

MATCH UP 7DSP

7-channel UPGRADE amplifier

MATCH
BY AUDIOTEC FISCHER



Features

- 7-channel Class HD upgrade amplifier with integrated 8-channel 64 Bit DSP for universal applications
- MATCH Extension Card slot (MEC) for additional input / output modules like Bluetooth® Audio Streaming, High Resolution Audio Streaming via USB etc.
- Smart highlevel input with ADEP.3 circuit (Advanced Diagnostics Error Protection) and Auto Turn-On function
- Unique DSP Sound Effects such as the “Augmented Bass Processing” which dynamically optimizes the bass response of the subwoofer, the “StageXpander” that significantly widens the stereo perspective, the “RealCenter” function, which allows a perfectly focused sound staging for both driver and co-driver and much more
- Cable harness with open wire ends for universal installation included
- Start-Stop capability down to 6V supply voltage
- Optical input in SPDIF format with sampling rate between 12 and 96 kHz
- Mono RCA output for the connection of an external amplifier e.g. subwoofer amplifier
- Compact dimensions and low heat dissipation thanks to maximum efficiency

MATCH

Special DSP sound effects

RealCenter

The “RealCenter” feature is an algorithm, developed by Audiotec Fischer, that emphasizes the music information which is present in both the left and right front channel to create an unique center signal. In contrast to common procedures in which only the channels are summed up, the intensity of the center signal is also dynamically controlled by the stereophonic informational content of the left and right channel.

Sounds complicated but this effect is astonishing: That means if solely the left or right channel delivers an audio signal, the center channel will not reproduce a signal. In the case of common algorithms, the volume level of the center channel is only reduced by 6 dB (= half volume level).

Audiotec Fischer’s “RealCenter” allows a unique, broadened sound staging for both driver and co-driver at the same time! Therefore, the disadvantages of a conventional center channel such as an intrusive, small sound stage are things of the past.

Augmented Bass Processing

Audiotec Fischer’s proprietary “Augmented Bass Processing”, consisting of the two revolutionary sound features “Dynamic Bass Enhancement” and “SubXpander”, has been especially developed to dramatically improve the bass reproduction of subwoofers.

The “Dynamic Bass Enhancement” ingeniously combines maximum deep bass and highest sound pressure - regardless of the music style or the tone controls in the head unit. Depending on the input signal, the “Dynamic Bass Enhancement” gains the lower frequency range and varies the cut-off frequency of the subsonic filter. The result is a significantly more powerful and deeper bass response at low and medium volume levels without the risk of overloading the subwoofer, neither mechanically nor electrically at high volume levels. It is simply fascinating which bass performance is suddenly possible.

If you want an even lower and “darker” bass reproduction, the “SubXpander” can be additionally activated. Therefore, subharmonic tones are added to the fundamental tones in the frequency range between 50 and 100 Hz.

StageXpander

Depending on the speaker arrangement in the vehicle, a more or less wide stereo sound stage can be created at the front seats. A center speaker may limit the spatial reproduction of the music additionally. This is where Audiotec Fischer’s new “StageXpander” comes into play – a sound feature which seems to break the acoustic limitations and thus allows to create a way broader stereo base without negatively affecting the precision of the localization of voices or instruments!

The effect can be adjusted according to your personal preferences in four steps.

ClarityXpander

You are looking for more transparency and substance in the treble reproduction? With the “ClarityXpander” Audiotec Fischer is now offering the right tool.

Properly adjusted (and therefore selectable in three steps) the feature adds additional harmonics in the upper frequency range – this is especially useful if the original speakers lack some brilliance in the treble response. The extra treble-kick is not only available for the two front channels but also separately adjustable for the center channel.

Even better - the center channel allows to activate an automatic and dynamic control so that music with “loads” of treble doesn’t fatigue your hearing.

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Highlights

- Very compact and extremely powerful 7-channel DSP amplifier
- Subwoofer outputs with high output power and 2 Ohms stability
- Unique DSP Sound Effects – “Augmented Bass Processing”, “StageXpander”, “RealCenter”, etc.
- MEC Slot and processed RCA output for individual extension of the system

Technical Data

Output power RMS / max.		DSP type	Audio signal processor
- @ 4 Ohms	5 x 65 / 130 Watts (Front / Rear / Center channels)	Signal converters	A/D: BurrBrown D/A: BurrBrown
- Subwoofer output @ 2 Ohms	2 x 160 / 320 Watts	Signal-to-noise ratio digital input	105 dB (A-weighted)
Amplifier technology	Class HD	Signal-to-noise ratio analog input	103 dB (A-weighted)
Inputs	4 x Highlevel speaker input 1 x Optical SPDIF (12 - 96 kHz) 1 x MEC 1 x Remote In	Distortion (THD)	< 0.03 %
Input sensitivity	Highlevel 5 - 11 Volts	Damping factor	> 100
Input impedance highlevel	13 Ohms	Operating voltage	10.5 - 16 Volts (max. 5 sec. down to 6 Volts)
Outputs	7 x Speaker output 1 x RCA / Cinch 2 x Remote Out	Idle current draw	450 mA
Output voltage RCA	3 Volts RMS	Max. remote output current	500 mA
Frequency response	20 Hz - 22,000 Hz	Fuse	2 x 25 A LP-Mini-fuse (APS)
DSP resolution	64 Bit	Additional features	Class HD technology with dynamically controlled power supply, ADEP.3 circuit, Start-Stop capability, Control Input, USB, MEC slot, Auto Remote switch, galvanically isolated Line Out
DSP power	295 MHz (1.2 billion MAC operations/ second)	Dimensions (H x W x D)	46 x 130 x 153 mm / 1.81 x 5.12 x 6.02"
Sampling rate	48 kHz	Delivery content	1 x Amplifier UP 7DSP 2 x Connection cable 1 x Mounting plates & material 1 x USB cable

