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
For the past forty years, Focal has been stamping its unique sound signature on high-end speaker drivers and acoustic loudspeakers. We are renowned for our innovations, which have given birth to exclusive technologies. Some of our audio solutions have become world-renowned references.

Our philosophy is to promote our expertise made in France. All our products are designed and developed in our workshops and benefit from innovations inherited from constant research in the acoustic field. The result of our patent-awarded technological heritage is a sound reproduction imbued with clarity, power and a natural quality, offering the best audio systems in their category. Our unique goal is to take you beyond sound: Listen Beyond.

A leader on the markets of hi-fi loudspeakers for the house, headphones and studio monitors, Focal is as highly regarded in the world of in-car audio. Since the 1990s, we have been offering unique audio systems and a wide range of audio kits to manufacturers, combining the pleasure of driving with the love of sound and music.

In our quest for excellence and the satisfaction of all music lovers, we have also created the Focal Inside concept. This offer allows all vehicle drivers who have not been able to benefit from a premium sound system to install a quality Focal system that meets their needs and integrates perfectly and discreetly into their car.
Focal Inside is an offer for all drivers who want access to quality, custom Plug & Play solutions that are perfectly suited to their vehicles.

From the ‘simplest’ kit to the most complete amplified system, the Focal Inside offer is quick and easy to install in place of the original system, without modifying the environment.

Our offer covers more than 20 car manufacturers and is compatible with over 300 vehicles. To guide you in your choice of audio system, we have developed a dedicated website. By selecting your vehicle model and desired level of customisation, you can build your sound experience and configure the solution best suited to your requirements, in just a few clicks.

Check your vehicle compatibility on: www.focal-inside.com
### ICC BMW 100
- **Type**: 2-way coaxial center voice
- **Diameter**: 4" (100mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 80W
- **Nom. power**: 40W RMS
- **Frequency response**: 90Hz-23kHz
- **Accessories**: Supplied with mounting accessories

### IC BMW 100
- **Type**: 2-way coaxial kit
- **Diameter**: 4" (100mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 80W
- **Nom. power**: 40W RMS
- **Frequency response**: 90Hz-23kHz
- **Accessories**: Supplied with mounting accessories

### IC BMW 100L
- **Type**: 2-way coaxial kit
- **Diameter**: 4" (100mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 80W
- **Nom. power**: 40W RMS
- **Frequency response**: 90Hz-23kHz
- **Accessories**: Supplied with mounting accessories

### IS BMW 100
- **Type**: 2-way component kit
- **Diameter**: 4" (100mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 80W
- **Nom. power**: 40W RMS
- **Frequency response**: 90Hz-23kHz
- **Accessories**: Supplied with mounting accessories

### IS BMW 100L
- **Type**: 2-way component kit
- **Diameter**: 4" (100mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 180W
- **Nom. power**: 90W RMS
- **Frequency response**: 35Hz-200kHz
- **Accessories**: Supplied with mounting accessories

### ISUB BMW 2
- **Type**: Subwoofer
- **Diameter**: 8" (200mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 180W
- **Nom. power**: 90W RMS
- **Frequency response**: 35Hz-200kHz
- **Accessories**: Supplied with mounting accessories

### ISUB BMW 4
- **Type**: Subwoofer
- **Diameter**: 8" (200mm)
- **Motor**: Neodymium
- **Cone**: Black Polyglass
- **Impedance**: 4Ω
- **Max. power**: 180W
- **Nom. power**: 90W RMS
- **Frequency response**: 35Hz-200kHz
- **Accessories**: Supplied with mounting accessories

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Regarding BMW X5 and BMW X6 models, the use of KIAC1122 spacers is necessary.
<table>
<thead>
<tr>
<th>IC PSA 165</th>
<th>IS PSA 165</th>
<th>IFP 207</th>
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<tbody>
<tr>
<td><strong>Type</strong></td>
<td>2-way coaxial kit</td>
<td>2-way component kit</td>
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<tr>
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<td>6¾&quot; (165mm)</td>
<td>6¾&quot; (165mm)</td>
</tr>
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<td>Ferrite</td>
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<td>Black Polyglass</td>
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<tr>
<td><strong>Impedance</strong></td>
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<tr>
<td><strong>Tweeter</strong></td>
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<td>Aluminium/Magnesium inverted dome tweeter</td>
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<td>93.2 dBA</td>
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<td>60Hz-20kHz</td>
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<td>IC REN 130</td>
<td>IC RNS 165</td>
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<td><strong>Type</strong></td>
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<td>2-way coaxial kit</td>
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<td><strong>Tweeter</strong></td>
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<td>Aluminum inverted dome tweeter</td>
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<td>120W</td>
</tr>
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<td>60W RMS</td>
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<tr>
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<td>Supplied with mounting accessories</td>
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<th>IS REN 130</th>
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<td>2-way component kit</td>
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<td>Ferrite</td>
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<td><strong>Tweeter</strong></td>
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<td><strong>Max. power</strong></td>
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<td>120W</td>
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<tr>
<td><strong>Nom. power</strong></td>
<td>60W RMS</td>
<td>60W RMS</td>
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<td><strong>Sensitivity (2,83 V/1 m)</strong></td>
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<td>80Hz-28kHz</td>
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<td>IS TOY 690</td>
<td>IS TOY 165</td>
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<td><strong>Type</strong></td>
<td>2-way coaxial kit</td>
<td>2-way component kit, elliptic</td>
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<td>6 1/2&quot; (165mm)</td>
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<td>Ferrite</td>
</tr>
<tr>
<td><strong>Cone</strong></td>
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<td>Black Polyglass</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
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<td>4Ω</td>
</tr>
<tr>
<td><strong>Tweeter</strong></td>
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<td>Aluminum inverted dome tweeter</td>
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<td><strong>Max. power</strong></td>
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<td>120W</td>
</tr>
<tr>
<td><strong>Nom. power</strong></td>
<td>60W RMS</td>
<td>60W RMS</td>
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<tr>
<td><strong>Sensitivity (2.83 V/1 m)</strong></td>
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<td>92.3dB</td>
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<td><strong>Frequency response</strong></td>
<td>60Hz-20kHz</td>
<td>60Hz-20kHz</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
</tr>
</tbody>
</table>
### IC 165 VW
- **Type**: 2-way coaxial kit
- **Diameter**: 6 1/2” (165mm)
- **Motor**: Ferrite
- **Cone**: Fiberglass
- **Impedance**: 4Ω
- **Tweeter**: Aluminium inverted dome tweeter
- **Max. power**: 120W
- **Nom. power**: 60W RMS
- **Sensitivity (2,83 V/1 m)**: 90 dB
- **Frequency response**: 60Hz-20kHz
- **Accessories**: Supplied with mounting accessories

### IS 165 VW
- **Type**: 2-way component kit
- **Diameter**: 6 1/2” (165mm)
- **Motor**: Ferrite
- **Cone**: Fiberglass
- **Impedance**: 4Ω
- **Tweeter**: Aluminium inverted dome tweeter
- **Max. power**: 120W
- **Nom. power**: 60W RMS
- **Sensitivity (2,83 V/1 m)**: 90 dB
- **Frequency response**: 60Hz-20kHz
- **Accessories**: Supplied with mounting accessories
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
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<th>Cone</th>
<th>Impedance</th>
<th>Tweeter</th>
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<th>Sensitivity</th>
<th>Frequency response</th>
<th>Accessories</th>
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<tbody>
<tr>
<td>HDA 165 - 98/2013</td>
<td>2-way component kit</td>
<td>6 1/2&quot; (165mm)</td>
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<td>Fiberglass DFS®</td>
<td>4Ω</td>
<td>Compression inverted dome tweeter</td>
<td>160W</td>
<td>80W RMS</td>
<td>92.5dB</td>
<td>70Hz-22kHz</td>
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<tr>
<td>HDA 165 - 2014 UP</td>
<td>2-way component kit</td>
<td>6 1/2&quot; (165mm)</td>
<td>Ferrite</td>
<td>Fiberglass DFS®</td>
<td>4Ω</td>
<td>Compression inverted dome tweeter</td>
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<td>125W RMS</td>
<td>92.5dB</td>
<td>60Hz-24kHz</td>
<td>Supplied with mounting accessories</td>
</tr>
<tr>
<td>HDK 165 - 98/2013</td>
<td>2-way component kit</td>
<td>6 1/2&quot; (165mm)</td>
<td>Ferrite</td>
<td>K2</td>
<td>2Ω</td>
<td>M-profile inverted dome tweeter</td>
<td>250W</td>
<td>125W RMS</td>
<td>92.5dB</td>
<td>60Hz-24kHz</td>
<td>Supplied with mounting accessories</td>
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<td>HDK 165 - 2014 UP</td>
<td>2-way component kit</td>
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<td>K2</td>
<td>2Ω</td>
<td>M-profile inverted dome tweeter</td>
<td>250W</td>
<td>125W RMS</td>
<td>92.5dB</td>
<td>60Hz-24kHz</td>
<td>Supplied with mounting accessories</td>
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</tbody>
</table>

- **Type**: 2-way component kit
- **Diameter**: 6 1/2" (165mm)
- **Motor**: Ferrite
- **Cone**: Fiberglass DFS®
- **Impedance**: 4Ω
- **Tweeter**: Compression inverted dome tweeter
- **Max. power**: 160W
- **Nom. power**: 80W RMS
- **Sensitivity**: 92.5dB
- **Frequency response**: 70Hz-22kHz
- **Accessories**: Supplied with mounting accessories
To achieve a full and high-performing audio system, our engineers have designed and developed dedicated Focal Inside amplifiers and cables.

Thanks to the cutting-edge Focal amplifiers, experience how it feels to enjoy precise, controlled and stable sound in your car, all as compact as you need it to be.

- Delivering 660 watts RMS, the FIT 9.660 ultra-compact 9-channel amplifier/DSP provides power, dynamics and depth to the sound. Enjoy the total pleasure of listening to your car audio and your favourite music. Compatible with a wide range of kits and vehicle models, this amplifier/DSP offers multiple audio configurations, easily installed via a dedicated USB port.

- The Impulse 4.320 4-channel digital amplifier allows your speaker drivers to express their full potential. Compact, they have a 2- or 4-channel input selector and deliver 4 x 55 watts. Perfect for improving your installation’s dynamics.

Optimising the connections between car radio, electronics and acoustics, Focal Inside cables are an essential addition to all quality installations. Developed by our experts to offer you the choice of a bespoke system, they play a key role in your audio architecture. Adaptation cables, extension cables, connection cables, direct power cables, impedance simulator, and more: Focal Inside cables guarantee the performance and safety of your installation.
FIT 9.660

- Type: Amplifier
- DSP: 9-channel DSP
  - 3-channel Class A/B (tweeters + central speaker)
  - 6-channel Class D (woofers/subwoofers, etc.)
- EQ: 10 parametric EQ bands (inputs and outputs)
  - High-pass, low-pass and band-pass crossover (0/24dB with a variable Q factor)
  - Time alignment: adjustment per 0.05ms phase per channel
- Crossover: Parametric limiter for each output channel (limited power)
  - Time alignment: adjustment per 0.05ms phase per channel
- Limiter: Parametric limiter for each output channel (limited power)
- Expansion/Compression: Current regulation
- Phase Inversion: Adjustment of the parametric phase inversion

- CEA Power: 3 x 20W RMS + 6 x 70W RMS
  - 5 x 20W RMS (4Ω)
  - 6 x 50W RMS (2Ω)
- Max. Power: 1300 W
- Weight: 3.53lb (1.6kg)
- Dimensions: 8 7/16" x 6 1/16" x 1 3/4" (215 x 153 x 45mm)

Find the cables designed for your vehicle at www.focal-inside.com
FIT 9.660 is compatible with a wider range of kits and vehicles! To enjoy this amplifier/DSP fully and get the best from your system, download the configuration matching your criteria and install it easily via a dedicated USB port.

FIT 9.660 CONFIGURATION

STEP 1
www.focal-inside.com
Select your vehicle MAKE and MODEL.

STEP 2
Download the selected CONFIGURATION onto a USB KEY.

STEP 3
After the FIT 9.660 is installed in your car, please insert the USB key. Then, start the ignition and turn your head unit on. Once you hear these messages: "Loading preset started, do not remove USB key" and "Loading preset successful", you can remove the USB key.

STEP 4
Enjoy your Focal Inside installation!
**IMPULSE 4.320**

- **Type**: Class D ultra-compact Amplifier - 4/3/2 channels
- **CEA power (4Ω)**: 4 x 55W RMS
- **Max. power (2Ω)**: 4 x 80W RMS
- **Max. power (4Ω bridged)**: 2 x 160W RMS
- **Crossovers**: Activate/deactivate fixed at 75Hz on channels 1/2 Configurable from 40Hz-200Hz on channels 3/4
- **Copy mode**: 4CH/2CH
- **Setting**: Adjustable phase 0°/180° on channels 3/4
- **Protections**: Short circuit / Over-current / Reverse polarity / DC / Voltage drop / Heat protection
- **Weight**: 1.2lbs (550g)
- **Dimensions (LxHxW)**: 6.75” x 1.77” x 2.56” (175 x 47 x 66,5mm)

*The impedance simulator compensates for disconnecting original speaker drivers after they have been replaced by Focal Inside speaker drivers. It enables the installation of your new audio system to be optimal and guaranteed to be error-free.*

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Find the cables designed for your vehicle at [www.focal-inside.com](http://www.focal-inside.com)
Discover all the Focal Inside kits and check your vehicle compatibility on:
www.focal-inside.com