

CAR AUDIO | 2018

 **FOCAL**[®]
LISTEN BEYOND





We, Focal,
strive to create sound
equipment that honours the artist's
musical creation and empowers you to
feel a new dimension of the music. We want
every nuance to be revealed with precision and
purity. To do this, we push the limits of the current
boundaries in sound technology, and go beyond
the traditional approach thinking differently.
With Focal, let the sound thrill your senses
until you go beyond the usual perception
of music and discover new fields
of emotion.

LISTEN BEYOND

**“ THE AMPLIFIED
DRIVING
EXPERIENCE ”**



For nearly four decades, Focal has been applying its unique sound signature to speaker drivers and high-end loudspeakers. We are renowned worldwide for our innovations which have given rise to exclusive technologies, and some of our loudspeakers have gone on to become world-renowned references.

Our philosophy is to promote our expertise 'Made in France': 100% of our products are designed and developed by our engineers, and a large part of our collections are made in France in our own workshops. All Focal products benefit from innovations which result from the on-going research in the field of acoustics. This technological heritage, protected by numerous patents, ensures a sound which is clear, powerful and true to nature; for providing the best audio systems in each category.

The love for music combined with the passion for cars spawned Focal's Car Audio collections in the 1990s. These car audio systems and kits are designed to enable car enthusiasts to enhance their driving experience with audiophile sound. From the most prestigious customised installations to easy-to-install kits, every solution is optimised for your vehicle. Our technology is packed with the best innovations and materials to enhance your audio environment, and to make your journey a moment of intense pleasure.

Our collection of audio solutions is adapted to all styles and all uses:

- **Elite**: on-board audio perfection: get the highest musical quality for your car thanks to these customised installations capable of exceptional performance.
- **Performance**: treat yourself to powerful and demonstrative sound through a sound system which reflects who you are.
- **Integration**: discreet and easy to install, a simple way to improve your vehicle's acoustics without altering the factory system.

Innovation and performance, the highest levels of expertise and pleasure are the brand's values.

They define Focal's signature, whose unique goal is to take you beyond sound.

ELITE

'Haute couture' sound

Is your car a gem bespoke to you? Is ultimate sound quality never far from your thoughts?

If so, then Elite is for you: The Focal name is synonymous with unique, 'hand-made' equipment to help you achieve the absolute performance from your music. Based on rare, precious metals, this range uses the very latest technologies, strong in the heritage of the Grande Utopia EM, currently considered as one of the best loudspeakers in the world. Made in France, these dream products, available in **Utopia Be and K2 Power lines**, are the natural choice for bespoke installations implemented exclusively for you by our expert installers.



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> DS-E Tense with Scala V2

01

UTOPIA BE



No limit for Passion!

A unique sensation in the world, experience the Grande Utopia EM in your car. Ultima is a full active car audio kit designed and inspired by all the best drivers used in our high-end loudspeakers. A real midbass developed from the 'Grande Utopia EM' midrange associated with its tweeter with IAL2 technology to drive a 2-way front component kit.

To be sure to have the best flat and neutral frequency response we associated two 8" subwoofers designed for our professional monitoring system SM9.

Grande Utopia Be and SM9 successfully combine the best of Focal's technologies from musical creation in the greatest monitoring studios to final restitution of music at home.

With a high air decompression from the Power Flower woofer, the distortion is reduced to the minimum and offers high dynamic.

Incredible materials and all the best Focal knowledge used on this kit are not the only highlights... more than a 'product' it's a real complete full active Hi-fi system... handmade in France passionately for car and music lovers.

From the low to the very high frequencies, the listening pleasure is given by details, neutrality and high dynamic.

Detailed soundstage, instrument separation, relief, precision like you've never heard before.



Full active Ultima kit in its wood Black Satin case. Included authenticity certificate, user manual, Focal tool CD for settings.

Composition of the kit:
2xTweeters, 2xMidbass, 2xSubwoofers



TW Ultima

Diameter: 2¹⁵/₁₆" (75mm)
Motor: Neodymium IAL2 motor
Max. power: 200W (with filtering)
Nom. power: 50W RMS (with filtering)
Sensitivity (2.83V/1m): 93dB
Impedance: 6Ω
Frequency Response: 500Hz to 40kHz

Suggested load volume:
0.01 cu ft (0.3) in sealed enclosure



6 W Ultima

Diameter: 6¹/₂" (165mm)
'W' composite sandwich cone
Voice-coil diameter: 1⁹/₁₆" (40mm)
Motor: Power Flower multi ferrite
Max. power: 240W
Nom. power: 120W RMS
Sensitivity (2.83V/1m): 90.5dB
Impedance: 4Ω
Frequency Response: 60Hz to 4.5kHz
Accessory: Aluminum engraved ring

Suggested load volume:
1 cu ft (30l) in sealed enclosure



8 W Ultima

Diameter: 8" (200mm)
'W' composite sandwich cone
Voice-coil: 2" (50mm)
Motor: Dual ferrite
Max. power: 600W
Nom. power: 300W RMS
Sensitivity (2.83V/1m): 90.2dB
Impedance: 6Ω
Frequency Response: 40Hz to 120Hz

Suggested load volume for 1 subwoofer:
0.79 cu ft (22.5l) in ported enclosure
Port size suggested:
6¹/₁₆" x Ø2³/₁₆" (17cm x Ø6cm)



Kit n°6

2-way component kit
Diameter: 6¹/₂" (165mm)
'W' composite sandwich cone
Voice-coil: 1⁹/₁₆" (40mm)
Motor: Neodymium
Pure Beryllium inverted dome TBe tweeter
Crossblock: 4480 filtering settings available, 2-way
 12/12dB/oct
Max. power: 200W
Nom. power: 100W RMS
Sensitivity (2.83V/1m): 91.5dB
Frequency response: 66Hz-40kHz
Supplied with grille

Available in N°6 Active version
 (without Crossblock)



Kit n°7

3-way component kit
Diameter: 6¹/₂" (165mm)
'W' composite sandwich cone
Voice-coil: 1⁹/₁₆" (40mm)
Motor: Neodymium
Midrange: 5" (80mm)
Voice-coil: 1" (25mm)
Motor: Neodymium
Pure Beryllium inverted dome TBe tweeter
Crossblock: 4480 filtering settings
 available, 3-way 12/12-12/12dB/oct
Max. power: 200W
Nom. power: 100W RMS
Sensitivity (2.83V/1m): 89dB
Frequency response: 55Hz-40kHz
Supplied with grille

Available in N°7 Active version
 (without Crossblock)



Mid box

Mid box designed to install the 3W2
 and TBe in the windshield upright
 Supplied without woofer





165 W-RC Passive version

2-way component kit
 Diameter: 6¹/₂" (165mm)
 'W' composite sandwich cone
 Pure Beryllium inverted dome tweeter
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 93dB
 Impedance: 2Ω
 Frequency response: 60Hz-30kHz
 Supplied with grille



165 W-RC Active version

2-way component kit
 Diameter: 6¹/₂" (165mm)
 'W' composite sandwich cone
 Pure Beryllium inverted dome tweeter
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 93dB
 Impedance: 2Ω
 Frequency response: 60Hz-30kHz
 Supplied with grille



13 WS

Subwoofer
 Diameter: 5" (130mm) compact
 Mounting depth: 2¹⁹/₃₂" (66mm)
 'W' composite sandwich cone,
 mounting at the front of the vehicle
 Use in sealed box from 3 to 7l (0.106-0.247ft³)
 Motor: Neodymium
 Max. power: 150W
 Nom. power: 75W RMS
 Sensitivity (2.83V/1m): 88dB
 Frequency response: 36Hz*-1500Hz
 Voice-coil: 1¹/₄" (32mm)
 Impedance: 4Ω
 Supplied with grille

*Depends on load



21 WX

Subwoofer
 Diameter: 8" (210mm)
 Mounting depth: 4¹/₁₆" (106mm)
 'W' composite sandwich cone
 Use in sealed or vented box from 15 to 30l (0.530-1.059ft³)
 Motor: Multiferrite
 Max. power: 500W
 Nom. power: 250W RMS
 Sensitivity (2.83V/1m): 86.5dB
 Frequency response: 29Hz*-500Hz
 Voice-coil: 2" (50mm)
 Impedance: 4Ω
 Supplied with grille

*Depends on load



33 WX

Subwoofer
 Diameter: 13" (330mm)
 Mounting depth: 5²⁹/₃₂" (150mm)
 'W' composite sandwich cone
 Use in sealed or vented box from 35 to 45l (1.236-1.589ft³)
 Motor: Multiferrite
 Max. power: 800W
 Nom. power: 400W RMS
 Sensitivity (2.83V/1m): 92dB
 Frequency response: 27Hz*-500Hz
 Voice-coil: 3¹/₁₆" (77mm)
 Impedance: 4Ω

*Depends on load



K2 POWER TECHNOLOGY



> K2 Power sandwich cone

More than products... a lifestyle!

Besides its distinct yellow colour, the K2 Power line has become a lifestyle object in its own right worldwide. Once more, our engineers have pushed back the limits of performance to continue making the reputation of this extraordinary line synonymous with power and precision!

The K2 Power's composite sandwich cone, unbeatable until now, combines three key features: rigidity, lightness and damping. This unique expertise 'made in Focal' combines a new patented TMD® (Tuned Mass Damper) rubber surround which controls unwanted resonances to provide a clean and neutral midrange with very low harmonic distortion.

The ventilated voice-coil gap keeps the temperature of the voice-coil low and stable for increased power handling and reliability. The subwoofers have been designed to work in very compact volumes while having a very high SPL and an amazing energy!

Finally, the major innovation of this new line Made in France is the 'M' profile aramid-fibre inverted dome tweeter. This new and totally exclusive 'M' profile inverted dome tweeter has been specifically designed to increase precision in the very high frequencies. The push-pull motor inspired by the IAL technology dampens acoustic resonances on the back of the membrane and extends the low end of the frequency response, in a very compact housing.



> TMD®
(Tuned Mass Damper)



> Ventilated voice coil
cooling system



> 'M' profile inverted
dome tweeter



2



EC 165 K

2-way coaxial kit
Diameter: 6¹/₂" (165mm)
K2 composite sandwich cone
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0⁹/₁₆" (15mm)
Motor: Ferrite
Tweeter: TKM ('M' profile aramid-fibre inverted dome)
Surround: Tuned Mass Damper (TMD)
Max. power: 160W
Nom. power: 80W RMS
Sensitivity (2.83V/1m): 93dB
Frequency response: 60Hz-22kHz
Impedance: 4Ω
 Supplied with grille



ES 100 K

2-way component kit
Diameter: 4" (100mm)
K2 composite sandwich cone
Voice-coil diameter: 0⁵/₁₆" (20mm)
Voice-coil height: 0¹/₂" (8.5mm)
Motor: Neodymium
Tweeter: TKM ('M' profile aramid-fibre inverted dome)
Surround: Tuned Mass Damper (TMD)
Separated crossover: 12/12dB (3.5kHz)
Tweeter adjustable level: +3; 0; -3dB
Max. power: 120W
Nom. power: 60W RMS
Sensitivity (2.83V/1m): 90dB
Frequency response: 110Hz-22kHz
Impedance: 4Ω
 Supplied with grille



ES 130 K

2-way component kit
Diameter: 5" (130mm)
K2 composite sandwich cone
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0¹/₂" (12mm)
Motor: Ferrite
Tweeter: TKM ('M' profile aramid-fibre inverted dome)
Surround: Tuned Mass Damper (TMD)
Separated crossover: 6-12/12dB (3.5kHz)
Tweeter adjustable level: +3; 0; -3dB
Max. power: 160W
Nom. power: 80W RMS
Sensitivity (2.83V/1m): 90dB
Frequency response: 65Hz-22kHz
Impedance: 4Ω
 Supplied with grille



ES 165 K

2-way component kit
Diameter: 6¹/₂" (165mm)
K2 composite sandwich cone
Voice-coil diameter: 1¹/₄" (32mm)
Voice-coil height: 0⁹/₁₆" (15mm)
Motor: Ferrite
Tweeter: TKM ('M' profile aramid-fibre inverted dome)
Surround: Tuned Mass Damper (TMD)
Separated crossover: 6-12/12dB (3kHz)
Tweeter adjustable level: +3; 0; -3dB
Max. power: 200W
Nom. power: 100W RMS
Sensitivity (2.83V/1m): 90.8dB
Frequency response: 60Hz-22kHz
Impedance: 4Ω
 Supplied with grille



ES 165 K2

2-way component kit
Diameter: 6¹/₂" (165mm)
K2 composite sandwich cone
Voice-coil diameter: 1¹/₄" (32mm)
Voice-coil height: 0⁵/₈" (15.5mm)
Motor: Ferrite
Tweeter: TKM ('M' profile aramid-fibre inverted dome)
Surround: Tuned Mass Damper (TMD)
Separated crossover: 6-12/12dB (3.5kHz)
Tweeter adjustable level: +3; 0; -3dB
Max. power: 200W
Nom. power: 100W RMS
Sensitivity (2.83V/1m): 92.8dB
Frequency response: 60Hz-22kHz
Impedance: 2Ω
 Supplied with grille





ES 165 KX2

2-way component kit

Diameter: 6¹/₂" (165mm)

K2 composite sandwich cone

Voice-coil diameter: 1⁹/₁₆" (40mm)

Voice-coil height: 0²/₃" (16.5mm)

Motor: Ferrite

Tweeter: TKMX ('M' profile aramid-fibre inverted dome)

Surround: Tuned Mass Damper (TMD)

Separated crossover: 6-12/12-18dB (3kHz)

Tweeter adjustable level: +3; 0; -3dB

Max. power: 240W

Nom. power: 120W RMS

Sensitivity (2.83V/1m): 92.5dB

Frequency response: 55Hz-22kHz

Impedance: 2Ω

Supplied with grille



ES 165 KX3

3-way component kit

Diameter: 6¹/₂" (165mm)

K2 composite sandwich cone

Voice-coil diameter: 1⁹/₁₆" (40mm)

Voice-coil height: 0²/₃" (16.5mm)

Motor: Ferrite

Tweeter: TKMX ('M' profile aramid-fibre inverted dome)

Surround: Tuned Mass Damper (TMD)

Separated crossover: 6-12/12/12dB (3/4/500Hz/3.5kHz)

Tweeter adjustable level: +3; 0; -3dB

Max. power: 240W

Nom. power: 120W RMS

Sensitivity (2.83V/1m): 93dB

Frequency response: 45Hz-22kHz

Impedance: 4Ω

Supplied with grille



E 25 KX

Subwoofer

Diameter: 10" (250mm)

K2 composite sandwich cone

Mounting depth: 6⁹/₁₆" (172mm)

Voice-coil diameter: 2⁹/₁₆" (65mm)

Voice-coil height: 2³/₁₆" (55mm)

Motor: Dual ferrite

Max. power: 1200W

Nom. power: 600W RMS

Sensitivity (2.83V/1m): 84.5dB

Frequency response: 25Hz-500Hz

Impedance: dual 4Ω



E 30 KX

Subwoofer

Diameter: 12" (300mm)

K2 composite sandwich cone

Mounting depth: 6⁹/₁₆" (172mm)

Voice-coil diameter: 2⁹/₁₆" (65mm)

Voice-coil height: 2³/₁₆" (55mm)

Motor: Dual ferrite

Max. power: 1600W

Nom. power: 800W RMS

Sensitivity (2.83V/1m): 86.5dB

Frequency response: 25Hz-500Hz

Impedance: dual 4Ω



ELECTRONICS

Are you looking to enjoy the sensations of astonishingly precise and powerful car audio which is perfectly controlled and stable in your vehicle?

Focal's range of electronic products will enhance your car audio system so you can get the most out of your music while at the wheel. They will enable you to create a sound processing system with all the electronics you need to satisfy your desires. Create exactly the right set-up you're looking for, in confined or adequate spaces: the system can be optimised using a **digital signal processor** and one or more **amplifiers**. Thanks to our ranges of FPX and FDS amplifiers, and to our FSP-8 sound processor, you'll immediately find the perfect balance of power and audio quality.

These electronic products will give you the best results with our **Elite** and **Performance** ranges.

Huge power, compactness, efficiency

The FPX range combines the best of modern amplification technologies to provide high performances and musical precision: the premium understanding by FOCAL!



FPX 5.1200

Class D amplifier - 5 channels

CEA Power (4Ω): 4x75W RMS + 1x420W RMS

Power max (2Ω): 4x120W RMS + 1x720W RMS

Configurable Crossovers High-Pass/Low-Pass: 50Hz - 500Hz

Copy Mode (6CH/4CH/2CH)

Full range Mode

Bass Boost

Subsonic filter

Ajustable Phase

Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection

Dimensions (LxHxW): 11³/₁₆"x6⁵/₁₆"x2¹/₄"(300x175x57mm)

Weight: 9.038 lbs (4.1Kg)

Remote control included



FPX 4.400 SQ

"The Sound Quality amplifier of the range"

Class AB amplifier - 4/3/2 channels
CEA power (4Ω): 4x70W RMS
Max. power (2Ω): 4x100W RMS
Max. power (4Ω bridged): 2x200W RMS
Configurable Crossovers High-Pass/Low-Pass:
 50Hz-5000Hz
Copy Mode (4CH/2CH)
Full range Mode
Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection
Dimensions: 12^{23/64}"x5^{57/64}"x2^{1/4}" (314x175x57mm)
Weight: 8.16lbs (3.7kg)

FPX 2.750

Class D amplifier - 2 channels/mono
CEA power (4Ω): 2x220W RMS
Max. power (2Ω): 2x385W RMS
Max. power (4Ω bridged): 1x770W RMS
Configurable Crossovers High-Pass/Low-Pass:
 50Hz-500Hz
Full range Mode
Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection
Dimensions: 9^{21/64}"x5^{13/64}"x2^{3/32}" (237x132x53mm)
Weight: 4.40lbs (2kg)

FPX 4.800

Class D amplifier - 4/3/2 channels
CEA power (4Ω): 4x120W RMS
Max. power (2Ω): 4x185W RMS
Max. power (4Ω bridged): 2x370W RMS
Configurable Crossovers High-Pass/Low-Pass:
 50Hz-500Hz
Copy Mode (4CH/2CH)
Full range Mode
Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection
Dimensions: 9^{21/64}"x5^{13/64}"x2^{3/32}" (237x132x53mm)
Weight: 4.40lbs (2kg)

FPX 1.1000

Class D amplifier - Mono
CEA power (4Ω): 1x420W RMS
Max. power (2Ω): 1x700W RMS
Max. power (1Ω): 1x1000W RMS
Configurable Low-Pass Crossover: 50Hz-250Hz
 Bass Boost - Progressive Phase - Subsonic
Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection
Dimensions: 11^{11/16}"x5^{13/64}"x2^{3/32}" (297x132x53mm)
Weight: 5.62lbs (2.55kg)

FDS 4.350

Class D amplifier - 4/3/2 channels
RCA low-level inputs
CEA power (4Ω): 4x58W RMS
Max. power (2Ω): 4x100W RMS
Max. power (4Ω bridged): 2x200W RMS
Configurable high-pass/low-pass crossover:
 40Hz-400Hz
Full range mode
Protections: Short-circuit/low impedance/reversal of polarity/DC/power drop/overheating protection
Dimensions (DxWxH)
 7^{13/16}"x11^{11/16}"x4^{1/4}" (199x43x108mm)
Weight: 1.8lbs (850g)

FDS 1.350

Class D amplifier with dual output - Mono
RCA low-level inputs
CEA power (4Ω): 1x210W RMS
Max. power (2Ω): 1x350W RMS
Low-pass crossover: 40Hz-400Hz
Progressive phase adjustment (0-180°)
Bass boost (0/6dB/12dB)
Protections: Short-circuit/low impedance/reversal of polarity/DC/power drop/overheating protection
Dimensions (DxWxH):
 7^{13/16}"x11^{11/16}"x4^{1/4}" (199x43x108mm)
Weight: 1.8lbs (850g)

FDS 2.350

Stereo Class D bridgeable amplifier
RCA low-level inputs
CEA power (4Ω): 2x105W RMS
Max. power (2Ω): 2x170W RMS
Max. power (4Ω bridged): 1x360W RMS
Configurable high-pass/low-pass crossover:
 40Hz-400Hz
Full range mode
Bass boost (0-12dB)
Protections: Short-circuit/low impedance/reversal of polarity/DC/power drop/overheating protection
Dimensions (DxWxH):
 7^{13/16}"x11^{11/16}"x4^{1/4}" (199x43x108mm)
Weight: 1.8lbs (850g)

FSP-8

8-channel sound processor
 Selectable high/low-level inputs for compatibility with factory or after-market head units
 High-resolution digital input (24 bits/192kHz)
 Auxiliary stereo input
 Remote control with LED screen (sold separately)
 Dimensions (LxHxW): 5^{5/16}"x8^{9/16}"x1^{7/8}" (135x218x48mm)
 Audio specifications
 Max output (with 10 kΩ): 3.4V
 Frequency response (digital crossover off/-3 dB): 5Hz- 21kHz
 Signal/noise ratio: -90dBA (analog input)/-99dBA (optical)
 Distortion - 10 kΩ - @ 1kHz (with 22kHz low-pass filter): 0.02%



Manager Focal FSP-8 software

PC compatibility: Windows XP/Vista/Seven/8/10

Simplified set-up and dynamic help

Equaliser: 10 bands, fully customisable for every single channel

High-pass/low-pass filter/bandpass control: 16Hz - 20kHz

Delay adjustment range: 0-22ms per channel

Delay adjustment incrementation: 0.1ms

Phase inverter

FSP-8 remote control

Enables you to control the main functions of the FSP-8:

Adjust overall gain, subwoofer volume, and input selection for the FSP-8

Reminds you of the stored pre-sets

Notched knob

LED backlit screen

Dimensions (LxHxW): 1^{1/2}"x4^{5/16}"x1^{1/4}" (38x110x31.3mm)



PERFORMANCE

Create your sound

Are you passionate about your beautiful powerful car? Do you want to create a sound system that reflects who you are?

The Performance range, innovative and dynamic, delivers sound to make your spine tingle. Ultra-technical and assertively designed, Performance was conceived to bring extreme sensations. If the traditional **Access** line marks the entry-point to this technology universe, you can push the limits of your creativity to their very peaks with the **Expert** range. The young generation will also find with the **Auditor** line the Focal sound expertise at a very affordable budget. Power and fidelity work hand in hand: 'live' sound in all its dimensions for the most demanding music lovers.



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FLAX SANDWICH TECHNOLOGY

Patent n° WO2014/106713A1



Perfect balance for high dynamic

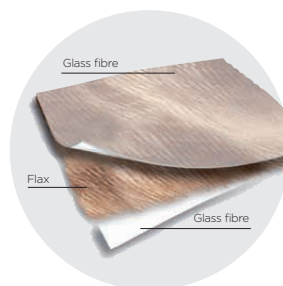
Over the last years, there have been many innovations regarding the materials used. The return to natural materials and their combination with modern composites has resulted in the creation of new kinds of modern hybrids.

The 'Sandwich' technology which we master perfectly with the K2 and 'W' cones is the best way to achieve a perfect balance between rigidity/weight/damping.

The key to success for a speaker cone made by Focal lies in the satisfaction of these conflicting criteria.

When it came down to the delicate choice regarding the design of the core of the sandwich structure, our engineers were soon impressed by the characteristics particular to Flax. After five years of research, the Flax sandwich cone was born. The use of an ecological textile such as flax, combined with our composite technology has led to an innovative solution for manufacturing sandwich structures: very high-quality flax fibres between two sheets of glass fibres. French flax is considered the best in the world, and another important detail is that the manufacturing process can be mechanised and automated.

The high-end products of our Expert line are the result of our constant efforts to differentiate ourselves and our goal to provide ultimate acoustic reproduction, featuring six Performance kits: the 'F' series.



> FLAX sandwich cone



> Aluminum/Magnesium inverted dome tweeter



> Aluminum basket





PS 130 F

2-way component kit

Diameter: 5" (130mm)

Flax sandwich cone

Mounting depth: 2^{7/16}" (61.5mm)

Voice-coil diameter: 1" (25mm)

Voice-coil height: 0^{3/8}" (10mm)

Magnet: 3^{1/3}" (85mm)

Processed Aluminum/Magnesium inverted dome tweeter

Separated crossover: 12-12dB/Oct

Ajustable tweeter level: 0; -3dB/Oct

Max. power: 120W

Nom. power: 60W RMS

Sensitivity (2.83V/1m): 90.4dB

Frequency response: 75Hz-28kHz

Supplied with grille



PS 165 F

2-way component kit

Diameter: 6^{1/2}" (165mm)

Flax sandwich cone

Mounting depth: 2^{7/8}" (72.5mm)

Voice-coil diameter: 1" (25mm)

Voice-coil height: 0^{9/16}" (15mm)

Magnet: 3^{1/3}" (85mm)

Processed Aluminum/Magnesium inverted dome tweeter

Separated crossover: 12-12dB/Oct

Ajustable tweeter level: 0; -3dB/Oct

Max. power: 140W

Nom. power: 70W RMS

Sensitivity (2.83V/1m): 91.6dB

Frequency response: 60Hz-28kHz

Supplied with grille



PS 165 FX

2-way component kit

Diameter: 6^{1/2}" (165mm)

Flax sandwich cone

Mounting depth: 3^{1/16}" (77mm)

Voice-coil diameter: 1^{1/4}" (32mm)

Voice-coil height: 0^{9/16}" (15mm)

Magnet: 3^{3/8}" (90mm)

Processed Aluminum/Magnesium inverted dome tweeter

Separated crossover: 12-18dB/Oct

Ajustable tweeters level: 0; -3dB/Oct

Max. power: 160W

Nom. power: 80W RMS

Sensitivity (2.83V/1m): 91.3dB

Frequency response: 55Hz-28kHz

Supplied with grille





PS 165 F3

3-way component kit
 Woofer diameter: 6¹/₂" (165mm)
 Flax sandwich cone
 Midrange diameter: 3" (80mm)
 Woofer mounting depth: 3¹/₁₆" (77mm)
 Midrange mounting depth: 1⁵/₁₆" (33.5mm)
 Magnet: 3⁹/₁₆" (90mm)
 Processed Aluminum/Magnesium inverted dome tweeter
 Separated crossover: 12-18dB/Oct
 Adjustable tweeters level: 0; -3dB/Oct
 Adjustable midranges level: HI-MID/Flat
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 90.7dB
 Frequency response: 55Hz-28kHz
 Supplied with grille



PC 130 F

2-way coaxial kit
 Diameter: 5" (130mm)
 Flax sandwich cone
 Mounting depth: 2¹/₃₁" (59.2mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0³/₈" (10mm)
 Motor: Ferrite
 Processed Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 90.5dB
 Frequency response: 75Hz-28kHz
 Impedance: 4Ω
 Supplied with grille



PC 165 F

2-way coaxial kit
 Diameter: 6¹/₂" (165mm)
 Flax sandwich cone
 Mounting depth: 2⁷/₈" (72.50mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0¹/₂" (13mm)
 Motor: Ferrite
 Processed Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 140W
 Nom. power: 70W RMS
 Sensitivity (2.83V/1m): 91.9dB
 Frequency response: 60Hz-28kHz
 Impedance: 4Ω
 Supplied with grille





Easy integration, compactness and performances

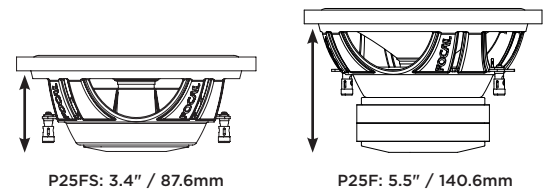
We developed this Flax shallow subwoofer to answer the new trend of the market: discrete integration in small space as trunk or underseat location in pick up without compromise on the performances.



P 25 FS

Shallow subwoofer
 Diameter : 10" (250mm)
 Flax sandwich cone
 Mounting depth: 3²⁹/₆₄" (87.6mm)
 Voice-coil diameter: 1¹/₂" (38mm)
 Sealed enclosure: 0.42 to 0.64 cu ft (12 to 18l)
 Motor : Dual ferrite
 Max. power: 560W
 Nom. power: 280 WRMS
 Sensitivity (2.83V/1m): 87dB
 Frequency response: 35Hz-400Hz

A SHALLOW SOLUTION!



P 20 F

Subwoofer
 Diameter: 8" (200mm)
 Flax sandwich cone
 Mounting depth: 4³⁹/₆₄" (117mm)
 Single voice-coil: 1¹/₂" (Ø38mm), 4Ω
 Sealed enclosure: 0.35 to 0.53 cu ft (10 to 15l)
 Ported enclosure: 0.35 to 0.70 cu ft (10 to 20l)
 Double ferrite magnet: 4³/₄" (120mm)
 Max. power: 500W
 Nom. power: 250W RMS
 Sensitivity (2.83V/1m): 82.5dB
 Frequency response: 39Hz-500Hz



P 25 F

Subwoofer
 Diameter: 10" (250mm)
 Flax sandwich cone
 Mounting depth: 5¹⁷/₃₂" (140.6mm)
 Single voice-coil: 2" (Ø50mm), 4Ω
 Sealed enclosure: 0.35 to 0.88 cu ft (10 to 25l)
 Ported enclosure: 0.88 to 1.20 cu ft (25 to 35l)
 Double ferrite magnet: 5¹/₁₆" (145mm)
 Max. power: 600W
 Nom. power: 300W RMS
 Sensitivity (2.83V/1m): 85dB
 Frequency response: 33Hz-500Hz



P 30 F

Subwoofer
 Diameter: 12" (300mm)
 Flax sandwich cone
 Mounting depth: 6⁵/₁₆" (160.5mm)
 Single voice-coil: 2" (Ø50mm), 4Ω
 Sealed enclosure: 1.06 to 1.40 cu ft (30 to 40l)
 Ported enclosure: 1.4 to 2.10 cu ft (40 to 60l)
 Double ferrite magnet: 5¹/₁₆" (145mm)
 Max. power: 800W
 Nom. power: 400W RMS
 Sensitivity (2.83V/1m): 86.7dB
 Frequency response: 27Hz-500Hz



PS 165 V1

2-way component kit
 Diameter: 6¹/₂" (165mm)
 Polyglass cone
 Mounting depth: 2⁹/₁₆" (65.5mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0⁷/₁₆" (11.5mm)
 Magnet: 3¹/₁₆" (85mm)
 Processed Aluminum inverted dome tweeter
 Separated crossover: 0; -3; -6dB
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 92.5dB
 Frequency response: 60Hz-20kHz
 Supplied with grille



Sub P 25 DB

Diameter: 10" (250mm)
 Polypropylene cone
 Mounting depth: 5²⁹/₆₄" (138.6mm)
 Dual voice-coil
 Voice-coil diameter: 2" (50mm)
 Voice-coil height: 1" (25mm)
 Magnet: 5¹/₁₆" (145mm)
 Max. power: 500W
 Nom. power: 250W RMS
 Sensitivity (2.83V/1m): 90.9dB
 Frequency response: 42Hz-500Hz
 Impedance: 4Ω



Sub P 30 DB

Diameter: 12" (300mm)
 Polypropylene cone
 Mounting depth: 6⁵/₁₆" (160.5mm)
 Dual voice-coil
 Voice-coil diameter: 2³/₈" (60mm)
 Voice-coil height: 1¹/₈" (28mm)
 Magnet: 5¹/₁₆" (145mm)
 Max. power: 600W
 Nom. power: 300W RMS
 Sensitivity (2.83V/1m): 93.4dB
 Frequency response: 27Hz-500Hz
 Impedance: 4Ω



PC 100

2-way coaxial kit
 Diameter: 4" (100mm)
 Polyglass cone
 Mounting depth: 2" (51.5mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0³/₈" (9.5mm)
 Magnet: 2¹³/₁₆" (72mm)
 Processed Aluminum inverted dome rotating tweeter
 Integrated crossover: 6dB/oct
 Max. power: 100W
 Nom. power: 50W RMS
 Sensitivity (2.83V/1m): 90.9dB
 Impedance: 4Ω
 Frequency response: 100Hz-20kHz
 Supplied with grille



PC 130

2-way coaxial kit
 Diameter: 5" (130mm)
 Polyglass cone
 Mounting depth: 2¹/₄" (56.5mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0⁷/₁₆" (11mm)
 Magnet: 3¹/₁₆" (80mm)
 Processed Aluminum inverted dome rotating tweeter
 Integrated crossover: 6dB/oct
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 91.6dB
 Impedance: 4Ω
 Frequency response: 80Hz-20kHz
 Supplied with grille



PC 165

2-way coaxial kit
 Diameter: 6¹/₂" (165mm)
 Polyglass cone
 Mounting depth: 2⁹/₁₆" (65.5mm)
 Voice-coil diameter: 1" (25mm)
 Voice-coil height: 0⁷/₁₆" (11mm)
 Magnet: 3¹/₁₆" (80mm)
 Processed Aluminum inverted dome rotating tweeter
 Integrated crossover: 6dB/oct
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 93.6dB
 Impedance: 4Ω
 Frequency response: 60Hz-20kHz
 Supplied with grille



PERFORMANCE ACCESS

2 and 3-way component kits

130 AS

2-way component kit
Diameter: 5" (130mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 2¹/₈" (54.7mm)
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0⁷/₁₆" (11mm)
Magnet: 3¹/₃₂" (85mm)
Aluminum inverted dome tweeter
Adjustable tweeter level: 3 positions (-3/0/+3dB)
Separated crossover: 12/12dB/oct (5kHz)
Max. power: 100W
Nom. power: 50W RMS
Sensitivity (2.83V/1m): 90dB
Frequency response: 65Hz-20kHz
Supplied with grille



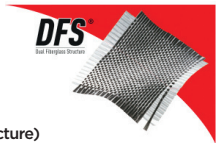
165 AS

2-way component kit
Diameter: 6¹/₂" (165mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 2¹/₂" (62.9mm)
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0⁷/₁₆" (11mm)
Magnet: 3¹/₃₂" (85mm)
Aluminum inverted dome tweeter
Adjustable tweeter level: 3 positions (-3/0/+3dB)
Separated crossover: 12/12dB/oct (5kHz)
Max. power: 120W
Nom. power: 60W RMS
Sensitivity (2.83V/1m): 91.3dB
Frequency response: 60Hz-20kHz
Supplied with grille



165 AS3

3-way component kit
Woofer diameter: 6¹/₂" (165mm)
DFS® cone (Dual Fiberglass Structure)
Midrange diameter: 3" (80mm)
Woofer mounting depth: 2¹/₂" (62.9mm)
Midrange mounting depth: 1²/₃" (42.5mm)
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0³/₁₆" (15mm)
Magnet: 3¹/₃₂" (85mm)
Aluminum inverted dome tweeter
Separated crossover: 6/12dB/oct (5kHz)
Adjustable Tweeter level: 3 positions (-3/0/+3dB)
Max. power: 160W
Nom. power: 80W RMS
Sensitivity (2.83V/1m): 90dB
Frequency response: 55Hz-20kHz
Supplied with grille



PERFORMANCE ACCESS

Coaxial kits

100 AC

2-way coaxial kit
Diameter: 4" (100mm)
Mounting depth: 2¹/₈" (52.2mm)
Voice-coil diameter: 1" (25mm)
DFS® cone (Dual Fiberglass Structure)
Voice-coil height: 0⁷/₁₆" (11mm)
Magnet: 2³/₁₆" (72mm)
Aluminum inverted dome tweeter
Integrated crossover: (4.7kHz) 6dB/oct
Max. power: 80W
Nom. power: 40W RMS
Sensitivity (2.83V/1m): 87.2dB
Frequency response: 70Hz-20kHz
Supplied with grille



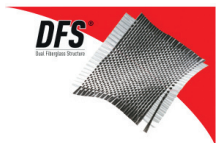
130 AC

2-way coaxial kit
Diameter: 5" (130mm)
Mounting depth: 2¹/₈" (54.7mm)
Voice-coil diameter: 1" (25mm)
DFS® cone (Dual Fiberglass Structure)
Voice-coil height: 0⁷/₁₆" (11mm)
Magnet: 3¹/₃₂" (85mm)
Aluminum inverted dome tweeter
Integrated crossover: (4.7kHz) 6dB/oct
Max. power: 100W
Nom. power: 50W RMS
Sensitivity (2.83V/1m): 89.3dB
Frequency response: 70Hz-20kHz
Supplied with grille

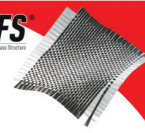


165 AC

2-way coaxial kit
Diameter: 6¹/₂" (165mm)
Mounting depth: 2¹/₂" (62.9mm)
Voice-coil diameter: 1" (25mm)
DFS® cone (Dual Fiberglass Structure)
Voice-coil height: 0⁷/₁₆" (11mm)
Magnet: 3¹/₃₂" (85mm)
Aluminum inverted dome tweeter
Integrated crossover: (4.7kHz) 6dB/oct
Max. power: 120W
Nom. power: 60W RMS
Sensitivity (2.83V/1m): 91dB
Frequency response: 60Hz-20kHz
Supplied with grille



DFS
Dual Fiberglass Structure



570 AC

2-way coaxial kit
Woofer: 5x7" (130x180mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 2^{11/32"} (59.5mm)
Voice-coil diameter: 1" (25mm)
Voice-coil height: 0^{7/16"} (11mm)
Magnet: 3^{11/32"} (85mm)
Aluminum inverted dome tweeter
Integrated crossover: (4.7kHz) 6dB/oct
Max. power: 120W
Nom. power: 60W RMS
Sensitivity (2.83V/1m): 88.65dB
Frequency response: 65Hz-20kHz
 Supplied without grille



690 AC

2-way coaxial kit
Woofer: 6x9" (164x235mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 3^{1/16"} (81.7mm)
Voice-coil diameter: 1^{3/16"} (30mm)
Voice-coil height: 0^{7/16"} (11mm)
Magnet: 3^{9/16"} (90mm)
Aluminum inverted dome tweeter
Integrated crossover: (4.7kHz) 6dB/oct
Max. power: 150W
Nom. power: 75W RMS
Sensitivity (2.83V/1m): 91.3dB
Frequency response: 50Hz-20kHz
 Supplied with grille



BOMBA BP20

Compact active subwoofer enclosure
 Class D amplifier
 High and low level audio input (OEM and after market head units compatibility)
 Bandpass technology
Subwoofer: 8" (200mm)
Dimensions (DxWxH): 17^{5/16"}x9^{13/16"}x12^{11/16"}
 (439x249x323mm)
Max. power: 300W
Nom. power: 150W RMS
Phase selector: 0-180°
Adjustable frequency cut off: 45Hz-120Hz
Frequency response: 20Hz-125Hz



Sub 25 A4

Subwoofer
Diameter: 10" (250mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 4^{63/64"} (126.6mm)
Single voice-coil
Voice-coil diameter: 2" (50mm)
Voice-coil height: 1" (25mm)
Magnet: 4^{1/4"} (120mm)
Max. power: 400W
Nom. Power: 200W RMS
Sensitivity (2.83 V/1m): 85dB
Frequency response: 36Hz-500Hz

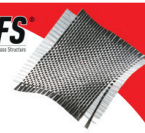


Sub 30 A4

Subwoofer
Diameter: 12" (300mm)
DFS® cone (Dual Fiberglass Structure)
Mounting depth: 4^{49/64"} (146.5mm)
Single Voice-coil
Voice-coil diameter: 2" (50mm)
Voice-coil height: 1" (25mm)
Magnet: 4^{3/4"} (120mm)
Max. power: 500W
Nom. Power: 250W RMS
Sensitivity (2.83 V/1m): 87dB
Frequency response: 32Hz-500Hz



DFS
Dual Fiberglass Structure



As well as all Focal's Car Audio solutions, Auditor kits feature an inverted dome tweeter for a true music precision in your car!

RCX-100

2-way coaxial kit
 Diameter: 4" (100mm)
 Polypropylene cone
 1" Mylar inverted dome tweeter
 Mounting depth: 1^{7/8}" (48.2mm)
 Voice-coil diameter: 1" (25mm)
 Magnet: 2^{63/64}" (76mm)
 Max. power: 60W
 Nom. power: 30W RMS
 Sensitivity (2.83V/1m): 88dB
 Frequency response: 80Hz-21kHz
 Supplied with grille, fastening and screws



RCX-130

2-way coaxial kit
 Diameter: 5" (130mm)
 Polypropylene cone
 1" Mylar inverted dome tweeter
 Mounting depth: 2^{9/64}" (54.5mm)
 Voice-coil diameter: 1" (25mm)
 Magnet: 3^{25/64}" (86mm)
 Max. power: 100W
 Nom. power: 50W RMS
 Sensitivity (2.83V/1m): 90dB
 Frequency response: 65Hz-21kHz
 Supplied with grille, fastening and screws



RCX-165

2-way coaxial kit
 Diameter: 6^{1/2}" (165mm)
 Polypropylene cone
 1" Mylar inverted dome tweeter
 Mounting depth: 2^{5/16}" (66.5mm)
 Voice-coil diameter: 1" (25mm)
 Magnet: 3^{25/64}" (86mm)
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 91.5dB
 Frequency response: 60Hz-21kHz
 Supplied with grille, fastening and screws



RCX-570

2-way coaxial kit, elliptic
 Woofer: 5"x7" (130x180mm)
 Polypropylene cone
 Mounting depth: 2^{23/64}" (60mm)
 Voice-coil diameter: 1" (25mm)
 1" Mylar inverted dome tweeter
 Magnet: 3^{1/3}" (85mm)
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83 V/1m): 91.6dB
 Frequency response: 60Hz-21kHz
 Supplied without grille



RCX-690

3-way coaxial kit, elliptic
 Woofer: 6"x9" (164x235mm)
 Mounting depth: 3^{1/64}" (80.5mm)
 Voice-coil diameter: 1^{3/8}" (35mm)
 Magnet: 4^{1/3}" (110mm)
 1" Mylar tweeter/medium
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 92dB
 Frequency response: 50Hz-21kHz
 Supplied with grille, fastening and screws



RSE-130

2-way component kit
 Diameter: 5" (130mm)
 Polypropylene cone
 Mounting depth: 2⁹/₆₄" (54.5mm)
 Voice-coil diameter: 1" (25mm)
 Magnet: 3²⁵/₆₄" (86mm)
 1" Mylar inverted dome tweeter
 Separated pre wired crossover (12dB/oct)
 Max. power: 100W
 Nom. power: 50W RMS
 Sensitivity (2.83V/1m): 90dB
 Frequency response: 65Hz-21kHz
 Supplied with grille, fastening and screws



RSE-165

2-way component kit
 Diameter: 6¹/₂" (165mm)
 Polypropylene cone
 Mounting depth: 2⁵/₈" (66.5mm)
 Voice-coil diameter: 1" (25mm)
 Magnet: 3²⁵/₆₄" (86mm)
 1" Mylar inverted dome tweeter
 Separated pre wired crossover (12dB/oct)
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 91.5dB
 Frequency response: 60Hz-21kHz
 Supplied with grille, bindings and screws



RSB-250

Subwoofer
 Diameter: 10" (250mm)
 Polypropylene cone
 Mounting depth: 4³⁹/₆₄" (117mm)
 Dual voice-coil: 4+4Ω
 Voice-coil diameter: 2" (50mm)
 Magnet: 5¹/₂" (140mm)
 Max. power: 500W
 Nom. power: 250W RMS
 Sensitivity (2.83 V/1m): 88dB
 Frequency response: 35Hz-500Hz



RSB-300

Subwoofer
 Diameter: 12" (300mm)
 Polypropylene cone
 Mounting depth: 5¹⁹/₃₂" (142mm)
 Dual voice-coil: 4+4Ω
 Voice-coil diameter: 2" (50mm)
 Magnet: 5⁴³/₆₄" (144mm)
 Max. power: 600W
 Nom. power: 300W RMS
 Sensitivity (2.83V/1m): 90dB
 Frequency response: 30Hz-500Hz



AP-4340

Class AB amplifier - 4/3/2 channels
 RCA inputs
 CEA Power (4Ω): 4x70W RMS
 Max. power (2Ω): 4x95W RMS
 Max. power (bridged 4Ω): 2x190W RMS
 High pass crossover (channel 1-2): 60Hz-1.2kHz
 High pass crossover (channel 3-4): 100Hz-2.2kHz
 Low pass crossover: 50-250Hz
 Full range mode
 Frequency response: 10Hz-30kHz
 Dimensions: (LxHx): 13²⁵/₆₄"x2"x9¹/₄" (340x50x235mm)



INTEGRATION

Instant gratification

Do you have a car and like listening to music? Do you want to improve its original audio system while keeping a discreet and perfectly integrated sound solution.

The solution is here: the Integration range of systems. Quick and easy to fit, even by owners themselves, these speakers guarantee the best of Focal Sound. There are no technical or aesthetic changes to your car interior; your car headunit is not changed, your steering-wheel controls work perfectly! At the heart of the **Universal** line, every compactly sized system is very simple to fit. If you have a vehicle covered by one of our dedicated kits, the **Plug & Play** range means you can enjoy an installation 100% compatible with original-fit equipment. Forget the old, now you can hear all the difference and live the emotion that comes from quality sound.



D1

PLUG & PLAY
Dedicated to your car 34

D2

UNIVERSAL
Total integration of Focal sound
in your car..... 38

IS 165 TOY

2-way component kit

Cars compatibility: Corolla, Yaris, Auris, Rav 4, Innova, Fortuner...

The tweeter needs to be adapted in factory location (fixing, glueing...)

Diameter: 6¹/₂" (165mm)

Fiberglass cone

Aluminum inverted dome compact tweeter

Integrated crossover: 6dB/oct

Max. power: 120W

Nom. power: 60W RMS

Sensitivity (2.83V/1m): 91dB

Frequency response: 60Hz-20Khz

Nominal impedance: 4Ω



IS 690 TOY

2-way component kit

Cars compatibility: Prius, Camry, Tacoma, Tundra, Alphard, FJ Cruiser...

The tweeter needs to be adapted in factory location (fixing, glueing...)

Diameter: 6"x9"

Fiberglass cone

Aluminum inverted dome compact tweeter

Integrated crossover: 6dB/oct

Max. power: 150W

Nom. power: 75W RMS

Sensitivity (2.83V/1m): 92dB

Frequency response: 50Hz-20kHz

Nominal impedance: 4Ω



TOYOTA is a registered trademark.

IC 690 TOY

2-way coaxial kit

Cars compatibility: Prius, Camry, Tacoma, Tundra, Alphard, FJ Cruiser...

Diameter: 6"x9"

Fiberglass cone

Aluminum inverted dome compact tweeter

Integrated crossover: 6dB/oct

Max power: 150W

Nom. power: 75W RMS

Sensitivity (2.83V/1m): 92dB

Frequency response: 50Hz-20kHz

Nominal impedance: 4Ω



IC 165 TOY

2-way coaxial kit

Cars compatibility*: Corolla, Yaris, Auris, Innova, Fortuner, Avanza, Altis, Hi-Lux, and for rear installation

Diameter: 6¹/₂" (165mm)

Fiberglass cone

Aluminum inverted dome tweeter

Integrated crossover: 6dB/oct

Max. power: 120W

Nom. power: 60W RMS

Sensitivity (2.83V/1m): 91dB

Frequency response: 60Hz-20kHz

Nominal impedance: 4Ω



*Non-exhaustive list of vehicles (update on www.focal.com).
Assembly can be different by countries.

IS 165 VW

2-way component kit

Cars compatibility front assembly*: Golf 6/Bora/Jetta ...

This kit can be assembled on the rear of: Golf 6/Tiguan

The tweeter needs to be adapted in factory location (fixing, glueing...)

Diameter: 6 1/2" (165mm)

Fiberglass cone

Aluminum inverted dome TN44 tweeter

Integrated crossover: 6dB/oct

Max. power: 120W

Nom. power: 60W RMS

Sensitivity (2.83V/1m): 92dB

Frequency response: 60Hz-20Khz

Nominal impedance: 4Ω



* Non-exhaustive list of vehicles (update on www.focal.com).
Assembly can be different by countries.

IC 165 VW

2-way coaxial kit

Rear or front assembly for car without tweeter factory location (Polo/Jetta...)*

Diameter: 6 1/2" (165mm)

Fiberglass cone

Aluminum inverted dome TN44 tweeter

Integrated crossover: 6dB/oct

Max. power: 120W

Nom. power: 60W RMS

Sensitivity (2.83V/1m): 92dB

Frequency response: 60Hz-20Khz

Nominal impedance: 4Ω



* Non-exhaustive list of vehicles (update on www.focal.com).
Assembly can be different by countries.

VOLKSWAGEN® is a registered trademark.



IFP 207

2-way component kit

Cars compatibility (Front assembly):

- 207

- 307 (with technical modifications)

- 308 (with technical modifications)

Diameter: 6 1/2" (165mm)

Polyglass cone

TNB Aluminum/Magnesium

inverted dome tweeter

Integrated crossover: 6/18dB/oct

Max. power: 140W

Nom. power: 70W RMS

Sensitivity (2.83V/1m): 92.7dB

Frequency response: 70Hz-25kHz



Peugeot® is a registered trademark of PSA.*



Installation 100% dedicated to Peugeot 207 in less than an hour.
Watch the demonstration video: www.focal.com/ifp207/en

IFBMW-S



2-way component kit*

Cars compatibility:

- BMW 1 serie (E81/82/87/88/F20*)
- BMW 3 serie (E90/91/F30/F31*)
- BMW 5 serie (F10*)*
- BMW X1 (E84)

Diameter: 4" (100mm)

Polyglass cone

TNB Aluminum/Magnesium

inverted dome tweeter

Integrated crossover: 18dB/oct (4kHz)

Max power: 80W

Nom power: 40W RMS

Sensitivity (2.83V/1M): 90.5dB

Frequency response: 85Hz-22kHz

Nominal impedance: 4Ω



IFBMW-C



2-way coaxial kit

Cars compatibility*:

- BMW 1 serie (E81/82/87/88/F20*)
- BMW 3 serie (E90/91/F30/F31*)
- BMW 5 serie (F10*)*
- BMW X1 (E84)

Diameter: 4" (100mm)

Polyglass cone

TNB Aluminum/Magnesium

inverted dome tweeter

Integrated crossover: 18dB/oct (4kHz)

Max power: 80W

Nom power: 40W RMS

Sensitivity (2.83V/1M): 90.5dB

Frequency response: 85Hz-22kHz

Nominal impedance: 4Ω



* Technical wire adaptation to fit in those cars models.
Non-exhaustive list of vehicles (update on www.focal.com).

* Technical wire adaptation to fit in those cars models.
Non-exhaustive list of vehicles (update on www.focal.com).

IFBMW-S



Installation 100% dedicated to BMW (3 Serie/1 Serie/X1) in less than an hour.
IFBMW-S demonstration video: www.focal.com/ifbmw-s/en

IFBMW-C



Installation 100% dedicated to BMW (3 Serie/1 Serie/X1) in less than an hour.
IFBMW-C demonstration video: www.focal.com/ifbmw-c/en

IFBMW-SUB.V2

Subwoofer (sold by unit)

Cars compatibility* (under the front seats in ABS factory location)

- BMW 1 Series (E81/82/87/88-F20/21),
- BMW 3 Series (E90/91/92/93-F30/F31),
- BMW X1 (E84),
- BMW 5 Series (F10/F11)

Possibilities of adaptation in other models.

Diameter: 8" (200mm)

Polypropylene cone

Mounting depth: 1³⁹/₆₄" (41mm)

Power, sensitivity and frequency response were measured in real car situation

Max power: 180W

Nom power: 90W RMS

Sensitivity (2.83V/1m): 90.5dB (58Hz)

Frequency response: 38Hz-200Hz

Nominal impedance: 3.6Ω

Accessory: Metal grille (top cover)



* Upgrade for BMW® factory standard level.
Non-exhaustive list of vehicles.

IMPULSE 4.320

Class D ultra-compact 4 channels amplifier - 4/3/2 channels
 CEA power (4Ω): 4x55W RMS
 Power max (2Ω): 4x80W RMS
 Power max (4Ω bridged): 2x160W RMS
 Activatable/deactivatable crossovers fixed at 75Hz on channels 1/2
 Configurable Crossovers from 40Hz-200Hz on channels 3/4
 Adjustable Phase 0/180° on channels 3/4
 Copy Mode (4CH/2CH)
 Protections: Short circuit/over-current/reverse polarity/DC/voltage drop/heat protection
 Dimensions (HxWxD): 6 7/8"x2 5/8"x1 7/8" (175x66.5x47mm)
 Weight: 1.2lbs (550g)



IY - AC IMPULSE 4.320

Adapter Y cable - Focal Impulse 4.320
 ISO standard
 Easy Plug & Play installation
 Length: 1m
 No soldering or modification of your original system
 ISO standard compatible

Ibus 2.1

True 2.1 system - Unique concept!
1 amplifier for the subwoofer + 1 amplifier for the front channels very high power.

Active enclosure with 8" (20cm) subwoofer
 Max. power: 150W
 Nom. power: 75W RMS
 Frequency response: 45Hz-150Hz
 High-level inputs
 Autopower ON
 Amplification 2 front channels
 Nom. power: 2x55W RMS
 Max. power: 2x110W max.
 Dimensions (HxWxD):
 2 3/16"x13 9/16"x9 3/16" (71.5x344x250mm)



Ibus 20

Active enclosure with 8" (20cm) subwoofer
 Max.power: 150W
 Nom. power: 75W RMS
 Frequency response: 45Hz-150Hz
 High-level inputs
 Autopower ON
 Dimensions (HxWxD):
 2 3/16"x13 9/16"x9 3/16"
 (71.5x344x250mm)



IY Bus

Only one remote control to control the sound level of the two Ibus enclosures (Ibus 20/2.1)
 Supplied with cables



ISU 130

NEW

2-way component kit
 Diameter: 5" (130mm)
 Mounting depth: 1^{59/64}" (48.9mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover (connectors): 6dB/oct
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 91.8dB
 Frequency response: 90Hz-21kHz
 Accessories: tweeter support, crossover on connectors
 Supplied without grille



ISU 165

NEW

2-way component kit
 Diameter: 6^{1/2}" (165mm)
 Mounting depth: 1^{29/32}" (48.4mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover (connectors): 6dB/oct
 Max. power: 140W
 Nom. power: 70W RMS
 Sensitivity (2.83V/1m): 93dB
 Frequency response: 60 Hz-21kHz
 Accessories: tweeter support, crossover on connectors
 Supplied without grille



ISU 200

NEW

2-way component kit
 Diameter: 8" (200mm)
 Mounting depth: 2^{1/2}" (63.5mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover (connectors): 6dB/oct
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83V/1m): 93dB
 Frequency response: 40Hz-21kHz
 Accessories: tweeter support, crossover on connectors
 Supplied without grille



ISU 690

NEW

2-way component kit
 Diameter: 6x9" (164x235 mm)
 Mounting depth: 3^{9/32}" (83.5mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover (connectors): 6dB/oct
 Max. power: 160W
 Nom. power: 80 W RMS
 Sensitivity (2.83 V/1m): 93.6 dB
 Frequency response: 55 Hz - 21 kHz
 Accessories: tweeter support, crossover on connectors
 Supplied without grille



Tweeter TWU 1.5

NEW

Max. power: 100W
 Nom. power: 15W RMS
 Sensitivity (2.83V/1m): 94dB
 Integrated crossover: 6dB/oct
 Aluminum/Magnesium inverted dome tweeter
 4 possibilities: Flush, surface, tilted mouting, in factory location



* Aluminum/Magnesium

EASILY IMPROVE...

Inverted Al/Mg* dome tweeter
 Compact Shape



Clearer and more detailed sound
 Easy installation

New basket design



Optimized dimensions and depth

ICU 100

NEW

2-way coaxial kit
 Diameter: 4" (100mm)
 Mounting depth: 3¹⁵/₁₆" (49mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 80W
 Nom. power: 40W RMS
 Sensitivity (2.83V/1m): 90.3dB
 Frequency response: 90Hz-21kHz
 Supplied without grille



ICU 130

NEW

2-way coaxial kit
 Diameter: 5" (130mm)
 Mounting depth: 1⁹⁹/₆₄" (48.9mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 91.8dB
 Frequency response: 80Hz-21kHz
 Supplied without grille



ICU 165

NEW

2-way coaxial kit
 Diameter: 6¹/₂" (165mm)
 Mounting depth: 2" (50mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 140W
 Nom. power: 70W RMS
 Sensitivity (2.83V/1m): 93dB
 Frequency response: 60 Hz-21kHz
 Supplied without grille



ICU 570

NEW

2-way coaxial kit
 Diameter: 5x7" (130x180mm)
 Mounting depth: 2²¹/₆₄" (59.3mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 120W
 Nom. power: 60W RMS
 Sensitivity (2.83V/1m): 94dB
 Frequency response: 65Hz-21kHz
 Supplied without grille

ICU 690

NEW

2-way coaxial kit
 Diameter: 6x9" (165x237mm)
 Mounting depth: 3⁹/₃₂" (32.5mm)
 Polyglass cone
 Voice-coil diameter: 1" (25mm)
 Aluminum/Magnesium inverted dome tweeter
 Integrated crossover: 6dB/oct
 Max. power: 160W
 Nom. power: 80W RMS
 Sensitivity (2.83 V/1m): 93.6dB
 Frequency response: 55Hz-21kHz
 Supplied with grille



...YOUR OEM AUDIO SYSTEM

Flush inverted Al/Mg* dome tweeter



Easy and optimized installation

Adjustable Tweeter Level



High frequencies performance tuning

ACCESSORIES

When you replace your factory audio system, you're bound to have high expectations in terms of acoustics. Accessories are essential components of your audio architecture for helping you to achieve the sound you want. Focal offers various solutions for meeting your amplification needs with the **Hilo V2**. Accessories and cables also optimise the connections between your system's elements: the head unit, the electronics and the acoustic components. They guarantee high-quality audio and ensure the safety of your Hi-fi installation, and they meet your expectations in terms of Hi-fi quality.

By using the appropriate accessories, you're sure to get the best out of your audio system.

Hilo.V2

Converts a stereo amplified signal in two low-level line outputs for an amplifier.

Eliminates parasitic interferences - separated grounds

Selectable DC and AC voltages detection - full compatibility with any original manufacturer head-units.

Automatically generates a remote control signal to activate the associated amplifier can be used in passive mode without 12V power supply (In that case the remote output doesn't work).

HILO.V2

High-level to RCA line stereo converter

Converts a stereo amplified signal in two low-level line outputs for an amplifier

Bandwidth: (+/-1dB) : 10Hz - 80kHz

Signal/Noise ratio > 100dB

Distorsion < 0.01%

DC and AC detection modes

Automatic remote output





PK8

8 AWG
Complete supply kit
 (Amplifier-speakers)
 16ft (4.9m) supply cable (8.3mm²)
 3.3ft (1m) ground cable (8.3mm²)
 32.8ft (10m) speaker cable
 16.4ft (5m) remote cable
 16.4ft (5m) RCA cable
 (2x90° bent plugs and 2 straight plugs)
 60A fuse-box
 Accessory pack

PK21

4AWG
Complete supply kit
 (Amplifier-speakers)
 16ft (4.9m) supply cable (21mm²)
 3.3ft (1m) ground cable (21mm²)
 32.8ft (10m) speaker cable
 16.4ft (5m) remote cable
 16.4ft (5m) RCA cable
 (2x90° bent plugs and 2 straight plugs)
 80A fuse-box
 Accessory pack

ER1

RCA cable
 1x1m (3.3ft)

ER5

RCA cable
 1x5m (16.4ft)

ER3

RCA cable
 1x3m (9.9ft)

EY05

RCA cable
 2x0.5m (2x1.64ft)



ES15

1 roll: 15 AWG
 12mx1.5mm²
 (39ft)

ES4

1 roll: 11 AWG
 12mx4mm²
 (39ft)

ES25

1 roll: 13 AWG
 12mx2.5mm²
 (39ft)



PR5

RCA cable
 5m (16.4ft)
 Male/male plugs
 2x90° bent plugs
 for difficult locations



PS15

Flat speaker cable.
 15 AWG/1.5mm²
 High performances, easy to install.
 Soft touch insulant.
 Roll: 39ftx15 AWG
 (12mx1.5mm²)

PS25

Flat speaker cable.
 13 AWG/2.5mm²
 High performances, easy to install.
 Soft touch insulant.
 Roll: 39 ft x 13 AWG
 (12mx2.5mm²)



B.A.M.

3 technical materials, 3 strategic functions

This acoustic insulation kit is completing and essential to a quality car audio installation. From its use depends optimum acoustic rendering of speakers, amplifiers and installed accessories. Technical materials made of honeycombed damping material, an aluminum sheet and a viscoelastic complex (Butyl).

B.A.M. XXXL

1 roll of 19^{11/16"}x236^{1/4"} (50x600cm) (3m²)



Tool Set

Set of 11 composite tools to remove door panel.

The complementary product for quality car audio installations without risk of aesthetic damage.



B.A.M.

2 sheets 8^{1/4"}x11^{3/16"} (21x30cm)



B.A.M. XL

1 sheet 19^{11/16"}x78^{3/4"} (50x200cm) (1m²)

classic loudspeakers



headphones & multimedia



car audio



studio monitors



FOCAL

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