



**MANUAL**

**XIRCUIT**

***X-6.2/X-5.2/X-4.2 COMPO***

***WWW.XETEC.DE***

***...ALWAYS AHEAD!***



## XETEC® “Xircuit” speaker systems X-6.2 / X-5.2 / X-4.2 Compo

Congratulations! You have chosen one of XETEC’s most sophisticated products. Your choice will be rewarded.

We have developed a high performance speaker system with many optional adjustments that allow you to chose your personal and individual sound character. Experiments are strictly allowed! In order to enjoy the XETEC “Xircuit” Speaker Systems at their best, you should carefully read this manual.

### **XETEC Xircuit speakers. The premium choice!**

The XETEC “Xircuit” series Speaker Systems have been developed for premium performance car audio sound systems. They can reveal every detail of your music, when connected to adequate amplifiers. Only the finest materials as well as many applied patents can guarantee a result like this.

#### **The XETEC “Xircuit” series compo speakers:**

Premium performance 2-way speaker system with a 6,5”, 5,25” or 4” woofer in a non-resonant ABS basket, and a 25 mm tweeter (the X-25) with flush-, surface- and wedge-mount housings.

The **W-6, W-5** and **W-4 woofers** are equipped with black glassfibre cones and high performance glassfibre coil-formers carrying CCAW wire for high efficiency and linearity. Custom-made for XETEC by VIFA, Denmark. The same woofers are used for the unique XETEC Gravity series “Modular Speaker System”.

The unique glass-fibre cone with its high inner damping of resonances produces the most natural sound quality possible. It is very stiff and non-resonant, but still light-weight.

The 25 mm voice-coil on the glass-fibre former provides optimised power handling, and fast response, whereas the specially-designed low loss surround avoids reflections, and thus provides linearisation of the frequency response.

The ABS basket geometry avoids any reflections or compression effects on the back side of the membrane, and ensures an open, clear sound reproduction.

The optimised long-stroke voice-coil design allows high sound pressure levels without compression effects.

The **X-25 tweeter** also is based on a VIFA 25 mm voicecoil and silk dome with optimised geometry to provide a perfectly linearised dispersion. The result is a clean, detailed sound character, with high neutrality and resolution.

The **Xircuit X-series compos** allow a stunning combination of powerful dynamics, and attention to fine details.

### Installation:

- For optimal safety, the product must be fixed to the vehicle. Please use the screws of the installation set.
- Do not drill holes into parts of the vehicle at locations where you do not know what is behind. Please check first, if there are fuel pipes or cables.
- Always make sure to install signal cables far away from power cables to avoid interference and alternator noise.
- Do not bend the speaker housings and baskets.
- Use only high-quality amplifiers with suitable power rating.

Please also check the correct polarity when you connect your speakers. Reversed polarity leads to poor sound quality.

#### WARNING:

XETEC loudspeakers can produce very high sound pressure levels, that may distract from traffic or cause hearing defects when played long time at high level.

XETEC design group GmbH does not take any responsibility. So, always be careful with the volume adjustment.

XETEC recommends the following highpass frequency adjustments at your amplifiers:

Do not adjust the highpass filter of your amplifier at too low frequency! Damagemay occur to the speakers. The following recommendations provide optimal power handling and sound quality.

**X-6.2:** 70 - 100Hz, 12dB in door installation, **X-5.2:** 80 - 120Hz, 12dB in door installation, **X-4.2:** 100 - 140Hz, 12dB in door installation

**Tweeter Level adjust:** 0dB / -2dB / -4dB

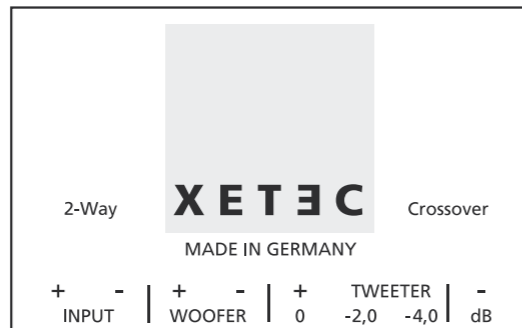
### XETEC xircuit X-1 crossover

#### Input and speaker Terminals:

Input: +/- Speaker signal input from the amplifier

Woofer: +/- terminals for the woofer

Tweeter: +/- terminals for the tweeter



### Technical data XETEC Xircuit compo speaker systems:

Woofer Model	W-6	W-5	W-4
Impedance (Ohm):	4	4	4
Power Handling (Watt):	120	100	80
Peak Power (Watt):	150	120	100
SPL (dB/1W/1m):	90	88	86
Lowest frequency (Hz):	45	65	100

### Tweeter X-25

Frequency range:	3,3 - 22kHz
Res.Freq. (kHz):	2,2
Power Handling (Watt max.):	40W**
Impedance (Ohm):	4

\*\*Only with XETEC X-1 crossover!

### X-1 speaker crossover

X-over frequency:	ca. 3.600Hz
Tweeter level select:	0dB / -1,5dB / -3dB
Warranty period:	1 year (EU 2 years)

### W-6, W-5 and W-4 Woofers Thiele-Small Parameters:

Parameter	XETEC W-6	XETEC W-5	XETEC W-4
Fs (Hz)	48,10	71,6	138,10
Qms	5,10	2,82	3,02
Qes	0,50	0,62	0,91
Qts	0,46	0,51	0,70
BL	5,01	4,10	3,81
Rdc (Ohm)	3,47	3,10	3,06
Md (g)	11,96	7,52	4,99
Vas (Liter)	22,85	5,50	0,90
Le (mH)	0,48	0,42	0,34
Sd (cm <sub>2</sub> )	133,0	77,0	49,0