CONNECTION OF ALL TERMINALS. Faulty connections may cause fire hazards and lead to damages to the device.

DO NOT INSTALL AUDIO CABLES AND POWER SUPPLY WIRES TOGETHER. Ensure while installation not to lead the audio cables between the head unit and the processor together with the power supply wires on the same side of the vehicle. The best is an areal separated installation in the left and right cable channel of the vehicle. Therewith an overlap of interferences on the audio signal will be avoided. This stands also for the equipped bass remote wire, which should be installed not together with the power supply wires, but rather with the audio signal cables.

ENSURE THAT CABLES MAY NOT CAUGHT UP IN CLOSE-BY OBJECTS. Install all the wires and cables as described on the following pages, herewith these may not hinder the driver. Cables and wires which are installed close by the steering wheel, gear lever, or the brake pedal, may catch up and cause highly dangerous situations.

DO NOT SPLICE ELECTRICAL WIRES. The electrical wires should not be bared, to provide power supply to other devices. Otherwise, the load capacity of the wire may get overloaded. Use therefore an appropriate distribution block. Otherwise, fire hazards and risk of electric shock consist.

DO NOT USE BOLTS AND SCREW NUTS OF THE BRAKE SYSTEM AS GROUND POINTS. Never use for the installation or the ground point bolts and screw-nuts of the brake system, steering system, or other security-relevant components. Otherwise, fire hazards consist of the driving safety will be derogated.

ENSURE NOT TO BEND OR SQUEEZE CABLES AND WIRES WITH SHARP OBJECTS. Do not install cables and wires not close-by movable objects like the seat rail or may be bent or harmed by sharp and barbed edges. If you lead a wire or cable through the hole in a metal sheet, protect the insulation with a rubber grommet.

KEEP AWAY SMALL PARTS AND JACKS FROM CHILDREN. If objects like these will be swallowed, the risk of serious injuries consists. Consult promptly a medical doctor, if a child swallowed a small object.

INSTALLATION INSTRUCTIONS



NOTE

Before you start with the installation of the sound system, disconnect necessarily the GROUND connection wire from the battery to avoid any risk of electric shocks and short circuits.

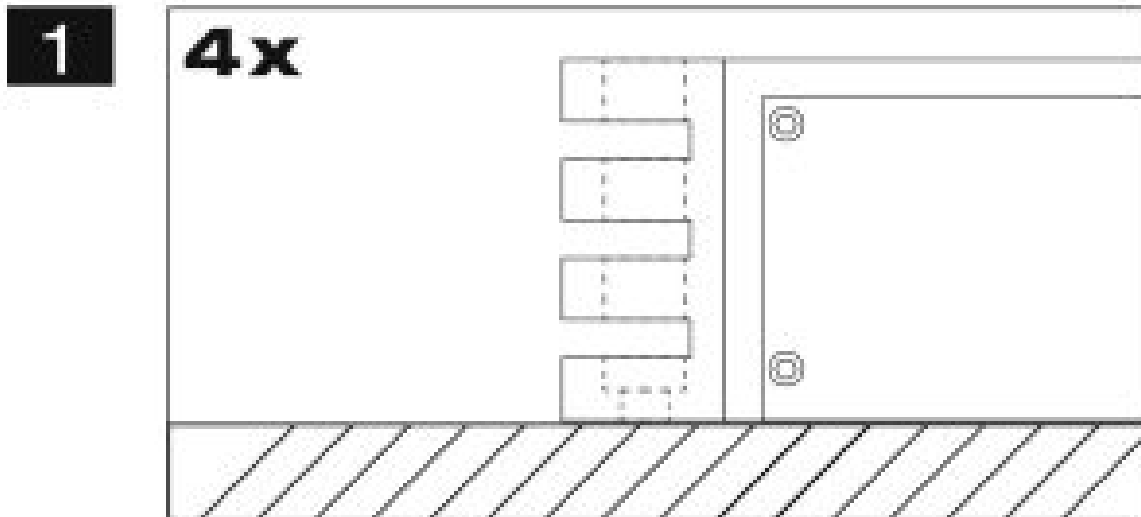
MECHANICAL INSTALLATION

Avoid any damages to the components of the vehicle like airbags, cables, board computers, seat belts, gas tanks, or the like.

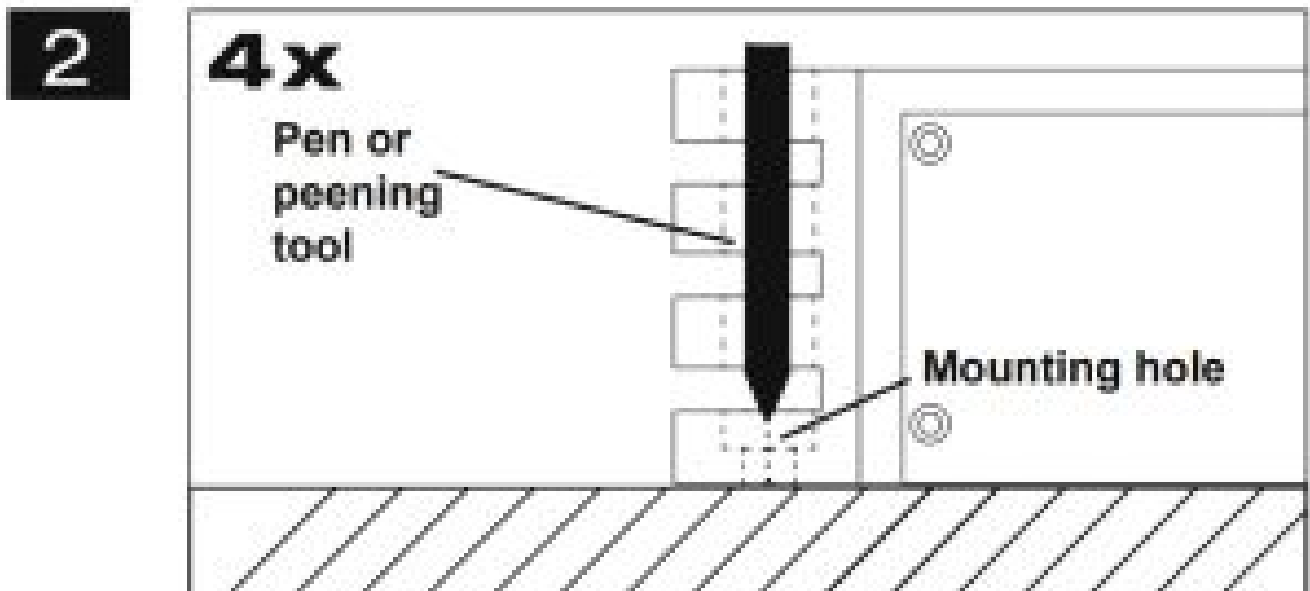
Ensure that the chosen location provides sufficient air circulation for the processor. Do not mount the device into small or sealed spaces without air circulation nearby heat dispersing parts or electrical parts of the vehicle.

Do not mount the processor on top of a subwoofer box or any other vibrating parts, whereby parts could loosen inside.

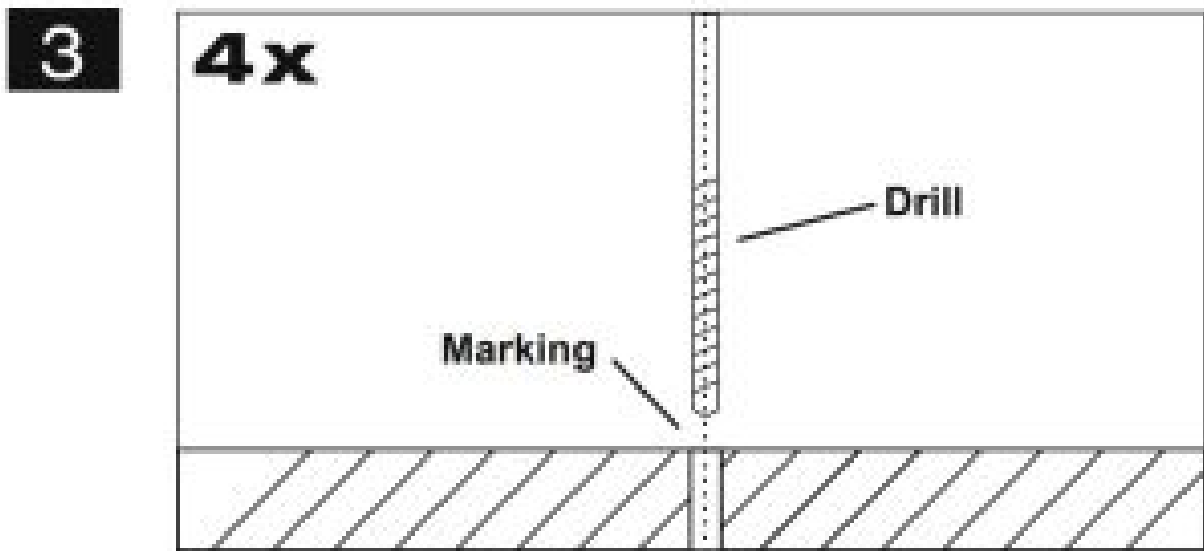
The wires and cables of the power supply and the audio signal must be as short as possible to avoid any losses and interferences.



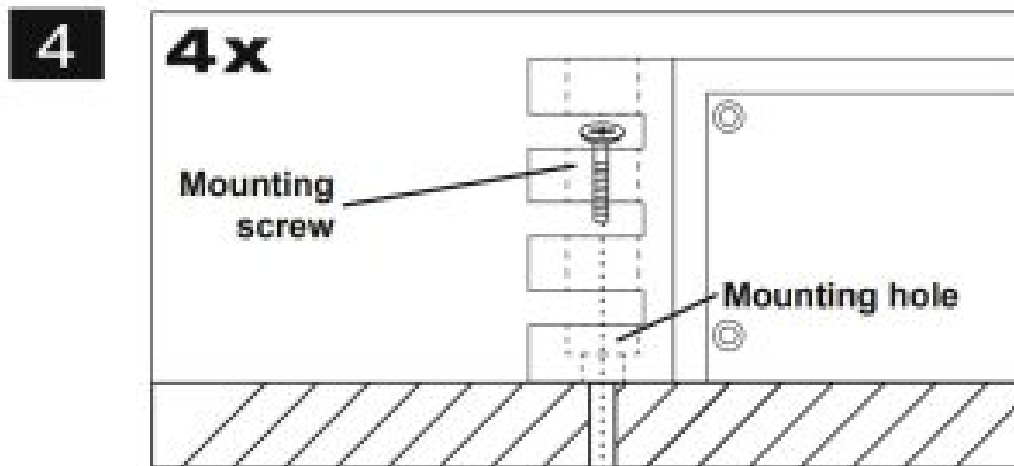
At first, you need to find a suitable installation location for the processor. Ensure that enough space for the installation of the cables remains and that they will not be bent and have sufficient pull relief.



Keep the processor at the chosen mounting location in the vehicle. Then mark the four drill holes with an appropriate pen or peening tool through the designated mounting holes at the processor.



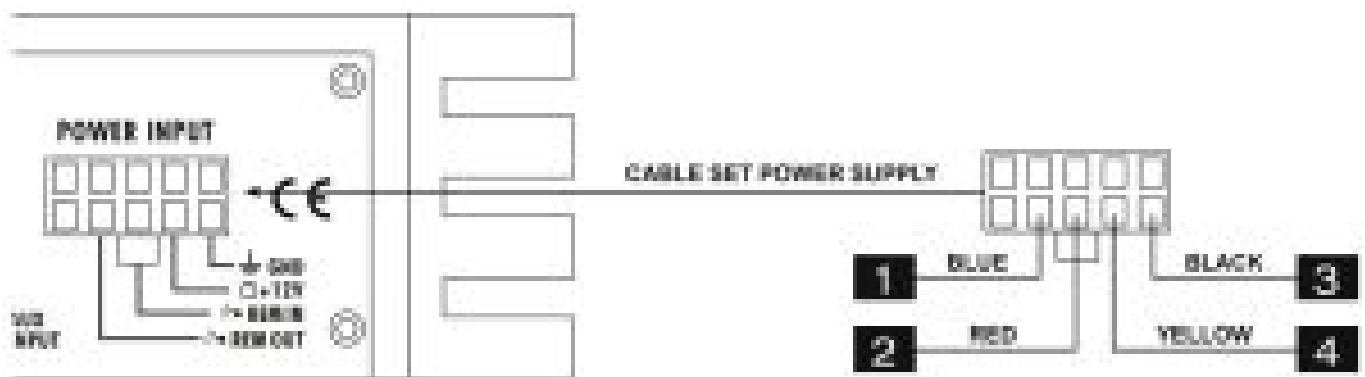
Lay the processor aside and then drill the holes for the mounting screws at the marked locations. Please ensure not to damage any components of the vehicle while you drilling the holes. Alternatively (depending on the material of the surface) you can also use self-tapping screws.



Then uphold the processor to the chosen position and fix the screws through the mounting holes into the drilled screwholes.

Ensure that the mounted processor is tightly fixed and can not come loose while driving.

ELECTRICAL INTERCONNECTION



BEFORE CONNECTING

For the professional installation of a sound system, car audio retail stores offer appropriate wire kits. Ensure a

sufficient profile section (at least 0,75 mm²), a suitable fuse rating (the processor must be protected with an external fuse with 2 A), and the conductivity of the cables when you purchase your wiring kit. Clean and remove rust-streaked and oxidized areas on the contact points of the battery and the ground connection. Make sure that all screws are fixed tight after the installation because loose connections cause malfunctions, insufficient power supply, or interferences.

1. REM OUT

Then with the processor-connected turn-on signal (REM IN) can be forwarded to other devices such as amplifiers. Connect then the REM OUT cable of the processor with the remote port (REM) of the amplifier. Use therefor a suitable cable with a sufficient cross-section (0,5 mm²). Hereby the processor and the amplifier turn on or off with your head unit.

2. REM IN

Connect the turn-on signal (e.g. automatic antenna) or the turn-on remote signal of your head unit with the REM-IN cable of the processor. Use therefor a suitable cable with a sufficient cross-section (0,5 mm²). Hereby the processor turns on or off with your head unit.

AUTO TURN ON

If you operate the processor with the **HIGH-LEVEL INPUT**, you must not connect the REM IN cable. The processor detects by the so-called "DC Offset" (a voltage increase to 6 volts on the high-level speaker outputs) if the head unit is turned on and the processor turns automatically on. As soon as the head unit is turned off, the processor shuts down automatically after approx. one minute.

NOTE: The **AUTO TURN ON** usually works with 90% of all head units, because they are equipped with the "High Power" outputs. Only with a few older head units, the AUTO TURN ON function is not applicable.

The REM OUT cable (see #1) can also be used in AUTO TURN ON operation.

3. GND

Connect this GND wire with a suitable contact ground point on the vehicle's chassis. The ground wire must be as short as possible- ble and must be connected to a blank metallic point at the vehicle's chassis. Ensure that this ground point has a stable and safe electrical connection to the negative "–" pole of the battery. Check this ground wire from the battery to the ground point if possible and enforce it, if required. Use a ground wire with a sufficient cross-section (at least 0,75 mm²) and the same size as the plus (+12V) power supply wire.

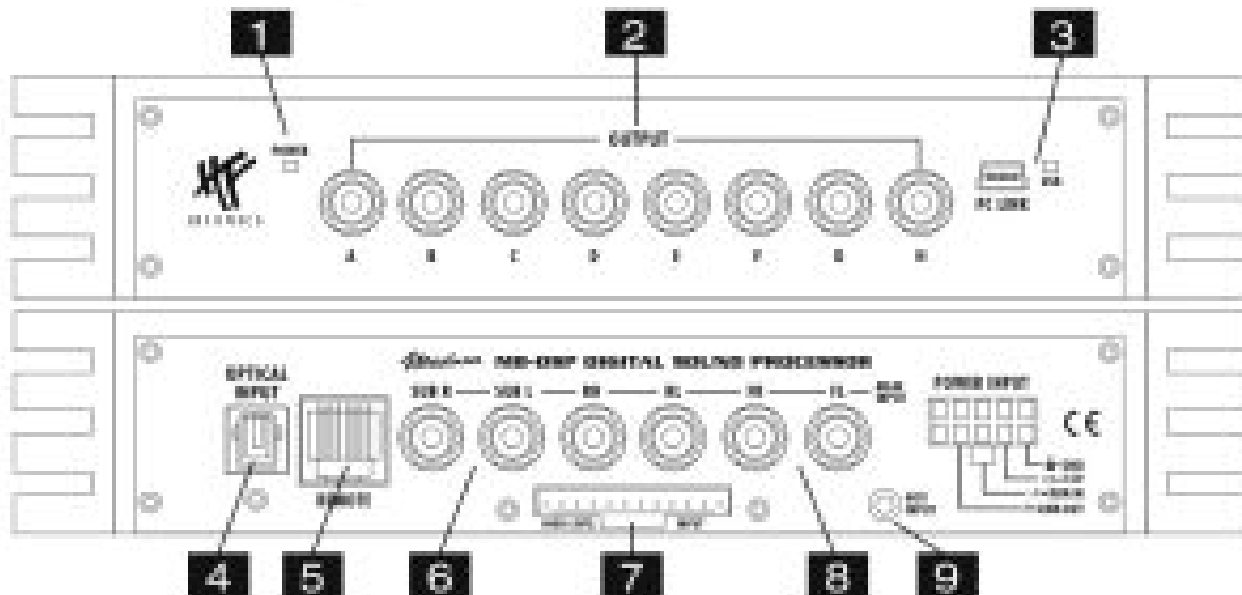
4. +12V

Connect the +12V-cable with the +12V pole of the vehicle's battery. Use a suitable cable with a sufficient cross-section (at least 0,75 mm²) and install an external in-line fuse (2 A). For safety reasons the distance between the fuse block and the battery should be shorter than 30 cm. Do not set in the fuse into the fuse block until the installation is accomplished.

FUNCTIONAL INSTRUCTIONS

PROCESSOR FEATURES AND OPERATIONAL CONTROLS GND

1.



If the POWER LED lights up, the amplifier is ready for operation.

2. The eight **LINE OUT** RCA jacks provides audio signals for amplifiers, which can be modified and configured with the DSP software.
3. If necessary, connect the mini-USB port by using the enclosed USB cable to the computer on which the M-CONTROL software is installed. The connection can be released after using the DSP software.
Do not extend the cable in any way with a passive USB extension because otherwise a flawless communication between the DSP processor and the PC can not be ensured. If you have to bridge longer distances, use an active USB extension with the integrated repeater. The LED next to the USB port lights up blue when a connection between the DSP device and computer is made via the USB cable.
4. The OPTICAL input is suited for a Toslink cable connection with an external audio source that provides a SPDIF signal (sterePCM).
5. The REMOTE port is for the enclosed remote controller. Please refer to the information on the next page.
6. The SUB IN RCA jacks must be connected with the RCA output jacks of the head unit (Subwoofer Output).
7. The HIGH-LEVEL INPUT (enclosed cable set with plug) can be used if your head unit is not equipped with an RCA pre-amplifier output. You can connect then instead of the loudspeaker outputs of your head unit with the high-level input cable set accordingly(refer to the assignment on the next page right above).

Note: Please also refer to the information AUTO TURN ON function on page 19, section #2.

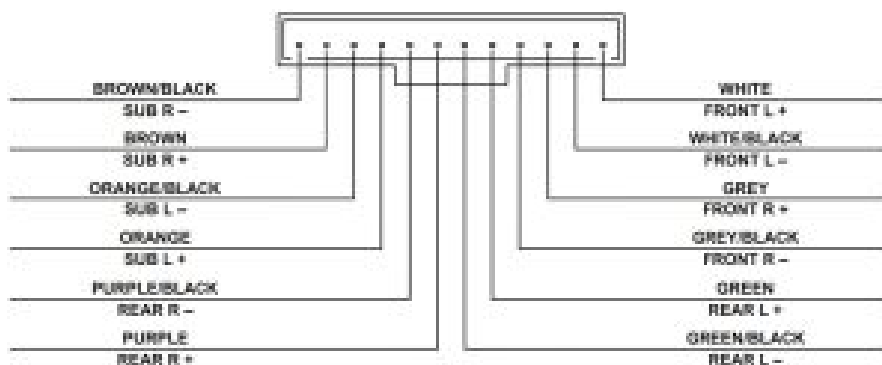


Note: Never use the HIGH-LEVEL INPUT function and the RCA inputs (#6 and #8) at the same time together. This may damage the electronics of the processor.

8. The LINE IN RCA jacks must be connected with the RCA output jacks of the head unit (2 x Stereo Output Front/Rear).
9. The AUX IN 3,5 mm jack can be connected with external audio sources like MP3 players, smartphones, navigation systems.

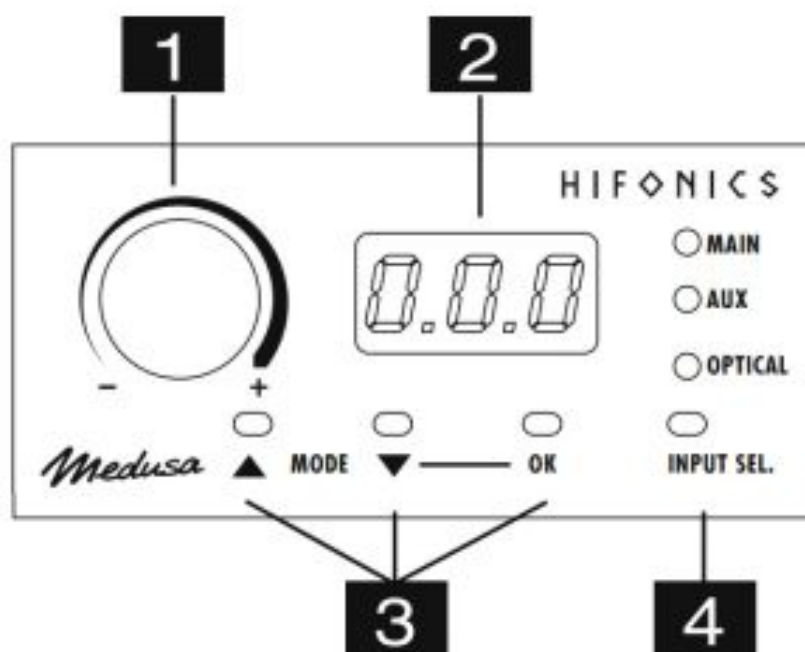
FUNCTIONAL INSTRUCTIONS

ASSIGNMENT CABLE SET HIGH-LEVEL INPUT



REMOTE FEATURES AND OPERATIONAL CONTROLS

1.



With this knob, the overall volume of the sound system can be controlled. If you press and hold the knob for 3 seconds, the bass level of output SUB OUT (G / H) can also be controlled.

2. The LED display shows the values when turning the knob (# 1) or the number of the selected settings.
3. With the two **MODE** buttons, you can choose between the settings, which are stored in the DSP. Use the buttons ▲ ▼ to select the desired setting and confirm with OK (# 3).
4. With the INPUT SEL. button you are able to switch between the signal inputs of the audio sources MAIN, AUX-IN, and OPTICAL.

MAIN is the input LINE IN (Page 6, #6) some SUB IN (Page 6, #5).



Important note: If the remote control is not connected, the DSP works with setting 1 and no settings can be saved.

INSTALLATION OF THE DSP SOFTWARE

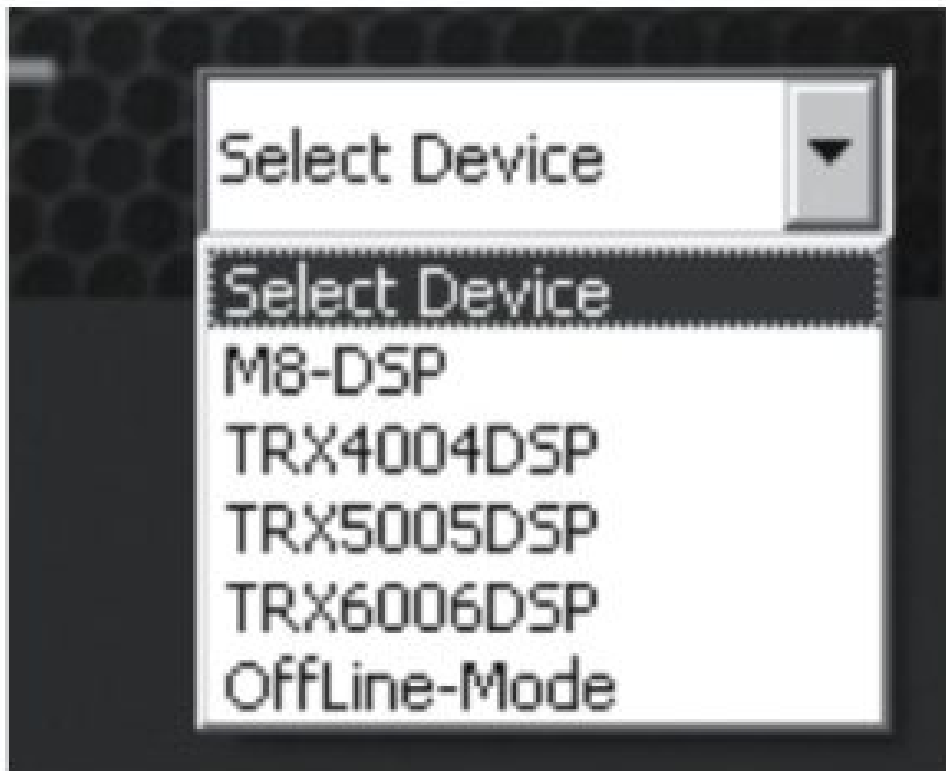
1. The DSP software **M-CONTROL 2** is suitable for all computers with a Windows™ operating system newer than XP and a USB port. The installation requires approximately 25 MB of free space. Due to the principle, it should be used with a portable laptop computer.

2. After downloading the **M-CONTROL 2** software at <http://www.audiodesign.de/dsp>, unpack the downloaded ".rar" file with suitable software such as WinRAR on your PC.
3. Important Note: First, run an "MCU Upgrade" on your DSP device to run M-CONTROL 2 with it. Connect your DSP device via USB cable to the PC on which you have installed M-CONTROL 2. Then, start the "McuUpgrade.exe" file in the "MCU Upgrade" folder of the previously unzipped file. After the start, you do not have to do anything until the update in the terminal window is finished. Then you can close the window.
4. Now you can install M-CONTROL 2 on your PC. To do this, start the "setup.exe" of the previously unzipped file. The installer will guide you through the usual steps. It is recommended to create a desktop shortcut (Create a desktop icon). After the installation, the computer should be restarted.



Important note for 64 bit operating systems: For the 64-bit operating system, you may need to install the 64-bit device drivers manually. You can find the drivers in the unzipped folder too. For 32-bit operating systems, the driver will be installed automatically during the program installation.

PROCESSOR CONFIGURATION WITH THE SOFTWARE



Connect the computer on which you have installed the M-CONTROL 2 software with the DSP processor via the enclosed USB cable. After connecting the devices, start the program on the computer. After starting the program the start screen appears. Select on the bottom right under Select Device your device M8-DSP with the mouse.

Demo Mode (OffLine-Mode)

You can start M-CONTROL 2 even without connecting to the DSP processor in an offline mode and become familiar with the features of the software.



Enable the connection with the DSP in the RS232 Setting. The COM interface should be automatically detected and selected, it varies from system to system. Click then Connect.

The program starts then automatically the connection.

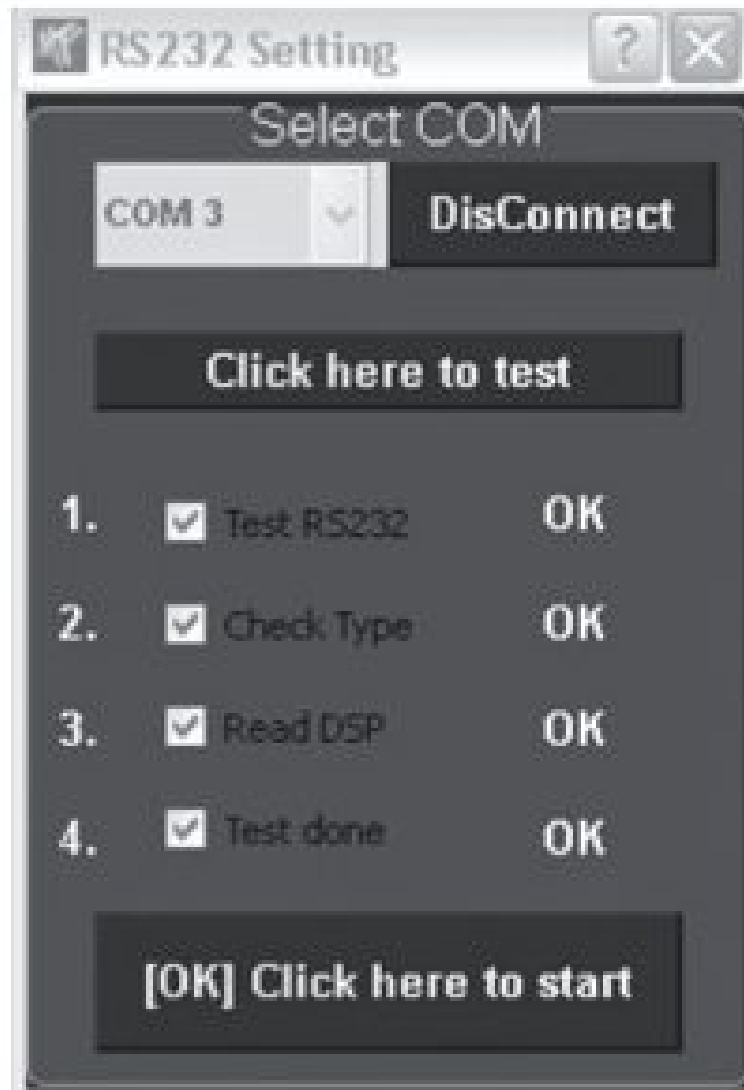
If you cannot continue after selecting Connect, follow the instructions in the chapter troubleshooting section on page 29.



Note: The COM port is automatically assigned by the Windows operating system. Please ensure that the port must be between COM1 and COM9.



Click on Click here to test to check the connection with the DSP device.



If the test was performed successfully 4 checkmarks in the checkboxes appear. Then press „[OK] Click here to start“ to continue.

Should one of the checkmarks not appear, a problem occurred that can lead to a malfunction. Please refer to the following instructions.

Error:

„ERROR“ message in the connection between DSP device and your computer

Reason 1:

The DSP device is in PROTECT mode (protection circuit) or turned off.

Note: The POWER LED and the USB LED must light up blue.

Remedy:

Correct the cause

Reason 2:

The „MCU Upgrade“ on the DSP device (see the previous page), was not performed correctly or not.

Remedy:

Run the „MCU Upgrade“ again.

Error:

„The COM port could not open...“ message in the connection between the DSP device and your computer

Reason:

In the connection window after the software start the wrong COM port has been selected or defined.

Remedy:

Select the correct port. Check if necessary the port in the Device Manager of Windows under „Ports (COM & LPT) „USB-Serial CH340“.

The entry can be found at:

Settings > Control Panel > Administrative Tools > Computer Management > Device Manager > Ports (COM & LPT)

USER INTERFACE OF THE SOFTWARE



Here you can make countless settings and adapt them to your sound system, which can be heard immediately in real-time via the DSP device. As soon as you are finished configuring a setting, it can be transferred to one memory location in the DSP device. You can store up to 10 different settings and select the remote control at any time during operation. The following section explains the various functions of the M-CONTROL 2 user interface.



1. LINK TO DEVICE: Connects the PC via USB to the DSP device.
2. Channel Setting: Opens a dialog box where you can select the configurations for your desired sound system. There you can freely define the assignment of the inputs (INPUT) and outputs (OUTPUT) per channel on the DSP device.
In „SPEAKER TYPE“, you can select the desired speaker for each channel. This means that the appropriate parameters are already present at the respective channel, and you only have to perform the fine adjustment.
„MIX“ must be selected when using the high-level inputs on the DSP device. The audio signal is summed.
Under „2CH“, „4CH“ or „6CH“ (input assignment), you can select an already preset sound system variant, which you can set beforehand. All you have to do is make the fine adjustment.
3. Open: Opens a previously saved setting on the PC.
4. Save: Saves a setting in a file on the PC with the current filename used. If no filename has been selected before, you can specify any filename in the following dialog.
5. SaveAs: Saves the setting under a different filename, which you can specify in the following dialog.
6. Factory Setting: Resets all settings to the factory default.
7. Under „PRESETS ON THE DEVICE“, you can read, delete or assign the memory locations (POS1 – POS10) for the individual settings on the DSP unit. First select the memory location ((POS1 – POS10), because you want to edit or readout.
WRITE*: Saves the currently created setting in the DSP device to the previously selected memory location.
READ*: Reads the previously selected memory location from the memory of the DSP device.

DELETE*: Deletes the previously selected memory location from the memory of the DSP device.

Note: Always store the settings numerically (POS 1, POS 2, POS 3, ...) so that they can be accessed with the remote control.

FUNKTIONSHINWEISE

There should be no memory location left unoccupied, otherwise, the following settings can not be called up.

• Important: The enclosed remote control must be connected to the DSP device.

8. Under „SOURCE“, you can select between the input sources SPDIF (optical input), MAIN (RCA/Cinch audio inputs), AUX (RCA / RCA stereo input) and WiFi (optional).
9. Under „CHANNEL SETTING“ you can link the respective channel pairs for L and R with the lock symbol in the middle to synchro- size the settings for both channels. With „L > R COPY“ you can also copy the setting of the currently selected left channel to the right channel.
10. „SLOPE“ allows you to specify the slope of the highpass (HP) or lowpass filter (LP) on the currently selected channel, which can be selected from 6dB per octave (very flat) to 48dB per octave (very steep) in 6dB steps.
Note: The HP or LP control panel is inactive (gray) when under CROSSOVER HP, LP, or BP is not selected accordingly.
11. Under „CROSSOVER“ you can define the desired filter type (OFF, HP, BP, or LP) on the currently selected channel. The frequent- cry of the filters can be adjusted with the controllers next to HP and LP. The controllers are only active when the filter is activated.
Once a filter type has been selected, the filter is displayed graphically in the frequency band preview.
Note: When the filter is selected, the cut-off frequency can also be changed directly in the frequency band preview with the mouse. Click and hold the point on the dividing line and move the mouse to the desired location on the frequency band.
Hint: Instead of the slider, you can also enter the cut-off frequency directly by double-clicking on the values next to it with the keyboard. Press ENTER to confirm.
12. Under „MAIN“ at „GAIN“, you can set the output volume (-40dB to + 12dB) of the DSP device. Caution: Use this knob carefully.
Too loud a level could damage your speakers.
With „MUTE“, you can switch the mute function on and off.
13. Under channel sections A to H, you can make the following settings for the selected channel
 - With „GAIN“ you can reduce the level from 0dB to -40dB.
 - Use the „MUTE“ button to mute the channel.
 - With „PHASE“ you can switch the phase from 0° to 180°.
 - With „DELAY“ you can set a delay time correction of the signal. See „TIME ALIGNMENT“ on the next page.
 - By clicking on the „CM“ box, the „DELAY“ unit can be switched from centimeter (cm) to millisecond (ms).With the „PHASE“ and „DELAY“ parameters, you can adjust the sound system optimally to your vehicle's acoustics and make a perfectly fine adjustment of the acoustic stage.
14. The frequency band preview shows graphically the envelope of the 31-band equalizer as well as the settings currently selected under “CROSSOVER” of the respective selected channel. There, you can also change the respective values as you like by moving- ing the breakpoints of the respective parameters displayed.
15. In the parametric 31-band equalizer (channel A – F) the desired dB value can be set in the currently selected channel (-18 to +12) between 20 Hz and 20000 Hz with the faders. For subwoofer channels (channel G & H), the 11-band equalizer can be set

between 20 Hz – 200 Hz.

Below the individual controls, the EQ quality can be entered under “Q” by numerical value (0.5 for very flat – to 9 for very steep).

The desired numerical value for the parametric equalizer can be entered in the input boxes F(Hz).

“BYPASS” switches the equalizer function on or off.

With “RESET” you reset all settings of the equalizer (all other parameters are not affected).

With “COPY EQ” you can copy the entire settings of the equalizer and paste it with “PASTE EQ” to another channel.



16. In the „TIME ALIGNMENT“ section you have the possibility to calculate the run-time correction of the individual channels by M- CONTROL 2, to optimally align the sound system and the DSP device to the acoustic stage center. To do this, follow these steps:

First measure the distance of all loudspeakers of the sound system to the acoustic stage center (for example, the driver's seat at the ear level of the driver).

- Then enter the measured distance values under „TIME ALIGNMENT“ for each channel in the corresponding input field in time- ters (CM).
- When you have entered all the distance values, press “DelayCalc”. M-CONTROL 2 then calculates the appropriate parameters and transfers them automatically to the respective channel from A to H. Then you can fine-tune the channel sections with the “Delay” slider.
- With “Reset” you can reset all values.
- With the loudspeaker symbol in each channel you can mute the respective channel.



17. Under „REMOTE SETTING“ you are able to select, which channel pair (EF Channel or GH Channel) you want to control the bass level with the connected remote controller. Therefore, always select the channel pair, on which you have connected the subwoofer.

SPECIFICATIONS

MODELL	M8-DSP
Frequency Range –3dB Signal-to-Noise Ratio Channel Separation THD&N Input Sensitivity Input Impedance DSP Processor Signal Output Signal Input Optional Inputs	5 Hz – 20 kHz > 110 dB > 60 dB 0,05% 5 – 0,3 V > 47 kOhms Cirrus Logic Single Core 32 bit, 8 channel, 192 kHz 8 x RCA 6 x RCA TOSLINK (optical 12 ~ 96 kHz, stereo) AUX (3,5 mm jack, stereo)
M-CONTROL 2.0.3 DSP-Software	for Microsoft Windows™ XP SP3, Vista, 7, 8, 8.1 10 Presets, Gain -40 ~ +12dB 6 x 31-Band Equalizer, 2 x 11-Band Equalizer, -18 ~ 12 dB, Q 0,5 ~ 9 Setting range 20 ~ 20.000 Hz (Outputs A-F), 20 ~ 200 Hz (Outputs G-H) 6 ~ 48 db/Oct. HP/BP/LP Time Delay 0~15 ms/0~510 cm Phase Shift 0°/180°
Remote Controller with LED-Display	for Master Volume, Subwoofer Volume, Input Selection, Mode Selection
Dimensions Width x Height x Length	120 x 40 x 216 mm

Technical specifications are subject to change! Errors are reserved!

TROUBLESHOOTING

Malfunction: no function

Reason:
<ol style="list-style-type: none"> 1. The power supply connection of the device is not correct 2. The cables have no mechanical or electrical contact 3. The remote turn-on connection from the head unit to the processor is not correct 4. Defective Fuses. In case of replacing the fuses, ensure the correct fuse rating

Malfunction: no signal on loudspeakers, but power LED lights up

Reason:	Re
<ol style="list-style-type: none"> 1. The connections of the speakers or the RCA audio cables are not correct Recheck 2. The speaker cables or the RCA audio cables are defective Replace cables 3. The loudspeakers are defective Replace speakers 4. HP controller in LP/BP operation is adjusted too high Turn down the controller 5. No signal from the head unit Check head unit settings 6. A wrong input source under INPUT SOURCE is selected, which is not connected (e.g. AUX IN) Check selection 7. For example on one or more channels „Mute“ is activated in the DSP software. Check settings 8. The volume level on the remote controller is adjusted too low Turn up the volume level on the remote 	Re Re Re spe Tur Che Che Che Tur

Malfunction: one or more channels or controllers are without function / faulty stereo stage

Reason:
<ol style="list-style-type: none"> 1. The balance or fader controller of the head unit is not in the center-position 2. The connections of the speakers are not correct 3. The loudspeakers are defective 4. HP controller in LP/BP operation is adjusted too high 5. For example on one or more channels „Delay“ or „Phase“ is incorrectly set in the DSP software.

Malfunction: distortions on the loudspeakers

Reason:	Rem
1. The loudspeakers are overloaded 2. Amplifier is clipping	Turn down the level Turn down the level on the head unit Switch off loudness on the head unit Reset bass EQ on the head unit

Malfunction: no bass or stereo sound

Reason:	
1. Interchange of loudspeaker cable polarity 2. The RCA audio cables are loose or defective 3. For example on one or more channels „Delay“ or „Phase“ is incorrectly set in the DSP software.	Reconr Reconr Check

Malfunction: hiss or white noise on the loudspeakers

Reason:	
1. The level controllers in the DSP software are turned up too loud 2. The treble controller on the head unit is turned up 3. The speaker cables or the RCA audio cables are defective 4. The hissing is caused by the head unit	Turn down the level Turn down the level c Replacing the cables Check the head unit

Malfunction: no subwoofer sound

Reason:	
1. The volume of the subwoofer output (channel G / H and SUB OUT) is set too low on the remote control. 2. DSP-Software is set incorrectly.	Press th Turn up (Refer to Check a

Malfunction: „ERROR“ message in the connection between DSP device and your computer

Reason:	
1. The DSP processor is turned off. Note: The POWER LED and the USB LED must light up blue.	Rerr

Malfunction: „The COM port could not open...“ message in the connection between DSP device and your computer

Reason:	Remedy:
1. In the connection window after the software starts the wrong COM port has been selected or defined.	Select the correct port. Check if necessary the ports under „Ports (COM & LPT) „USB-Serial CH3

Malfunction: The stored settings can not be called upon the remote control via the mode button

Reason:	Re
1. The settings must be saved numerological (POS1, POS2, POS3, ...)	Save the settings always nume

Please refer also in case of malfunction to the user manuals of the other devices of the sound system such as an amplifier or head units.

NOTES



DESIGN
Audio Design GmbH
Am Breilingsweg 3 · D-76709 Kronau/Germany
Tel. +49 7253 – 9465-0 · Fax +49 7253 – 946510
www.audiodesign.de
© Audio Design GmbH, All Rights Reserved

Documents / Resources

A black rectangular DSP processor unit with the HIFONICS Medusa logo and "M8-DSP" printed on it.	HIF-NICS 8-Channel DSP Processor M8-DSP [pdf] Owner's Manual HIF-NICS, 8-Channel, DSP, Processor, M8-DSP
--	---