

MAC AUDIO



CAR HIFI
2015/16



**MAC
AUDIO**



Feel the Music

Your attention please: you'll quickly become „Slave to the music“ or „Slave to the rave“ because you'll become addicted once the Mac Audio car hi-fi gets going! Our tip: consult Dr Bass or Professor Power at your Mac Audio dealer about the risks and side effects associated with the Mac Audio's supersonic handling of thrust in your car.

Many car hi-fi manufacturers claim that their components generate a powerful and meaty sound. But such claims usually only apply to users who already get earaches at normal volumes.

Mac Audio is different. Louder. More honest. More direct. More full of bass.

In short: the experience is of a hurricane of sound as opposed to that of a mild breeze. The power of this sound accompanies you everywhere you go -- because it lives in your car.

For over 35 years, the engineers at Mac Audio have been successfully turning cars into powerful beat boxes. Passion, lifeblood, immense knowledge and an unrestrained desire to achieve have produced ever new stages of evolution and sometimes even revolution in the best of sound for cars.

Mac Audio believes in legends – in those that it creates itself. No use looking to ancient Rome for the Maximus 300 woofer because you'll find it punching you in the gut in modern cars. And Mac Audio's „Ali“, the Aliante Black Limited, packs a bass punch that would even make the fists of the legendary boxer with the same name look weak. But these expressive subwoofers bank work to one principle in particular: concentrated technology creates concentrated fascination. Realised with spirit in conjunction with experience. Such component systems as the already almost legendary CFX 2.16 also carry the success that the car hi-fi masters enjoy at Mac Audio forward. Why Mac Audio is so successful? Simple – – great success is the sum of top-class ingredients. And, with a feeling for the market, best-possible component groups, greatest care in workmanship and massive knowledge, Mac Audio has always been able to create the perfect package.

Nothing is too much for the continuous striving towards the highest of standards by the „Masters of Sound“ at Mac Audio. Continuous material load tests and laser-finishing technologies ensure that product standards remain consistently outstanding.

Which means that „Beatbox Rockers“ who highly appreciate the lowest bass, perfect mid-range and clear trebles will be continuing to turn to the best for the next 35 years.



LOUDSPEAKERS

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SUBWOOFER

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AMPLIFIERS

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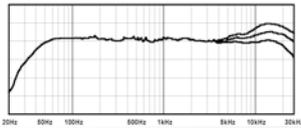
**ACCESSORIES &
PACKAGES**

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Technology

PRO FLAT TECHNOLOGY

Mac Audio's latest "Pro Flat Technology" offers an incredibly shallow profile. The special shape of the extra-light paper cone, the internally mounted high-power ferrite magnet and the specially shaped „Dynamic“ foam surround are a perfect combination.



Frequency response measurement with tweeter level adjustment.

White LED illumination

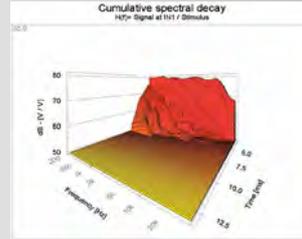
White LED illumination for noble optics.



Klippel®-optimized magnetic field symmetry.

HD

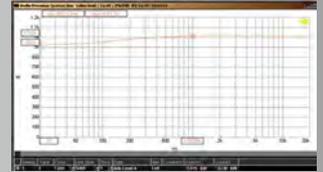
High Definition: Multiple embroidered logo using special yarn for a 3D effect



Excellent decay behaviour over the entire frequency range, waterfall diagram.

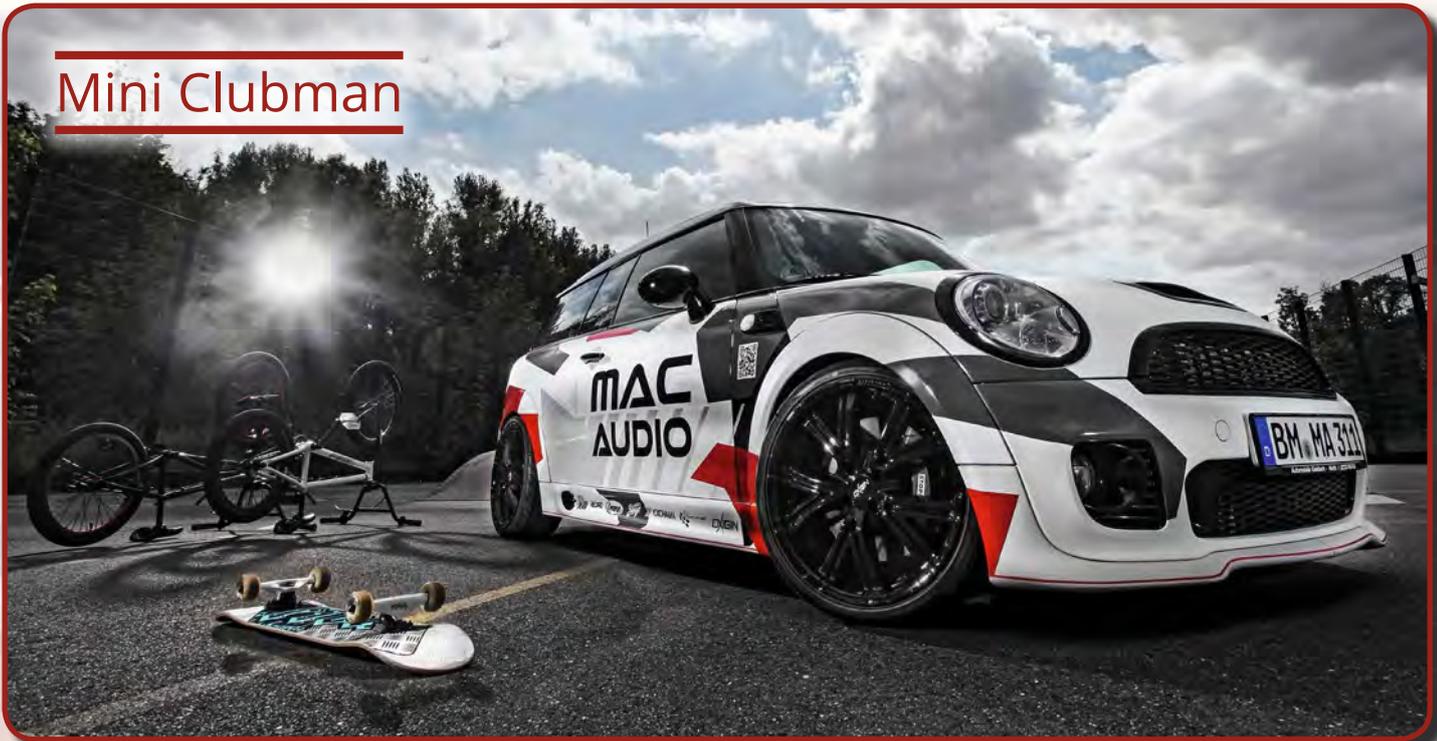
Active subwoofer with Digital amplifier

Active Subwoofer with digital, powerful amplifier module.



Amplifier power measurement.

Mini Clubman



SCAN FOR MORE INFORMATION



Star X

- DIN aluminium basket with diamond cut and additional voice coil ventilation
- 1.5" high power voice coil
- Klippel®-optimized magnetic field symmetry
- High-power magnet system (Y 35) with chromed pole plate
- Highly flexible rubber surround for maximum cone travel
- Aluminium cone and aluminium phase plug
- Gold-plated terminal
- 25 mm silk dome tweeter with additional enclosure
- High-glossy black speaker grille with diamond cut aluminium logo
- External crossover including adjustable tweeter phase and tweeter level control



Autohifi 01/12



	STAR X 2.16
System	2-way compo
Power handling	200/600 W
Impedance	4 Ω
Frequency Response	30 - 30 000 Hz
SPL	91 dB
DIN-Ø	165/25 mm
Cutting out	142/35 mm
Mounting depth	71/22 mm



Star Flat

- Euro Din basket for universal usage
- Low mounting depth due to **PRO FLAT TECHNOLOGY**
- Solid steel basket with low-resonance structured coating
- Internal high power ferrite magnet system
- Dynamic foam surround for high efficiency
- Coated Star Flat cellulose cone (woofer)
- 19 mm titanium tweeter dome (2.16, 2.13)
- Titanium-coated polycarbonate (tweeter) (16.2, 13.2, 10.2)
- Multi-part protection grille including diamond cut logo and black-rubber coating
- Separate 12 dB crossover (2.16, 2.13)

PRO FLAT TECHNOLOGY

The innovative Pro Flat technology from Mac Audio ensures a particularly low installation depth of no more than 45 mm.

min. 35 mm
max. 45 mm



Star Flat 2.16



Star Flat 2.13



Star Flat 16.2



Star Flat 13.2



Star Flat 10.2

	STAR FLAT 2.16	STAR FLAT 2.13	STAR FLAT 16.2	STAR FLAT 13.2	STAR FLAT 10.2
System	2-way compo	2-way compo	2-way coaxial	2-way coaxial	2-way coaxial
Power handling	100/300 W	80/280 W	80/280 W	70/250 W	60/200 W
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	32 – 28.000 Hz	34 – 28.000 Hz	32 – 28.000 Hz	36 – 28.000 Hz	38 – 28.000 Hz
SPL	91 dB	90 dB	91 dB	90 dB	89 dB
DIN-Ø	165 mm/19 mm	130 mm/19 mm	165 mm	130 mm	100 mm
Cutting out	143 mm/46 mm	118 mm/46 mm	143 mm	118 mm	94 mm
Mounting depth	45 mm/20 mm	42 mm/20 mm	45 mm	42 mm	35 mm

Performance X

- Euro DIN basket for universal usage
- Black high-gloss powder-coated steel basket
- High power magnet with Mac Audio protection ring
- Suspension and magnetic field optimized with KLIPPEL® measurement system
- Additional voice-coil ventilation for better power handling and less mechanical damping
- Low-distortion IPP cone with honeycomb structure
- Phase plug for optimised phase-shift and additional cooling(2.16 & 2.13)
- Rubber surround for maximum excursion
- External crossover with tweeter protection (2.16 & 2.13)
- Solid protection cover in hexagon style



Performance X 2.16



Performance X 2.13



Performance X 69.3



Performance X 16.2



Performance X 13.2



Performance X 10.2

	Performance X 2.16	Performance X 2.13	Performance X 69.3	Performance X 16.2	Performance X 13.2	Performance X 10.2
System	2-way compo	2-way compo	3-way triaxial	2-way coaxial	2-way coaxial	2-way coaxial
Power handling	100/400 W	80/320 W	120/480 W	80/320 W	70/280 W	60/20 W
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	32 - 26 000 Hz	33 - 26 000 Hz	32 - 26 000 Hz	33 - 26 000 Hz	35 - 26 000 Hz	37 - 26 000 Hz
SPL	90 dB	90 dB	91 dB	90 dB	90 dB	89 dB
DIN-Ø	165 mm/13 mm	130 mm/13 mm	6 x 9"	165 mm	130 mm	100 mm
Cutting out	143/40 mm	112/40 mm	220 x 150 mm	143 mm	112 mm	94 mm
Mounting depth	62/20 mm	53/20 mm	84 mm	62 mm	59 mm	52 mm

MPEexclusive

- Solid steel basket with additional voice coil ventilation
- Injection polypropylene cone with additional edge reinforcement
- Long excursion rubber surround
- Aluminium coated tweeter cone
- Aluminium coated midrange cone (69.3)
- Magnet protection cover in Mac Audio design
- Suspension and magnetic field optimised with KLIPPEL® measurement system
- Design protection cover with aluminium diamond-cut logo



MPEexclusive 2.16



MPEexclusive 2.13



MPEexclusive 69.3



MPEexclusive 16.2



MPEexclusive 13.2



MPEexclusive 10.2

	MPE 2.16	MPE 2.13	MPE 69.3	MPE 16.2	MPE 13.2	MPE 10.2
System	2-way compo	2-way compo	3-way triaxial	2-way coaxial	2-way coaxial	2-way coaxial
Power handling	70/280 W	60/240 W	80/360 W	70/280 W	60/240 W	50/200 W
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	36 - 26 000 Hz	38 - 26 000 Hz	36 - 25 000 Hz	38 - 24 000 Hz	40 - 24 000 Hz	45 - 24 000 Hz
SPL	90 dB	90 dB	91 dB	90 dB	90 dB	89 dB
DIN-Ø	165 mm/19 mm	130 mm/19 mm	6 x 9"	165 mm	130 mm	100 mm
Cutting out	142/39 mm	113/39 mm	220 x 153 mm	142 mm	113 mm	94 mm
Mounting depth	57/12 mm	52/12 mm	78 mm	57 mm	52 mm	49 mm

APM FIRE

- Multi-layer coated cellulose cone
- Light foam surround for high efficiency
- Solid steel basket including additional voice coil ventilation
- Anodised tweeter
- Anodised midrange (69.3 & 20.3)
- Suspension and magnetic field optimised with KLIPPEL® measurement system
- Solid protection cover with aluminium diamond cut logo
- Incl. mounting accessories for the tweeter



APM Fire 2.16



APM Fire 2.13



APM Fire 69.3



APM Fire 20.3



APM Fire 16.2



APM Fire 13.2



APM Fire 10.2

	APM FIRE 2.16	APM FIRE 2.13	APM FIRE 69.3	APM FIRE 20.3	APM FIRE 16.2	APM FIRE 13.2	APM FIRE 10.2
System	2-way compo	2-way compo	3-way triaxial	3-way triaxial	2-way coaxial	2-way coaxial	2-way coaxial
Power handling	65/260 W	60/240 W	70/280 W	70/280 W	55/220 W	50/200 W	45/180 W
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	45 - 20 000 Hz	50 - 20 000 Hz	40 - 20 000 Hz	38 - 20 000 Hz	45 - 20 000 Hz	50 - 20 000 Hz	55 - 20000 Hz
SPL	90 dB	90 dB	91 dB	91 dB	90 dB	90 dB	89 dB
DIN-Ø	165 mm/13 mm	130 mm/13 mm	6 x 9"	200 mm	165 mm	130 mm	100 mm
Cutting out	144,5 mm	114 mm	222 x 152 mm	178 mm	144,5 mm	114 mm	92 mm
Mounting depth	58 mm	53 mm	76 mm	76 mm	58 mm	53 mm	46 mm



Mac Mobil Street

- Multi-layer coated cellulose cone
 - Solid steel basket
 - with additional voice coil ventilation to increase the maximum power handling
 - with low mounting depth (2.16 F & 16.2F)
 - Light foam surround for high efficiency
 - Anodised tweeter in titanium style
 - Additional voice coil ventilation to increase the maximum power handling (2.16 F)
 - Tweeter including installation accessories, built in/on holder (2.16 F)
 - Tweeter flange with acoustic EQ in Mac Audio design
 - Suspension and magnetic field optimised with Klippel® measurement system
- T19:
- Anodized tweeter with acoustic EQ and neodymium drive
 - Including universal mounting accessories



Just 42 mm

MMS 2.16 F



Just 40 mm

MMS 16.2 F



MMS 915.2



MMS 57.2



MMS 16.2



MMS 13.2



MMS 10.2



MMS 87.2



MMS T19

	MMS 2.16F	MMS 16.2F	MMS 915.2	MMS 57.2	MMS 16.2	MMS 13.2	MMS 10.2	MMS 87.2	MMS T19
System	2-way compo	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	2-way coaxial	0.75" tweeter
Power handling	60/240 W	50/200 W	40/160 W	50/200 W	50/200 W	45/180 W	40/160 W	35/140 W	30/120 W
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	40 - 21000 Hz	43 - 21000 Hz	46 - 21000 Hz	39 - 21000 Hz	38 - 21000 Hz	41 - 21000 Hz	46 - 21000 Hz	52 - 21000 Hz	3800 - 23000 Hz
SPL	91 dB	90 dB	89 dB	91 dB	91 dB	90 dB	89 dB	88 dB	90 dB
DIN-Ø	165/13 mm	165 mm	4 x 6"	5 x 7"	165 mm	130 mm	100 mm	87 mm	13 mm
Cutting out	142 mm	142 mm	87 x 144 mm	126 x 181 mm	142 mm	119 mm	93 mm	79 mm	
Mounting depth	42 mm	40 mm	46 mm	54 mm	55 mm	46 mm	42 mm	35 mm	
Suitable for	Alfa Romeo, Audi, BMW, Chevrolet, Chrysler, Citroen, Daewoo, Dodge, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel, Peugeot, Renault, Rover, Saab, Seat, Skoda, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Chevrolet, Chrysler, Citroen, Daewoo, Daihatsu, Dodge, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Lada, Lancia, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Seat, Subaru, Suzuki, Toyota, Volvo, VW	Daewoo, Fiat, Ford, Honda, Lancia, Mercedes, Nissan, Seat, Toyota, VW	Ford, Jaguar, Mazda, Seat, Skoda	Alfa Romeo, Audi, BMW, Chevrolet, Chrysler, Citroen, Daewoo, Daihatsu, Dodge, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Lada, Lancia, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Citroen, Dacia, Daihatsu, Fiat, Ford, Honda, Hyundai, Kia, Lada, Lancia, Mercedes, Mitsubishi, Nissan, Opel, Peugeot, Rover, Skoda, Subaru, Suzuki, Toyota, Volvo, VW	Alfa Romeo, Audi, BMW, Chevrolet, Citroen, Daewoo, Daihatsu, Fiat, Ford, Honda, Hyundai, Kia, Lada, Lancia, Mazda, Mercedes, Mitsubishi, Opel, Peugeot, Renault, Rover, Saab, Seat, Subaru, Suzuki, Toyota, VW	Fiat, Peugeot, Saab, Seat, Volvo, VW	Universal

STX 12 Reference

- Subwoofer for sealed and bassreflex cabinets
- Aluminium die-cast basket with diamond cut and additional voice coil ventilation
- Multi-layer compressed, air-dried paper cone
- Double-stitched cone/surround
- 3" 4-layer high-performance voice-coil with Japanese TOTOKU wire mounted on aluminium former
- 135oz high-power double magnet system
- Chrome-plated pole plate with laser engraving
- Chrome-plated push terminal



MPEExclusive 12

- Subwoofer for sealed and bass reflex cabinets
- Steel basket with anti-resonance powder coating
- 2" high-performance voice coil
- High-power magnet with Mac Audio protection cap
- Injection polypropylene cone with additional edge reinforcement
- Long excursion rubber surround
- Chrome-plated push terminal
- Decorative ring covering the fixing screws



	STX 12 Reference	MPE 12
Power handling	1000/2000 W	300/1000 W
Impedance	4 Ω	4 Ω
Frequency Response	16 - 500 Hz	21 - 500 Hz
SPL	91 dB	90 dB
DIN-Ø	300 mm	300 mm
Cutting out	280 mm	280 mm
Mounting depth	160 mm	130 mm
TSP		
FS/Qes/ Qms/Qts	22 Hz/0.25/3.56/0.23	29 Hz/1.04/ 4.37/0.84
Vas/Xmax/ RDC	116 l/26 mm/3.3 Ω	69 l/16mm/3.8 Ω
Closed cabinet	29 l	38 l
Reflex enclosure	43 l (40 Hz) 58 l (32 Hz)	55 l
Port Ø/port l.	100 mm/250 mm 100 mm/290 mm	100 mm/250 mm

STX Reference

- Bandpass subwoofer cabinet with plexiglas window and white LED illumination (BP)
- Bass reflex subwoofer cabinet with plexiglas window and white LED illumination (R)
- Chassis: STX 12 Reference Woofer
- Solid MDF baffle
- Loudspeaker fixed with metrical screws
- Air-flow optimised power bass reflex channel
- Solid aluminium protection bars
- High-quality screw terminal including LED remote function
- Anti skid carpet with **HD** logo stitch



STX 112 BP Reference

White LED illumination



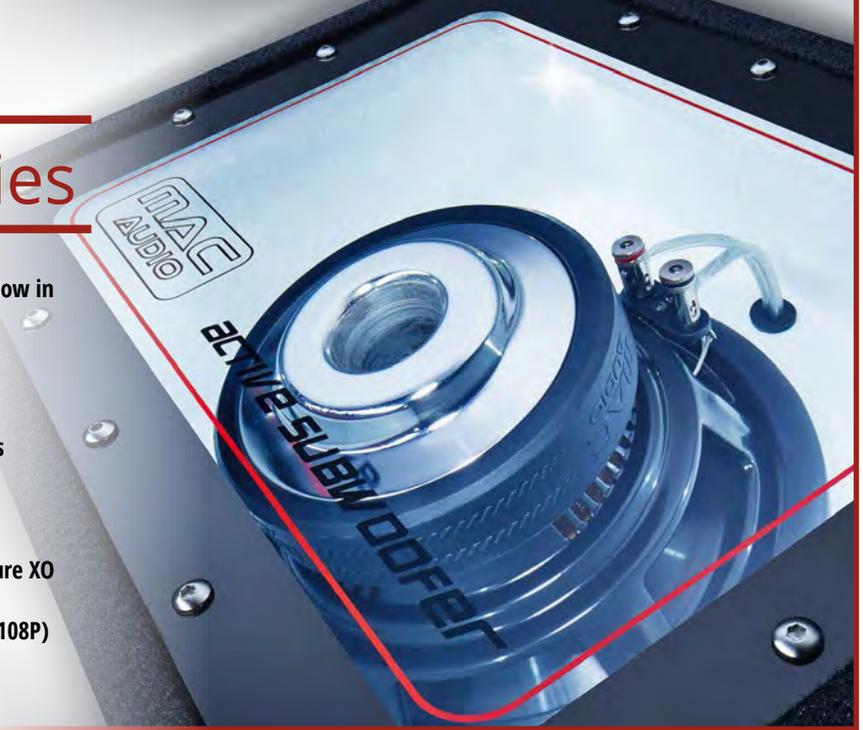
STX 112 Reference

	STX 112 BP Reference	STX 112 R Reference
System	12" bandpass subwoofer	12" bass reflex subwoofer
Power Handling	1000/2000 W	1000/2000 W
Impedance	4 Ω	4 Ω
Frequency Response	16 - 500 Hz	18 - 500 Hz
SPL	93 dB	93 dB
Weight	27 kg	23 kg
Dimensions (WxHxD)	575 x 390 x 330/500 mm	515 x 390 x 310/480 mm

PRICE TIP
CAR & HI-FI 4/2013

Ice Cube Black Series

- Active (108A) bandpass subwoofer with huge plexiglas window in cube design
- White LED illumination
- Loudspeaker fixed with metrical screws
- MDF enclosure
- Subwoofer with solid steel basket, anti-resonance high gloss lacquering, 2" 4-layer voice coil with additional ventilation, 30oz high power magnet with rubber protecting ring
- Digital amplifier (108A)
- Active amplifier module with high/low level input, full feature XO and auto turn-on function (108A)
- High quality screw terminal including LED remote function (108P)
- Anti skid carpet with neoprene inlay and **HD** logo print



Ice Cube 108 P

White LED illumination

Active Subwoofer with digital amplifier



Ice Cube 108 A





Ice Cube 108 F

- 8" mm high power woofer with low distortion PP cone and metal dustcap
- Low resonance aluminium die-cast enclosure
- High efficiency digital amplifier with 500 watts max. power output
- Stereo RCA and high level input, compatible with all car receivers
- Automatic switch-on via DC/remote/audio signal
- Variable low pass filter 50 - 150 Hz (12dB/octave)
- Variable bass boost 0 - 12dB at 45 Hz
- Phase switch 0/180 degrees
- Remote volume control
- Including mounting material



autohifi
Price Tip

Mac Audio Ice Cube 108F
Price-performance: **1,3**
excellent
CAR & HIFI Ausgabe 1/2013

Powered
Underseat-Subwoofer
with digital amp



	Ice Cube 108 P		Ice Cube 108 A	Ice Cube 108 F
System	8" bandpass sub	System	8" active bandpass sub	8" active sub
Power Handling	250/800 W	Max. power output	400 W	500 W
Impedance	4 Ω	RMS power output	150 W	150 W
Frequency Response	23 - 500 Hz	Frequency Response	28 - 150 Hz	25 - 150 Hz
SPL	89 dB	Input sensitivity	LO 100/200 mV Stereo/Mono/Hi 2.5 V	LOW 125 mV /HI 250 mV (Stereo)
Weight	9 kg	Input impedance	LOW 10 kOhms/Hi 25 kOhms	10 kOhms
Dimensions (WxHxD)	370 x 280 x 275/315 mm	Dimensions (WxHxD)	370 x 280 x 275/315 mm	353 x 239 x 78 mm

Pyramid 3000

- Subwoofer enclosure with 12" driver and 2 long excursion passive radiators
- Pyramid design for elimination of standing waves
- Solid MDF enclosure
- High power driver with inverse cone, double stitched surround, solid steel basket, 2" double voice coil, additional voice coil ventilation and 67oz high power magnet
- High-quality double screw terminal
- Solid protection bars for driver and passive radiators
- Anti skid carpet with **HD** logo stitch



Subwoofer enclosure
in pyramid design
with 2 passive radiators



Thunder 112 BP

- Bandpass subwoofer enclosure with huge plexiglas window
- White LED illumination
- Loudspeaker fixed with metrical screws
- MDF baffle
- Air flow optimized reflex port
- Subwoofer with solid steel basket, anti-resonance high gloss lacquering, 2" 4-layer voice-coil with additional ventilation, 40oz high power magnet with protection ring
- High quality screw terminal including LED remote function
- Anti skid carpet with **HD** logo stitch

White LED illumination



	Pyramid 3000	Thunder 112 BP	Bassleader 112 BP	Bassleader 112 R	Bassleader 112 T
System	12" subwoofer with 2 passive radiator	12" bandpass sub	12" bandpass sub	12" bass reflex sub	12" bass reflex tube
Power Handling	500/1500 W	400/1200 W	300/1 000 W	300/1 000 W	300/1 000 W
Impedance	2 x 4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Frequency Response	20 - 500 Hz	22 - 500 Hz	23 - 500 Hz	24 - 500 Hz	22 - 500 Hz
SPL	91 dB	91 dB	90 dB	90 dB	90 dB
Weight	17 kg	16 kg	12,5 kg	10 kg	9 kg
Dimensions (WxHxD)	500/300 x 380 x 500/300 mm	660 x 360 x 290/350 mm	515 x 365 x 260/315 mm	515 x 365 x 225/280 mm	ø/L: 335 x 465 mm

Bassleader

Enclosure:

- Bandpass subwoofer with solid plexiglas window (BP)/ Bass reflex subwoofer (R)/Bass reflex tube (T)
- Air-flow optimized bass-reflex ports
- Powder-coated protection bars (R)
- Powder-coated protection grille (T)
- Nickel-plated screw terminal
- Anti-skid carpet with **HD** stitch

Woofer:

- 12" high power driver with pole core ventilation and 2" voice coil
- Solid steel basket with additional voice coil ventilation
- PP design dustcap
- Long excursion double surround
- Multi-layer, coated structure paper cone



Bassleader 112 BP



Bassleader 112 T

Bassleader 112 R

Mac Mobil Street Sub 108 A

- 8" woofer with 22oz high-power magnet system and 1.5" double voice-coil
- High efficiency class-D amplifier module with a power output of 200 watts max
- Volume continuously variable
- Variable phase control 0 - 180°
- Low pass continuously variable 90 - 190 Hz
- High level and low level inputs
- High level input with auto turn-on function
- Bassreflex cabinet with MDF baffle
- Airflow-optimised reflex port
- Loudspeaker fixed with metrical screws
- Solid protection grille
- Anti skid carpet

Active & Compact
Subwoofer
with Digital Amp



	Mac Mobil Street Sub 108 A
System	8" active bass reflex sub
Max. power output	200 W
RMS power output	80 W
Frequency response	26 - 190 Hz
Input sensitivity	Line In 200 mV/High Level 600 mV
Input impedance	Line In 10 kOhms/High Level 500 Ohms
Dimensions (WxHxD)	355 x 275 x 292/265 mm



Reference 2.1 DSP

- High-end sound quality amplifier
- Integrated DSP audio signal processor with 2 stereo outputs for connecting additional amplifiers
- DSP features adjustable via display remote control or via PC software
- Variable high pass/low pass filters with 6/12/18/24/30/36/42/48 dB acoustic slope per octave
- 31-band parametric equalizer
- 11-band parametric equalizer for low level outputs C/D/E/F
- Runtime correction 0-15 msec with a step size of 0.1 msec
- Switchable phase shift 0/180 degrees
- Electronic level control
- Remote control features:
5 DSP settings, master/subwoofer volume control, input selection
- High level input and optical SPDIF digital input
- Toshiba power transistors
- 2 ohm stable
- Twin Power Supply
- High capacity low-impedance electrolytic capacitors
- Encapsulated potentiometers with metal shaft
- Encapsulated, gold-plated power and speaker connectors
- Protection circuit to prevent short circuits, DC-offset and overheating
- Operation mode (green LED), overload (red LED) and USB control LED
- High capacity aluminium heatsink for an optimized thermal control
- LED-illuminated Mac Audio logo badge

High Performance Power Supply



	Reference 2.1 DSP
Channel	2 Channel Car-Hifi-Amplifier
Max. power output (4 Ω)	2 x 500/1 x 1500 W
RMS power output (4 Ω)	2 x 250/1 x 700 W
Max. power output (2 Ω)	2 x 750 W
RMS power output (2 Ω)	2 x 350 W
Frequency Response	5 - 50 kHz (-3 dB)
Input impedance	20 kohms
Dimensions (W x H x D)	452 x 55 x 213 mm
Variable high pass/low pass with	6/12/18/24/30/36/42/48 dB acoustic slope per octave



DSP features adjustable via PC software



DSP features adjustable via remote control

Amplifier with high-end sound quality



TECHNOLOGY TIP
Top Class
CAR & HIFI 1/2015

+ X
PLUS X AWARD™
2015 achieved for:
High Quality
Design





ZXS

- Solid aluminium heatsink with black hairline design
- 2 ohm stable
- Encapsulated potentiometers with metal shaft
- Gold plated (4500, 1500D) and encapsulated power and speaker connectors
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Green operation and red protection indication LED
- Mosfet Power Supply
- Illuminated ZXS badge

- ZXS 4500, 4000 & 2000
- Gold-plated RCA jacks (4500)
 - Bridge/tri-mode capability

- Low level pass trough RCA jacks (2000) (channel 1 and 2 only)
- Channel mode selector switch (4/2 CH) (4500/4000)

ZXS 1500 D & 1000

- 1 ohm stable (1500 D)
- High efficiency class D subwoofer amplifier (1500 D)
- Low level pass trough RCA jacks
- Low impedance capacitors for the power supply (1500 D)
- Volume remote control



autohifi TESTURTEIL
Price-performance: **48**
very good



Digital
Subwoofer
Amp

	ZXS 1000	ZXS 1500 D	ZXS 2000	ZXS 4000	ZXS 4500
Channel	1 Channel Car-Hifi-Amplifier	1 Channel Digital-Amplifier	2 Channel Car-Hifi-Amplifier	4 Channel Car-Hifi-Amplifier	4 Channel Car-Hifi-Amplifier
Max. power output (4 Ω)	1100 W	1200 W	2 x 220/1 x 800 W	4 x 200/2 x 600 W	4 x 300/2 x 900 W
RMS power output (4 Ω)	300 W	350 W	2 x 100/1 x 350 W	4 x 100/2 x 280 W	4 x 150/2 x 400 W
Max. power output (2 Ω)	1800 W	1500 W	2 x 375 W	4 x 240 W	4 x 450 W
RMS power output (2 Ω)	500 W	600 W	2 x 175 W	4 x 120 W	4 x 200 W
Max. power output (1 Ω)	-	2400 W	-	-	-
RMS power output (1 Ω)	-	900 W	-	-	-
Frequency Response	5 - 300 Hz (-3 dB)	5 - 150 Hz (-3 dB)	5 - 50 kHz (-3 dB)	5 - 50 kHz (-3 dB)	5 - 50 kHz (-3 dB)
Input impedance	20 kohms	20 kohms	20 kohms	20 kohms	20 kohms
Dimensions (W x H x D)	340 x 50 x 248 mm	340 x 50 x 248 mm	340 x 50 x 248 mm	400 x 50 x 248 mm	540 x 50 x 248 mm
Variable full-feature filters	Low pass 40 - 300 Hz Subsonic 10 - 40 Hz Bass boost 0 ... 12 dB/45 Hz	Low pass 40 - 300 Hz Subsonic 10 - 40 Hz Bass boost 0 ... 12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0 ... 12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0 ... 12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0 ... 12 dB/45 Hz



autohifi TESTURTEIL
Price-performance: **50**
very good





MPExclusive

- 2 ohm stable
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Green operation and red protection indication LED

MPExclusive 4.0 & 4.0 XL:

- Low level RCA outputs (mono signal CH3/CH4)
- Channel mode switch 4/3/2
- Bridge/tri-mode capability

MPExclusive 2.0 & 2.0 XL:

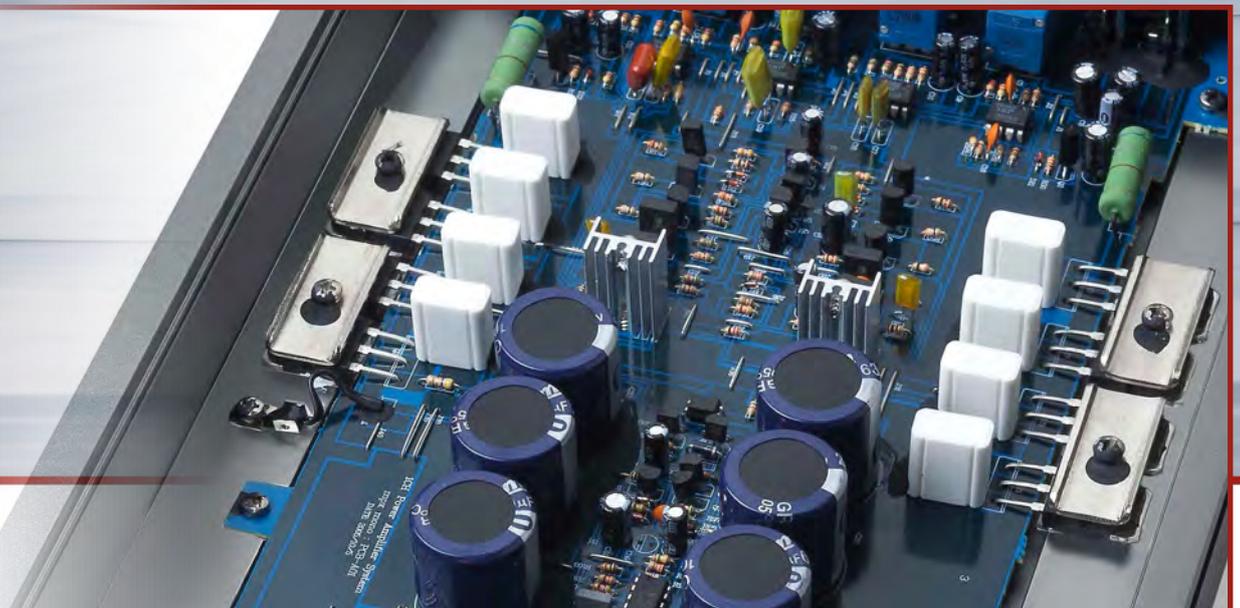
- Low level RCA outputs
- MONO/STEREO switch
- Bridge/tri-mode capability

MPExclusive 1.0 XL:

- Low level RCA outputs
- Capsulated loudspeaker and power-supply screw terminals
- Volume remote control



	MPE 1.0 XL	MPE 2.0 XL	MPE 2.0	MPE 4.0 XL	MPE 4.0
Channel	1 Channel Car-Hifi-Amplifier	2 Channel Car-Hifi-Amplifier	2 Channel Car-Hifi-Amplifier	4 Channel Car-Hifi-Amplifier	4 Channel Car-Hifi-Amplifier
Max. power output (4 Ω)	900 W	2 x 225/1 x 600 W	2 x 180/1 x 500 W	4 x 225/2 x 600 W	4 x 180/2 x 500 W
RMS power output (4 Ω)	275 W	2 x 80/1 x 240 W	2 x 60/1 x 160 W	4 x 80/2 x 240 W	4 x 60/2 x 160 W
Max. power output (2 Ω)	1500 W	2 x 300 W	2 x 250 W	4 x 300 W	4 x 250 W
RMS power output (2 Ω)	400 W	2 x 120 W	2 x 80 W	4 x 120 W	4 x 80 W
Frequency Response	5 - 300 Hz (-3 dB)	5 - 50 kHz (-3 dB)	5 - 50 kHz (-3 dB)	5 - 50 kHz (-3 dB)	5 - 50 kHz (-3 dB)
Input impedance	20 kohm	20 kohm	20 kohm	20 kohm	20 kohm
Dimensions (W x H x D)	400 x 55 x 226 mm	239 x 55 x 226 mm	239 x 55 x 226 mm	319 x 55 x 226 mm	319 x 55 x 226 mm
Variable full-feature filters	Low pass 40 - 300 Hz Subsonic 10 - 40 Hz Bass boost 0...12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0...12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0...12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0...12 dB/45 Hz	Low pass 50 - 300 Hz High pass 40 - 300 Hz Bass boost 0...12 dB/45 Hz



Accessories



Connect 25 Amplifier Installation Kit 1 600 Watts/25 mm²/80 Ampère	Connect 16 Amplifier Installation Kit 1 200 Watts/16 mm²/60 Ampère	Connect 10 Amplifier Installation Kit 800 Watts/10 mm²/50 Ampère	RCA 5 RCA cable 5 m	Cap 1.2 F 1.2 Farad Weight: 1.45 kg
<ul style="list-style-type: none"> • Power cable red, 5 m/8AWG/25 mm² • Ground cable brown, 1 m/8AWG/25 mm² • Remote cable blue, 5 m/18AWG/1 mm², • Speaker cable transparent, 8 m/16AWG/1.5 mm² • RCA cable, 5 m, double shielded, molded jacks • Fuse holder with 80 A fuse • Installation accessories 	<ul style="list-style-type: none"> • Power cable red, 5 m/8AWG/16 mm² • Ground cable brown, 1 m/8AWG/16 mm² • Remote cable blue, 5 m/18AWG/1 mm², • Speaker cable transparent, 8 m/16AWG/1.5 mm² • RCA cable, 5 m, double shielded, molded jacks • Fuse holder with 60 A fuse • Installation accessories 	<ul style="list-style-type: none"> • Power cable red, 5 m/8AWG/10 mm² • Ground cable brown, 1 m/8AWG/10 mm² • Remote cable blue, 5 m/18AWG/1 mm², • Speaker cable transparent, 8 m/16AWG/1.5 mm² • RCA cable, 5 m, double shielded, molded jacks • Fuse holder with 50 A fuse • Installation accessories 	<ul style="list-style-type: none"> • RCA cable, 5 m, double shielded, twisted design, molded jacks 	<ul style="list-style-type: none"> • 3.5-character digital voltage display with red LEDs • Two blue LEDs to display the operating voltage • Warning (peep sound) in the event of incorrectly connected poles and short circuit • Aluminium cup made from brushed aluminium • Sturdy nickel-plated hexagonal-socket screw terminals in a chrome look • Protective cover made from transparent plastic



Packages

Mac Xtreme 4000

MPE 16.2

- Solid steel basket with additional voice coil ventilation
- Injection polypropylene cone with additional edge reinforcement
- Long excursion rubber surround
- Aluminium coated tweeter cone
- Aluminium coated midrange cone
- Magnet protection cover in Mac Audio design
- Suspension and magnetic field optimised with
- KLIPPEL® measurement system
- Design protection cover with aluminium diamondcut logo

2-way coaxial speaker
 Power handling: 70/280 W
 SPL: 90 dB
 DIN Ø: 165 mm

MPE 112 R

Enclosure

- Bass reflex subwoofer
- Air-flow optimized bass-reflex ports
- Powder coated protection bars
- Nickel-plated screw terminal
- Anti-skid carpet with 2 color-design

Woofer

- 12" high power driver with ventilated pole core and 2" voice coil
- Low-resonance steel basket with additional voice coil ventilation
- PP design dustcap
- Multi-layer, coated paper cone

12" bass reflex subwoofer
 Power handling: 300/1000 W
 SPL: 90 dB
 Dimensions (WxHxD):
 385x365x295/355 mm

MPX 4000:

- 2 ohm stable
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Green operation and red protection indication LED
- Variable low pass 40 – 300 Hz (12 dB/Octave)
- Variable subsonic filter 10 – 40 Hz (12 dB/Octave)
- Variable bass boost 0...12 dB at 45 Hz
- Volume remote control
- Capsulated loudspeaker and power-supply screw terminals

4-channel amplifier
 Max. Power output (4 Ω):
 4 x 180/2 x 500 W
 RMS power output (4 Ω):
 4 x 60/2 x 160 W
 Max. Power output (2 Ω): 4 x 250 W
 RMS power output (2 Ω): 4 x 80 W
 Dimensions (WxHxD):
 319 x 59 x 226 mm



Mac Xtreme 2000

Mac Xtreme Sub 110R

Enclosure

- Bass reflex subwoofer
- Air-flow optimized bass-reflex port
- Nickel-plated screw terminal
- Anti-skid carpet

Woofer

- 10" high power driver with ventilated pole core and 2" voice coil
- Low-resonance steel basket with additional voice coil ventilation
- PP design dustcap
- Multi-layer, coated paper cone

10" bass reflex subwoofer
 Power handling: 250/800 W
 SPL: 89 dB
 Dimensions (WxHxD): 370 x 300 x 230/280 mm

Mac Xtreme Amp 2000

- 2 ohm stable
- Variable low pass 50 – 250 Hz (12 dB per octave)
- Variable high pass 50 – 250 Hz (12 dB per octave)
- Switchable bass boost 6/12 dB at 45 Hz
- High level inputs
- Low level RCA outputs
- MONO / STEREO switch
- Bridge/tri-mode capability
- Protection circuit that safeguards against short circuits, DC-offset and overheating
- Green operation and red protection indication LED

2-channel amplifier

Max. Power output (4 Ω): 2 x 180/1 x 500 W
 RMS power output (4 Ω): 2 x 60/1 x 160 W
 Max. Power output (2 Ω): 2 x 250 W
 RMS power output (2 Ω): 2 x 80 W
 Dimensions (WxHxD): 219 x 59 x 226 mm



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