

Create your own sound.



*This PA system is setting the standards
for mobile and compact sound technology.**

XPERIENCE IV

FULLY DIGITAL SOUND SYSTEMS.

Active PA systems of the finest quality. Made in Germany.



Xperience IV – sets the standard for active, compact PA systems.

Combining innovative technology, ease of operation and top-quality sound production is the number one priority for all our products. Fulfilling the wishes and requirements of sound engineers, musicians and DJs is a vital ingredient in our recipe for success. Once again, we have ventured beyond our own back yard with the aim of combining inspiration with innovation.

The result is Xperience IV, a digital active PA system with a unique concept. The flexible system with 18" active Subs and a selection of Tops incorporates state-of-the-art digital amplifiers and specially developed digital signal processors – FOHNN FUSION DSPs – which continually control and protect the system while guaranteeing maximum sound quality, operating reliability and versatility. Xperience is extremely lightweight and easy to set up and operate.

Fulfill your own personal sound requirements with Xperience IV. We have integrated 5 high-quality audio devices, which can be programmed individually to suit your needs. No racks or tangled cables, occupies less space, quicker set-up times and less stress!

Well-equipped for the future with Xperience IV. The system is extremely versatile, easily upgradeable and allows you to adapt to different venue sizes and event types. Several systems can be interlinked into a network and operated remotely from a central mixer desk using a notebook. Watch out future, here we come!



ENCE IV



- **The lightest system in its class**

CLASS D amplifiers and neodym speakers keep weight to a minimum.

- **Unique – FOHNN FUSION DSP technology**

Pre-programmed room presets (tent, hall, etc.). Individually programmable sound presets. Speaker presets for all Fohhn Tops. Maximum operating reliability.

- **Easy and quick to set up – plug & play**

Plug in and get started. Perfect sound from the word go.

- **Top-quality sound at all volume levels**

Guaranteed by excellent multiband processing.

- **5 top-quality audio devices for individual sound**

Integral EQ, limiter, compressor, delay and noise gate for professional signal processing. For your own personal sound or adaptation to the venue requirements. No racks required, less space occupied.

- **Easy to operate via display or notebook**

All settings can be adjusted via the display on the active Sub or remotely using FOHNN FUSION DSP software and a notebook.

- **Top-class German products**

Outstanding workmanship and excellent service and support.

With the future in mind.



Uncompromising technology – unique and extremely flexible

Xperience IV was developed in close collaboration with musicians, DJs and sound engineers. Apart from excellent sound production, one of our main development objectives was to engineer a system that is easy to operate, lightweight and exceedingly flexible. FOHNN FUSION DSP technology fulfills every one of these requirements.

Xperience IV can be used as a simple plug & play system or can be extended by the use of the integrated DSP. The XS-4 active subwoofer has special speaker presets for all mobile Fohhn top units. The Xperience IV adapts itself perfectly at the press of a button, whether you use 6"/1", 10"/1", 12"/1, 12"/1,4" or 15"/1,4" systems. All performance data, crossover and limit points are stored in the FOHNN FUSION DSP so that each individual mid, high and bass speaker is protected at all times. As a result, music and speech production is powerful, transparent and refined at all volume levels.

Plug in and get started.

TOP XT-33
500 W, 12"/1" CD horn
Latest neodym technology
only 19 kg

Active SUB XS-4
1,500 W Class D amplifier,
18" neodym speaker,
integral FOHNN FUSION DSP,
with EQ, dynamic processor,
room delay, etc.
only 39 kg



Practical system combinations for bands, DJs, entertainers and rental



POWER SYSTEM

2 x active SUB XS-4 and choice of
2 x TOP XT-4 (12"/1.4" CD horn)
or 2 x TOP XT-5 (15"/1.4" CD horn)



Basic version: 1 x active SUB XS-4 and 2 x XT-33 (12"/1" CD). Sub and Tops fitted with lightweight neodym speakers. Fits easily into a passenger car and has high power reserves. Ideal for events with an audience of up to 400 people. System output: 1,500 W. One SUB XS-4 can run up to 4 Tops.

Power version: 2 x active SUB XS-4 in bridge mode and the choice of 2 x XT-4 (12"/1.4" CD) or 2 x XT-5 (15"/1.4" CD). XT-4 and XT-5 are fully equipped with state-of-the-art neodym speakers. The perfect system for shows and parties with impressive power. Suitable for events with an audience of 700 - 1,000 people. System output: 3,000 W.

Larger systems: The active SUB XS-4 operates with all Fohhn Tops. You can add any number of subwoofers to the system and combine it with large horn-loaded Fohhn Tops (Roadline, Perform) to cater for larger events with an audience of 3,000 or more.

We would be glad to provide you with assistance.

John Moore, Chief Editor, MUSIC MART, England

"Man that Sub can kick it out..."

... the XS-4 once again includes a subwoofer that is significantly more powerful than the smaller Xperience systems – no question about it; this is a result of the more powerful amplifier and larger 18" system. It forms a formidable partnership with 12" XT-33 Tops, which as always, produce a clear, crisp sound with full mids... a PA system that can be used in a wide range of applications, with an intelligent audio design and excellent production quality."

Test report 7/2005

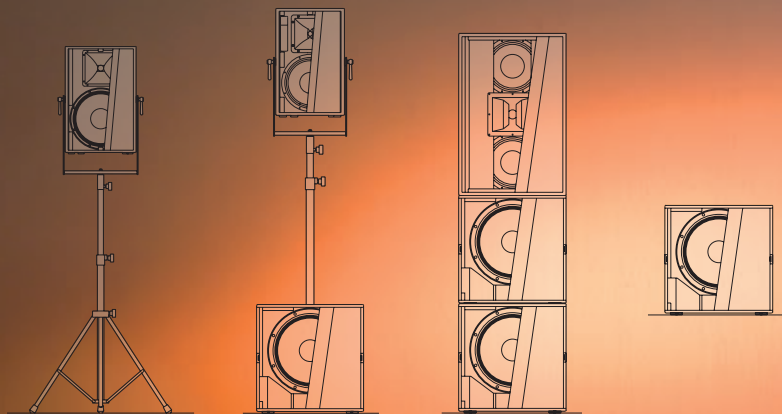


The flexible system for rental, dry hire and sound companies

Rental/Dry hire: you can easily preset and adapt the system to the corresponding Tops, then lock it electronically and submit for rental with peace of mind that the system is fully protected when the hirer picks it up. After all the necessary connections are made, the sound should be perfect right from the outset. System-related faults are out of the question.

Rental companies: You can set up Xperience IV in no time at all and without requiring significant loading space. The 18" active Sub can be combined with the corresponding tops depending on the size of the venue. At larger venues with several active subwoofers, these can be linked together quickly and controlled from a notebook, giving you constant access to all the relevant sound parameters.

Delay-lines are easy to set up because of an integral room delay. The fully parametric 10-band EQ is remarkably effective and far superior to conventional 1/3-octave graphic EQs. Frequencies and filtering quality (Q factor) settings are infinitely variable so that you can tackle the most difficult of microphone set-ups with comparative ease. The XS-4 subwoofers can be used in combination with subs, even if there are no tops connected.



XT-4
multifunctional
Top, 12"/1.4" CD,
500 W

XT-33
multifunctional
Top, 12"/1" CD,
500 W

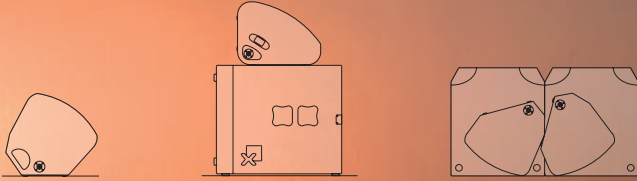
XT-2
multifunctional
Top, 10"/1" CD,
300 W

XT-1
multifunctional
Top, 6.5"/1" CD,
150 W

Active SUB XS-4
18" neodym speaker,
1,500 W, Class D amplifier,
integral Fohhn Fusion DSP.
Can be used with all
Fohhn-Tops.

Multifunctional use, front and monitor.

Extremely flexible.



RT-4

Monitor/Multifunctional
Top, 12"/2" CD, 450 W

XT-5

Multifunctional Top
15"/1.4" CD, 600 W

PT-7

Fully horn-loaded Top
2 x 12"/2" CD 1,000 W

Other Tops available on request

Monitor / Drum fill / Side fill: Xperience IV is the ideal system for drum and side fill applications on larger stages, can be set up in no time at all and does not require extra racks.

Dave Powles, sound engineer

I have never heard a compact PA system that sounds so good.

The Xperience IV system is great because you can set it up really quickly, it's very reliable and can be used for any number of applications. The audio quality is also top draw. The built-in DSP technology gives me access to all the most important audio equipment, like the equaliser, and takes the place of numerous external devices.

Another indispensable feature is the display on the XS-4, which makes operating the system so much easier. I can connect up also my notebook and operate the system from the mixer desk so that I can configure and save the best settings for speech production, live music or a DJ at the event and reload them when I need them.

For a system in the compact category, Xperience IV is equipped with exceptionally sophisticated, powerful technology that you would only normally associate with sound systems at large concerts.

Dave Powles is an internationally renowned sound engineer and worked with bands such as Genesis, Pink Floyd, and many others.

Info at: www.mix-with-the-best.com.



The centrepiece of the Xperience IV: the active XS-4 subwoofer

The active 18" XS-4 subwoofer weighs only 39 kg and is as lightweight as a standard 15" subwoofer. Compact dimensions, recessed handles and a detachable wheel board make transportation easy. The subwoofer is equipped with the following components:

Digital amplifiers, CLASS D, 1,500 W / 2x750 W / 4 ohms: cutting-edge technology, 95% efficiency, minimal heat build-up, outstanding impulse characteristics, transparent, powerful sound.

18" speaker: latest neodymium technology, exceptionally powerful, precise, rounded sound.

2 digital signal processors (FOHNN FUSION DSP): perfect sound at all levels, multi-band limiting for maximum operational reliability, presets for all speakers, room presets, individual presets, 5 integral audio devices, RS-485 interface for remote control via notebook.



High-quality wheel board included. Simple transportation. Excellent protection of the electronics.



Unbelievably lightweight: only 39 kg.

Clearly laid out controls with 4-line LCD display for rapid, intuitive input of the following parameters:

- > Stereo/Mono
- > Bass level
- > Input sensitivity (gain) for adapting to mixer desks
- > Speaker preset selection
- > Preconfigured room preset selection
- > Selection of presets configured by the user
- > Audio tool selection and processing: EQ, delay, limiter, compressor, noise gate
- > Keylock function (locks the display)
- > Temperature and operating time monitor

Signal/Clip LED
Lights up green when the input signal is present and red when the signal is too high.

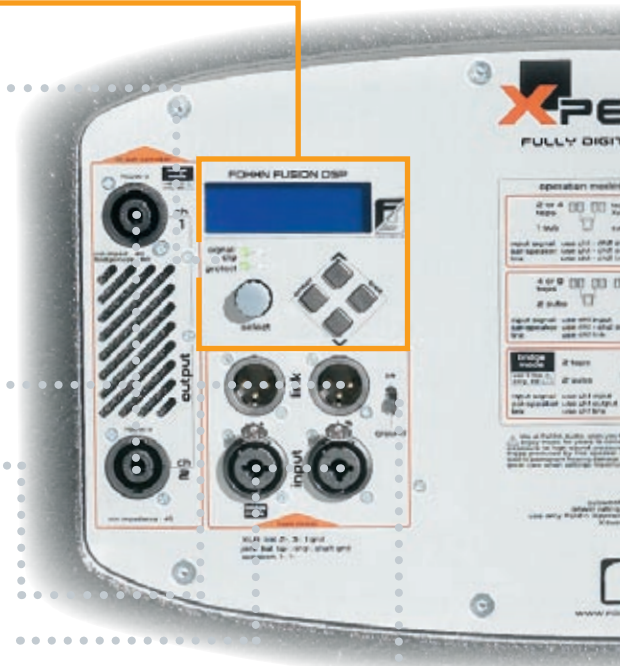
Protect LED
Lights up red when the protective circuits are activated after a short circuit, low impedance, excess current or amplifier temperature.

Output sockets
For connecting all Fohhn Tops

Link socket (XLR)
A constant input signal is available here and can be routed to other equipment

Input sockets
Sockets for mixers. Neutrik combi sockets for XLR connectors and jacks.

Ground/Lift
Provides suitable electrical isolation from other equipment.



Intelligent operation.

- **Aluminum back plate**
Recessed, for protecting the controls.
Cools the amplifier. Heat increase of only 14° due to extremely efficient digital amplifier.



RS-485 Interface (isolated)

Central remote control from the mixer desk via notebook. Can be controlled via multicore or microphone cable (max. 1,800m). Supports up to 255 systems in a network. Optional Fohhn FUSION.NET-USB cable set required. Operating software and updates downloaded for free at www.fohhn.com.

- **Power on/off switch**
Pressing the on/off switch starts the amplifier, the switched-mode power supply and the FOHNN FUSION DSPs in soft start mode. The speakers are activated after a delay.

- **Powercon sockets**
For lockable Powercon connectors, protects the system against accidental unplugging.

- **Temperature and speed-controlled fan**
Additional cooling only necessary when conditions for ventilation are unfavourable or ambient temperatures are extreme (e.g. direct sunshine). Eerily quiet. Switched off during normal operation.



There are three ways of operating the Xperience IV system:

Plug & Play: Plug in and get started – the Xperience IV is ready to use in just a few minutes without having to turn a single control knob. The system leaves the factory perfectly configured and produces a balanced, powerful sound right from the word go.

Individual sound at the press of a button: experienced sound engineers have already programmed the most important sound and room presets for you. All you have to do is select the right preset for your venue (marquee, hall, open air) and start with sound production.

Create your own sound: Xperience IV has a host of set-up options for you to produce your own unique sound. 5 top-quality audio devices enable you to configure your system and adapt it perfectly to the acoustics at the venue. You can save your settings as presets and load them again at any time.

Luca Maier, Soundcheck Editor, tested the Xperience at a live venue.

With the integral class D amplifier and FUSION DSPs, the SUB XS-4 weighs only 39 kg. Sensational when you think what the combined weight of an amplifier, controller, rack and subwoofer would be ... the complete system was set up and connected in ten minutes ... even without selecting a sound preset, the system produces a balanced, refined sound. Fine highs, harmonised mids, impressive speech intelligibility and a voluminous low end ... the flexibility of the Xperience is sure to impress sound companies, bands and DJs alike.

Issue 10/2005



Maximum flexibility and superior sound performance – the new Tops.

Multifunctional, lightweight and extremely versatile – the 3 new Tops:

XT-33, 12"/1" CD horn, powerful 1,75" driver

XT-4, 12"/1.4" CD horn, powerful 3.5" driver

XT-5, 15"/1.4" CD horn, powerful 3.5" driver

To make transportation as effortless as possible, we have equipped all new Tops with pioneering neodym technology. The neodym speakers are very lightweight, have a high power rating and are characterised by their exceptional dynamics and transparent sound. The speech intelligibility and range of the Tops are excellent.

The X-Tops are very flexible and efficient to use: in a system with active subwoofer XS-4, as a full range Top or a stage monitor. Each Top comes with an integral precision-made passive crossover with high-frequency protection so you can operate them with any professional amplifier. We also recommend our DSP amplifiers (e.g. D-2.750) for maximum sound performance and superb operational reliability.

The Tops are easy to install in flying applications with the optional u-bracket and can be secured by integral ring lugs. Even when a speaker stand is used, the retaining bracket makes sure the speaker is directed perfectly towards the audience, guaranteeing maximum sound quality.



Integral ring lock
for the safety chain



XT-33 multifunctional Top,
12"/1" CD, 500 W

XT-4 multifunctional Top,
12"/1.4" CD, 500 W

Multifunctional use, front and monitor,
4 Speakon sockets on the back and side

Superior sound quality.

Top-quality workmanship. Designed for tough daily use on the road, the housings are manufactured from quality multiply birch wood, watersealed glued, screwed, assembled and coated with a hard-wearing composite textured varnish. All Fohhn speaker systems are also available with a weatherproof plastic coating on request.

All Fohhn Tops can be combined with one another. We developed all our speaker systems in line with the same acoustical, electrical, mechanical and visual principles, allowing you to combine all Tops without a second thought.



Digital Fohhn DSP amplifier D-2.750.

Integral FOHNN FUSION DSPs. Technology identical to Xperience IV. Weighs only 9.8kg. 2 HE. 2x750 W on 4ohm / 1,500 W bridge. Remote operation possible. Network-compatible. Ideal for monitor and delay line applications.

XT-5 Monitor/multifunctional Top
15"/1.4" CD, 600 W



FOHNN FUSION DSP – The intelligence control centre.

FUSION DSP technology was designed in line with the Fohhn system concept – perfectly developed speakers combined with specially adapted amplifier and control technology. A PA system that enables you to work quickly, easily and reliably, produces exceptional sound results and gives you the opportunity to create your own individual sound concepts. 12 years of practical experience and adapting to special customer requirements have culminated into this future-oriented sound concept.

The Fohhn FUSION DSPs consist of 2 signal processors that operate independently of one another.

DSP 1 has a library of speaker data containing speaker protection data to ensure maximum operational reliability for virtually all Fohhn Tops. As a result, the entire frequency range is permanently monitored and processed separately by a sophisticated multiband limiter, guaranteeing a clear, balanced sound and excellent speech intelligibility at all levels. The preset can be changed quickly and easily at the press of a button.



Remote control via notebook

Controls as they appear on the screen.
Signal processing in real time.

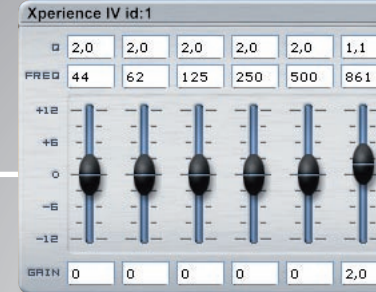
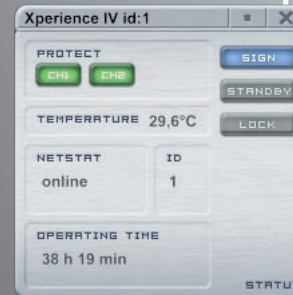
Preset module
Select sound presets
and speaker presets.



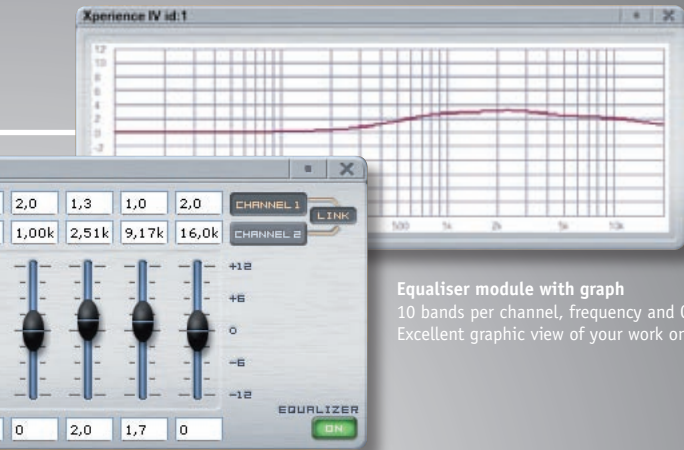
Main module
Individual audio devices
or presets are selected
at the click of a mouse
Adjustment of volume
level, channel on/off
and stereo/mono mode.



Status module
Displays the temperature and the
operating time. With lock function.
Signal function = display flashes
indicating that the device is detected.



Innovative technology.



Equaliser module with graph

10 bands per channel, frequency and Q factor selected as required. Excellent graphic view of your work on the EQ.



Dynamic module

System compressor, limiter and noise gate with all necessary setting options.

View of module on 4-line display of XS-4 subwoofer

```

> Filter Number 1 <
Gain 2.8 dB
Frequency 861 Hz
Q 1.1
    
```

Equalizer module

```

> Limit -9.9 <
Compress -18.2 dB
Ratio 2.8
Attack 28 ms
    
```

Dynamic module

```

> Time 116.58 ms <
Distance 18.88 m
    
```

Delay module



Delay module

For delaying the speaker system (DelayLine applications). Settings in milliseconds or metres.

DSP 2 has a programmable 10-band parametric EQ, delay, compressor, limiter and noise gate. These first-class audio devices will help you fulfill all your sound requirements. 10 preconfigured default presets such as hall, marquee, open air, DJ, etc. are also available for all typical applications. You can store your own sound concepts or settings adapted to the room acoustics in 90 programmable presets. The DSPs operate with precision and sound quality (56 bit filter depth) that is only usually expected from exclusive studio and concert sound systems.

The FOHNN FUSION DSPs allow you to remotely operate the Xperience system via a notebook, connect up several systems to a network and centrally control them as well as monitor the operating temperature.

Phil Beaumont, Forge Studios/Tour-Manager, England

In the last 20 years I have been working with international artists like Reamonn, Marillion, Marti Pellow, Francis Dunnery, Chris Difford etc.. For live gigs in clubs and mid-range venues I am using Fohhn Xperience Systems. The new Xperience IV system produces a stunning sound with pristine clarity and natural vocals. It is so easy to use and the setting up is very quick. Congratulations to Fohhn for developing this superb system.



Designed and build to last

Uncompromising quality. Made by Fohhn.

We have been successfully manufacturing extremely high-quality speaker systems for more than 12 years – Made in Germany. There is only one thing we demand of our workmanship: Perfection. We are only satisfied when all components are correctly in place and each individual screw is sitting snugly.

A combination of state-of-the-art CNC production, perfect handwork and our passionate affiliation to the product are simply irreplaceable. We do not manufacture low-cost or mass-produced goods, but exclusive, extremely durable products that are designed and built to last. Extensive measuring and assurance procedures guarantee the consistent high quality standard of our products. Our highly motivated and trained staff carry out strict electronic, acoustic and visual quality checks on each individual speaker.

Active-SUB XS-4

Amplifier output	1,500 W / 2x750W / 4 ohm
Components	1 x 18" long excursion, neodym
SPL max.	132 dB
Frequency response	35 Hz – 500 Hz
Acoustic design	Direct dispersion + black-loaded resonator
Dimensions (WxHxD)	59 x 60 x 68 cm
Weight	39 kg
Housing	Multiply birchwood
Colour	Black, texture varnish
Special colours	all RAL colours, optional
Weatherproof plastic coating	Black, optional
Protective grille	Metal with acoustic foam
Wheel board (rear)	Multiply birchwood, four wheels
Transport cover (front)	Multiply birchwood, optional
Handles (recessed)	4 on the side
Threaded base plate	M20, for pole

Sockets

Input/Output signal connectors	2x XLR/jack combi input socket 2x XLR link sockets
Speaker output connectors	2x NL4 Neutrik Speakon f. Top Speaker from 130 Hz 2x4 Ω (stereo) or 1x8 Ω (bridge mode)
Mains power	2x Powercon network socket in and thru

Digital amplifier (integrated in Active-SUB XS-4)

EIA output power Tops	2 x 750 W* (1 kHz, THD+N < 1%)
Bridge mode	1,500 W
Amplification	32 dB
Input sensitivity	0 dB V
Input impedance	10 kOhm
Frequency response	20 Hz – 20 kHz
S/N ratio	>105 dBA
Slew rate	40 V/ms
Protective circuit	Soft start, impedance and short-circuit protection, DC protect, temperature monitoring
Power supply	195 V – 250 V AC 50/60 Hz
Cooling	Convection cooling, forced cooling by temperature-controlled fan, if required
Weight	approx. 1.8 kg, power supply and amplifier

* 4 Ω / 130 Hz / high pass filter 6 dB / Oct.

Operation

Controls	<ul style="list-style-type: none"> • Select Control • 4-button input field • Ground/Lift switch • Power on/off switch
Anzeigen	<ul style="list-style-type: none"> • 4-line LCD display • 2x signal/clip LED • 2x run/protect LED • Receive/Send remote control LED

Fohhn Tops	XT-33	XT-4	XT-5
Power rating	500 W/900 W**	500 W/900 W**	600 W/1200 W**
Components	12"/1" CD fully neodym	12"/1.4" CD fully neodym	15"/1.4" CD fully neodym
Sensitivity	99 dB	100 dB	100 dB
SPL max.	130 dB	131 dB	132 dB
Frequency response	55 Hz – 20 kHz	55 Hz – 20 kHz	45 Hz – 20 kHz
Dispersion H x V (-6 dB)	90° x 60°	80° x 50°	80° x 50°
Impedance	8 ohms	8 ohms	8 ohms
Dimensions (WxHxD)	38 x 59 x 39 cm	38 x 59 x 39 cm	46 x 70 x 48 cm
Weight	19 kg	21 kg	27 kg
Housing	Multiply birchwood	Multiply birchwood	Multiply birchwood
Colour	Black	Black	Black
Special colours	all RAL colours, optional	all RAL colours, optional	all RAL colours, optional
Weatherproof plastic coating	Black, optional	Black, optional	Black, optional
Protective grille	Metal with acoustic foam	Metal with acoustic foam	Metal with acoustic foam
Connectors	4x NL4 Neutrik Speakon	4x NL4 Neutrik Speakon	4x NL4 Neutrik Speakon
Handles (recessed)	2 side handles	2 side handles	1 rear handle, 2 side handles
Monitor angle	55°	55°	45°
Speakerpole	integrated, dia. 36 mm	integrated, dia. 36 mm	integrated, dia. 36 mm
Flying safety lugs	integrated	integrated	integrated
2x side M8 threaded inserts	for bracket VXT-3	for bracket VXT-3	for bracket VXT-5

**peak, 20 ms

FOHNN FUSION DSP (integrated in active SUB XS-4)

Controller	<ul style="list-style-type: none"> • 2 digital stereo signal processors • 8 independent limiters • Selective 3-band limiting (bass/mid/high) • Band-specific time constants • 56-bit double precision filtering technology • AD/DA 24 bit/48 kHz
Presets	<ul style="list-style-type: none"> • 10 fixed preconfigured presets • 90 programmable presets • Speaker presets for all Fohhn Tops
Digital audio devices	<ul style="list-style-type: none"> • Fully parametric 2x 10-band-EQ • Compressor / Limiter • Noise gate • Delay

As our valuable customer, you are just as important to us after purchasing a Fohhn product as before.

Our products are extremely reliable and rarely require servicing. However, should your product develop a fault, we will do our very best to deliver replacement parts as quickly and reliably as possible anywhere in Europe.

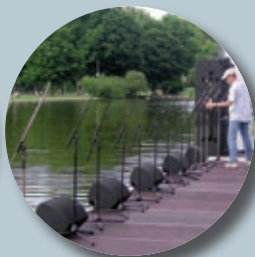
Our friendly, competent team will be glad to advise you on any of the Fohhn systems via telephone or e-mail.

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Feel free to contact us.

German Quality.

■ German quality
■ engineered and made
■ by Fohhn®



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*Tastenwelt 6/05