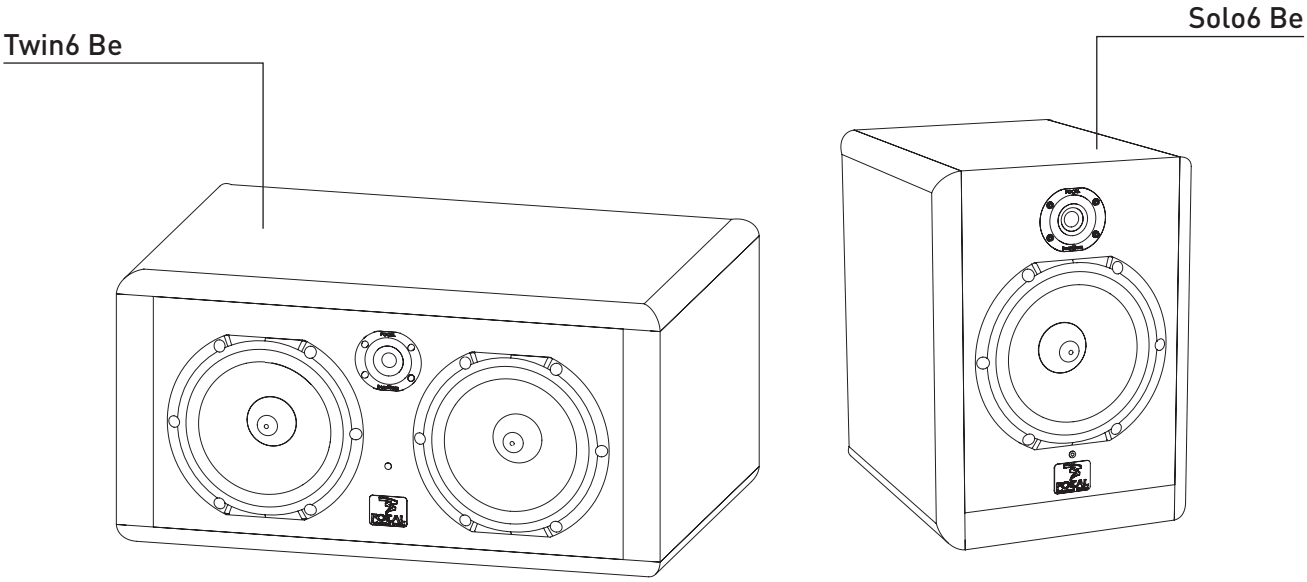
SOLO6 BE - TWIN6 BE

Professional Analog Monitoring System

User manual



Chinese 第 10 页

FOCAL®
PROFESSIONAL

An example of this equipment has been tested and found to comply with the following European directives and international standards:

Electromagnetic compatibility
EN 55103
EN 61000

Electrical safety
EN 60065

Important safety information
Please read carefully the following instructions and safety information. Heed all warnings and follow all instructions.
- Do not remove the back panel. There are no user serviceable parts inside; please refer to qualified service personnel. This equipment must be earthed.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Servicing is required when the unit has been damaged in any way, such as power cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not place naked flame sources, such as lighted candles, on the apparatus.
- Use the apparatus only in moderate climates (not in tropical climates).
- Do not expose the apparatus to dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the apparatus.



CAUTION!
RISK OF ELECTRIC SHOCK
DO NOT OPEN
DO NOT EXPOSE TO RAIN OR MOISTURE

The Solo6 Be and Twin6 Be use a tweeter equipped with a Beryllium dome, allowing a frequency range extending beyond 40kHz. In its solid form, Beryllium is harmless. However, due to its nature, certain special precautions should be observed to avoid exposure to unnecessary risk:
- Under no circumstances should the Beryllium dome be subjected to any form of abrasive action. To ensure no accidental damage to the tweeter dome it is advised to carefully replace the protection covers while not in use.
- In the unlikely case of damage to the dome, of any form, a wide piece of adhesive tape should be immediately used to seal the whole front surface of the tweeter. The protective cover should then be replaced and also taped securely in place. You should then inform the dealer from whom you purchased the product so that the tweeter can be removed by a professional and returned to the product distributor for replacement.
- If the dome is broken in any way giving rise to loose particles of Beryllium, these should be carefully collected with the use of an adhesive tape and sealed in a zip-top bag to be returned with the tweeter.

For further information, please contact Focal-JMlab directly: beryllium@focal.com

Under non tropical climate 

Altitude ⩽ 2000 m 

Thank you for choosing the FOCAL Solo6 Be and/or Twin6 Be. The Solo6 and the Twin6 Be are world class Professional Monitoring Systems. They have been designed to offer superior imaging, outstanding precision and extended frequency range, in a compact format suitable for near field monitoring.

Unpacking

In addition to one loudspeaker and a user manual (such as this one), each Solo6 or Twin6 carton should contain:

- A power cord.
- A guarantee card.
- A protection grille for the Beryllium tweeter (you are advised to remove it before listening to the speakers).
- A plastic bag containing an information note "Beryllium inverted dome tweeter", and some adhesive tape to affix on the tweeter in the unlikely event of the dome being damaged.

Please check that none of these items are missing, and remove all accessories from the carton.

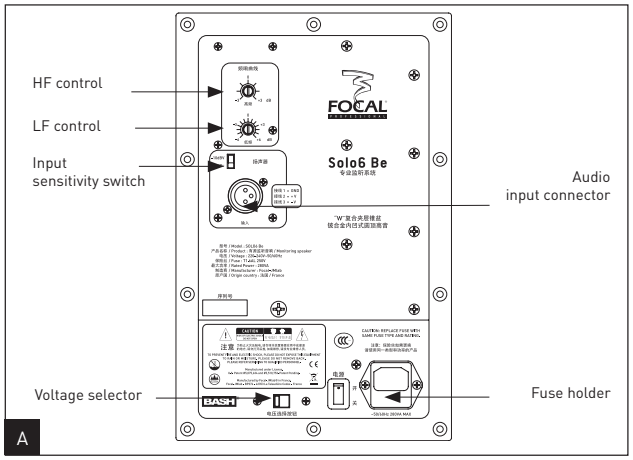
To remove the loudspeaker from its carton without damage, open the end flaps fully and bend them right back. Then remove the upper cushion and lift the loudspeaker out gently. Inspect the speaker for signs of any possible damage. In the unlikely event of this having occurred please inform the carrier and supplier. It is a good practice to keep the packaging in case of future transportation.

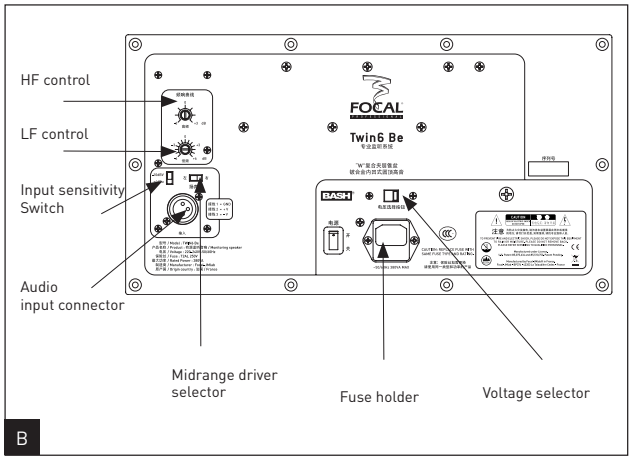
Preliminary recommendations

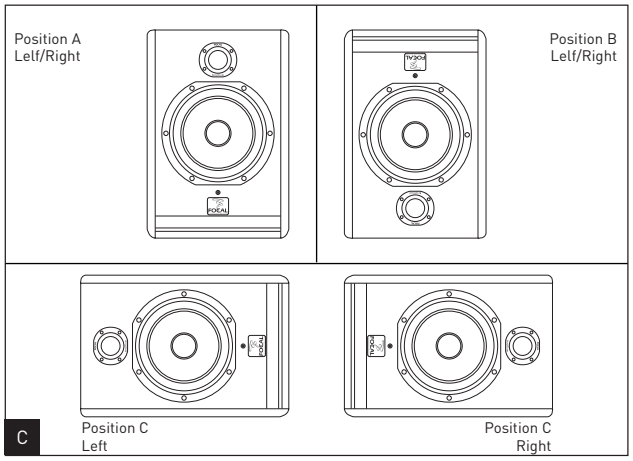
We would like to give a word of warning about the high sound pressure levels that can be generated by these loudspeakers, especially in a 5.1 configuration. Because of their low levels of distortion, and the minimal fatigue incurred by the user, it is not always obvious to realise the actual sound pressure level while working.
Please bear in mind that exposure to excessive levels over a sustained period of time may lead to permanent hearing loss.

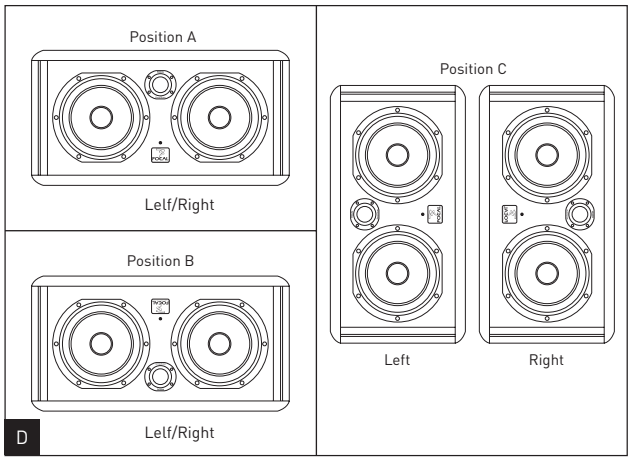
Warranty

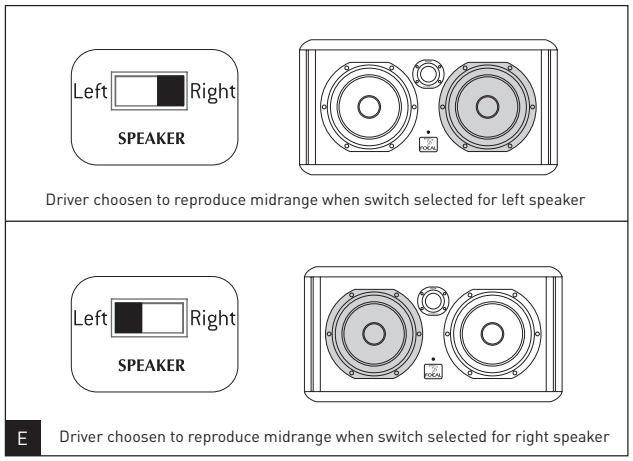
These products are guaranteed against defects in components and workmanship only, for a period of two years from the date of shipment to the end user for countries of the European Union. For other countries, please refer to the law in effect.
During the warranty period Focal will, at their discretion, either repair or replace products which prove to be defective, provided that the product is returned, shipping prepaid, to an authorised Focal service facility.
Defects caused by unauthorised modifications, accident, negligence or any misuse are not covered by this warranty.
For further information please contact your dealer or the distributor in your country.

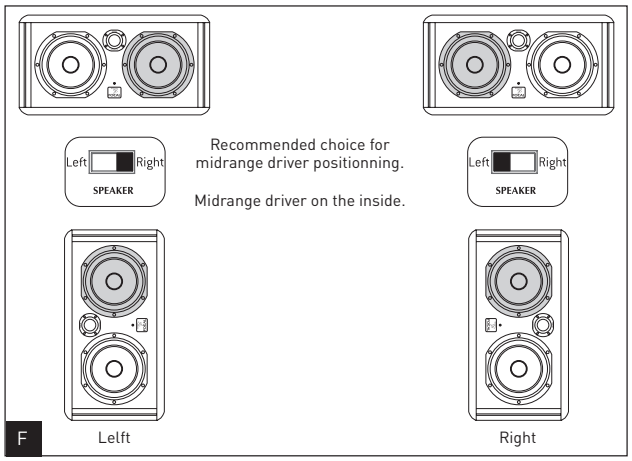

HF control
LF control
Input sensitivity switch
Audio input connector
Voltage selector
Fuse holder
A


HF control
LF control
Input sensitivity Switch
Audio input connector
Midrange driver selector
Fuse holder
Voltage selector
B


Position A
Lelf/Right
Position B
Lelf/Right
Position C
Left
Position C
Right
C


Position A
Lelf/Right
Position B
Lelf/Right
Position C
Left
Right
D


Left
Right
SPEAKER
Driver choosen to reproduce midrange when switch selected for left speaker
Left
Right
SPEAKER
E
Driver choosen to reproduce midrange when switch selected for right speaker


Left
Right
SPEAKER
Recommended choice for midrange driver positionning.
Midrange driver on the inside.
Left
Right
SPEAKER
Lelft
Right
F

Solo6 Be
The Solo6 Be is a two-way active loudspeaker (2 internal amplifiers channels), comprising one "W" cone 6.5" low/mid unit, loaded with a large cross-section laminar port, and an inverted pure Beryllium dome ***(fig. A)***.

Twin6 Be
The Twin6 Be is a three-way active loudspeaker (3 internal amplifiers channels), comprising two "W" cone 6.5" low/mid units, loaded with two large cross-section laminar ports, and an inverted pure Beryllium dome. The two 6.5" drive units operate at low frequencies but only one of them (either can be selected) will reproduce the midrange ***(fig. B)***.

Installing

Mains voltage
After having unpacked the unit, first check that the operating voltage is correctly set (see location on rear panel). If it is not, adjust the selector to the appropriate position. Also check and if necessary replace the fuse, which rating depends on the operating voltage (please refer to technical specifications).

The Solo6 and Twin6 must be earthed using the power cord supplied.

Audio connections: general
The audio signal is to connect to the XLR inlet. This is a balanced input, which use the standard cabling scheme, namely:

Pin 1 = Ground (shield)
Pin 2 = In phase voltage ("hot")
Pin 3 = Out-of-phase voltage ("cold")

If the audio source is unbalanced, common practice is to link "cold" and ground pins (pins 3 and 1 respectively). This is generally achieved within the cable.

Positioning

The Solo6 Be and Twin6 Be are designed for near field monitoring and should be placed at a distance between 1 and 3 metres from the listener, pointing towards the listening position. They can be sitting on the console top or placed on appropriate stands. In any way it is recommended that the tweeter is at a height from the floor approximately equivalent to that of the listener's ears. If required it can make sense to place the speakers upside down so that the previous rule is better fulfilled ***(fig. C,D)***.

The Solo6 Be could be used vertically or horizontally depending on the environment, preferably pointing towards the listener ***(fig. C)***.

By design the Twin6 Be's are rather intended for a landcape orientation, though in some situations they could be positioned vertically. As seen in the earlier rear panel description, the Twin6 Be has a switch allowing to choose which drive unit is to reproduce the mid frequencies (see below) ***(fig. E)***. Consequently it will always be possible, as desirable, to configure the speakers in a "mirror" (ie symetrical) way ***(fig. F)***. As a general rule having the "midrange" driver on the inside of the cabinet results in better imaging.

Running in
As in all brand new loudspeaker the drivers need some run in period: they are mechanical elements demanding a little time to settle and adapt to the climatic environment. This period will vary depending of the working conditions and may take up to a few weeks. Avoid pushing the speakers very hard during their first hours of use, but to accelerate the run-in process it is good practice to operate the speakers at moderate levels for 20 hours or so, with programmes having significant low frequency content. Only once the transducers have come to stabilize will you get the optimum performance.

Solo6 Be/Twin6 Be Controls

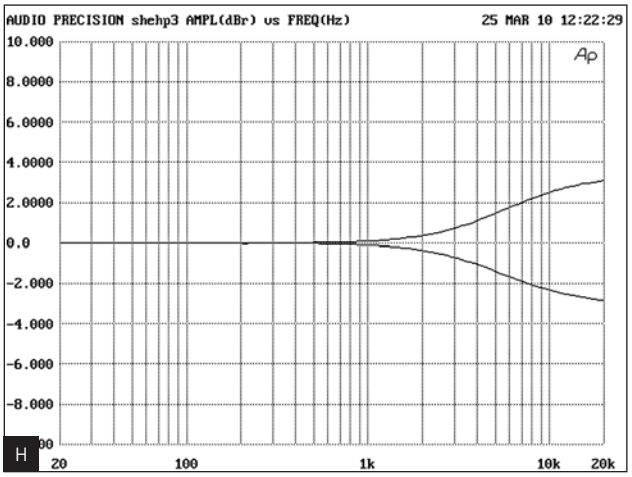
Speaker switch (Left/Right) : only for Twin6 Be
This switch allows the user to select which one of the two 6.5" drivers will reproduce the midrange. By convention, the "Right" position of the switch will select the left hand side driver (when facing the cabinet laying horizontally). Conversely in the "Left" position the right hand side driver (facing the cabinet) will be the one operating in the mid frequencies. It is easy to figure how useful this control is when it comes to get the best possible imaging in any cabinet layout ***(fig. E,F)***.

Input switch
The input sensitivity can be adjusted using this two position switch. The +4dBu position is suitable for standard professional audio equipment, while -10dBV position may be used for other types of sources providing a lesser output level.

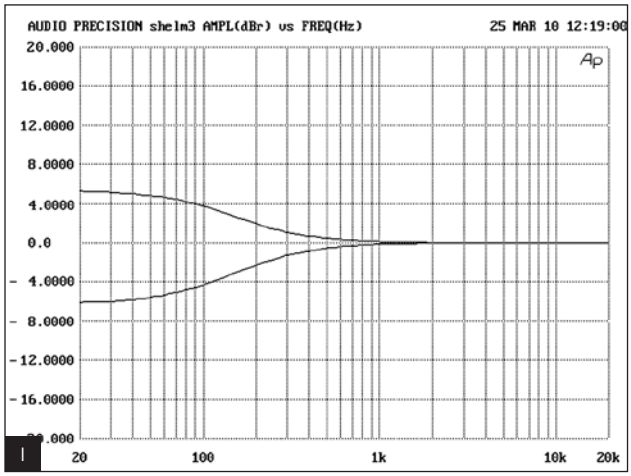
HF contour
This control allows for a continuous adjustement of the high frequency level; it operates above 5kHz within a ±3dB range ***(fig. H)***.

LF contour
This control allows for a continuous adjustement of the low frequency level; it operates below 150Hz within a ±6dB range ***(fig. I)***. This adjustement is typically useful to deal with possible excessive level of LF energy resulting from acoustic coupling associated with close reflecting surfaces: mixing console, nearby walls...

Power on indicator
A power on LED is located on the cabinet front panel, near the Focal logo.



H



I

SOLO6 BE: TECHNICAL SPECIFICATIONS

SYSTEM

Frequency response		40Hz - 40kHz
Maximum SPL		113dB SPL (peak @ 1m)

ELECTRONIC SECTION

Input	Type/Impedance Connector Sensitivity	Electronically balanced / 10 kOhms XLR Adjustable, +4dBu ou -10dBV
LF amplifier stage **HF amplifier stage**		150W rms, BASH® technology 100W rms, class AB
Power supply	Main Voltage Connection	230V (1.6A fuse rating) 115V (3.15A fuse rating) IEC inlet and detachable power cord
User controls		Input level switch LF and HF contours (potentiometers) Power ON/OFF switch, mains voltage selector
Indicator		Power on LED

TRANSDUCERS

Woofer		"W" cone, Focal 6W4370B 6.5" drive unit
High frequency		Focal TB871 inverted Beryllium dome tweeter
Shielding		Integral through concellation magnets or by magnet design

CABINET

Construction		19mm MDF panels with internal braces
Finish		Real red veneer on sides
Dimensions (HxWxD)		330mm x 240mm x 290mm - (13"x9.5"x11.4")
Weight		11kg - (24.2lb)

All specifications are subject to change.

TWIN6 BE: TECHNICAL SPECIFICATIONS

SYSTEM

Frequency response		40Hz - 40kHz
Maximum SPL		115dB SPL (peak @ 1m)

ELECTRONIC SECTION

Input	Type/Impedance Connector Sensitivity	Electronically balanced / 10 kOhms XLR Adjustable, +4dBu ou -10dBV
LF amplifier stage **LF/MF amplifier stage** **HF amplifier stage**		150W rms, BASH® technology 150W rms, BASH® technology 100W rms, class AB
Power supply	Main Voltage Connection	230V (2A fuse rating) 115V (4A fuse rating) IEC inlet and detachable power cord
User controls		Input level switch Speaker (left/right) switch LF and HF contours (potentiometers) Power ON/OFF switch, mains voltage selector
Indicator		Power on LED

TRANSDUCERS

Woofer	2 x "W" cone, Focal 6W4370B 6.5" drive unit
High frequency	Focal TB871 inverted Beryllium dome tweeter
Shielding	Integral through concellation magnets or by magnet design

CABINET

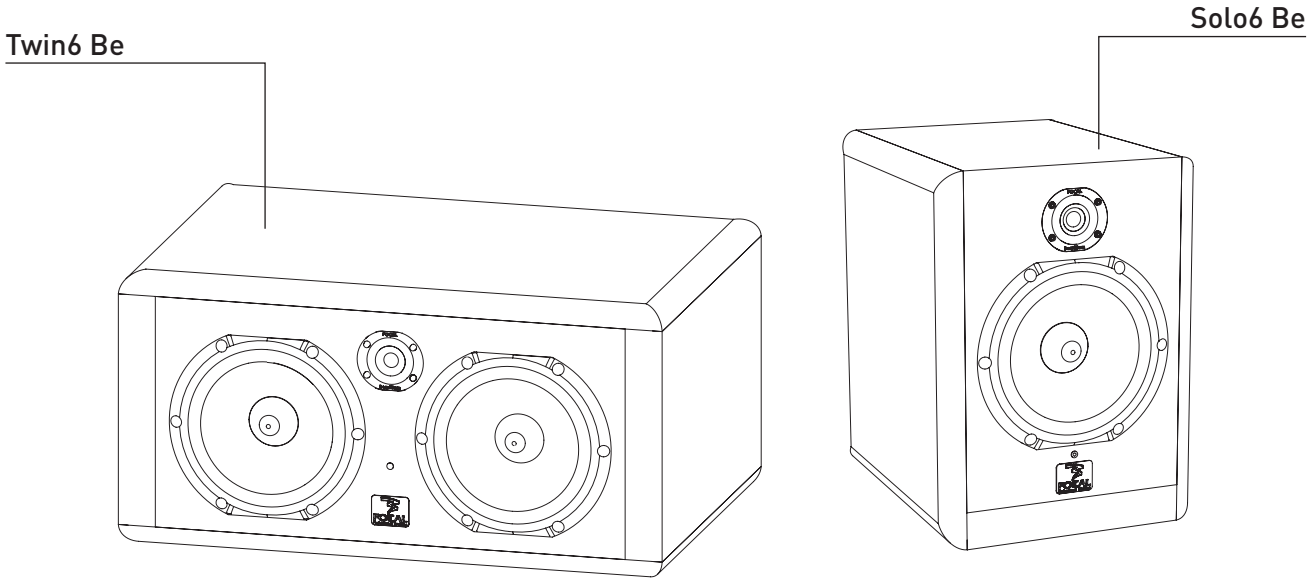
Construction	19mm MDF panels with internal braces
Finish	Real red veneer on sides
Dimensions (HxWxD)	250mm x 500mm x 340mm - (9.8" x 19.7"x 13.4")
Weight	14kg - (30.8lb)

All specifications are subject to change.

SOLO6 BE - TWIN6 BE

专业模拟监控系统

用户手册 / User manual



FOCAL®
PROFESSIONAL

本设备的样机经测试，符合以下欧洲指令及国际标准：

电磁兼容性
EN 55103
EN 61000

电气安全
EN 60065

重要安全信息
请仔细阅读以下说明和安全信息。注意所有的警告，并遵照所有的说明操作。
- 不要取下后面板。内部无用户可维修的部件；请咨询合格的维修人员。本设备必须接地。
- 务必保护插头、插座和设备出口处的电源线免受踩踏或挤压
- 只使用制造商指定的附件/配件。
- 设备任何形式的损坏，如电源线或插头损坏、液体或异物进入设备、遭受淋雨或受潮、跌落损坏，或者不能正常工作时，请联系专业售后维修人员。
- 仅在适宜的气候（而非热带气候）中使用设备。
- 设备勿暴露在滴水或溅水处。
- 请勿在设备上放置装满液体的物体，如花瓶。



注意！
小心触电！
请勿打开
请勿淋雨或受潮

Solo6 Be 和 Twin6 Be 采用配有铍球顶的高音单元，频率范围可达40千赫兹以上。固体铍无害，然而由于其性质，应遵守某些特定的预防措施以避免暴露，造成不必要的风险：
- 在任何情况下，铍球顶都不要受到任何形式的磨蚀作用。为了确保不对高音单元球顶造成意外损坏，建议在不使用时小心更换保护罩。
- 无论球顶发生任何形式的损坏，请务必立即用宽胶带封住高音单元的整个表面。保持胶带密封良好的情况下，通知产品经销商并由专业人员拆下高音单元，退回分销商对防护罩进行更换。
- 如果球顶出现任何损坏，造成铍颗粒脱落，应用胶带小心收集并装在顶部有拉链的袋中密封，随高音单元一起退回。

如需进一步的信息，请直接联系 Focal-JMlab：beryllium@focal.com

适用于非热带地区；



适用于海拔低于2000米的地区。



感谢您选择 *FOCAL Solo6 Be* 或 *Twin6 Be*。
Solo6、*Twin6 Be* 和 是世界一流的专业监听系统。
其结构紧凑，旨在提供卓越的成像、出色的精度和扩展的频率范围，适合近场监听。

拆开包装

除一个扬声器和用户手册（如本手册）外，Solo6 或 Twin6 包装箱内均应包含：

- 保修卡。
- 电源线
- 铍高音单元的保护面网（建议在播放扬声器之前将其取下）。
- 塑料袋中装有“铍倒置球顶高音单元”的信息说明单，以及万一球顶受损时用于贴到高音单元上的胶带。

请检查这些物件无一缺失，然后从纸箱中取出所有配件。

要从包装箱中毫无损坏地取出扬声器，完全打开箱盖并向右后侧弯曲。然后取出上面的保护垫并轻轻提出扬声器。检查扬声器是否存在任何损坏迹象。万一有损坏，请告知承运商和供应商。好的做法是保留包装，以备将来运送。

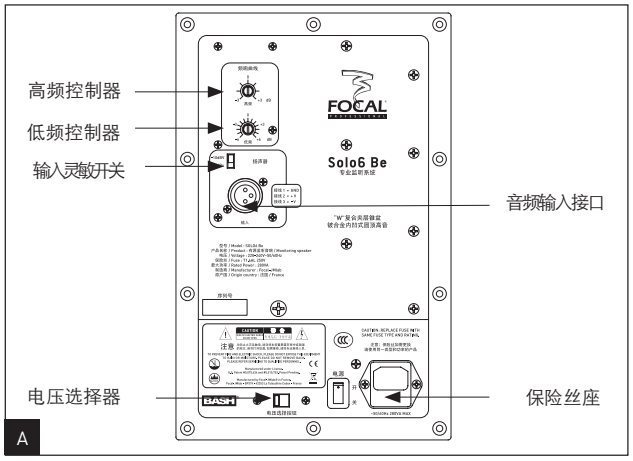
预先建议

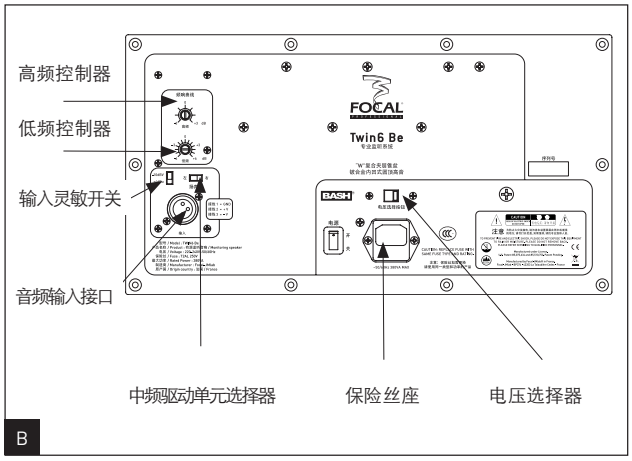
请警惕扬声器工作时产生的声压等级，尤其在使用5.1配置时须特别注意。因声音失真程度低，对使用者产生的疲劳度很小，可能会使人忽视设备工作时的实际声压级。
请记住，长时间持续暴露于过高声压环境下可能导致听力永久丧失。

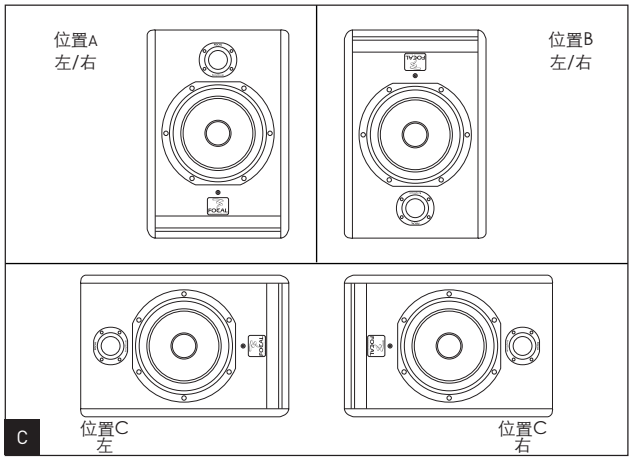
保修

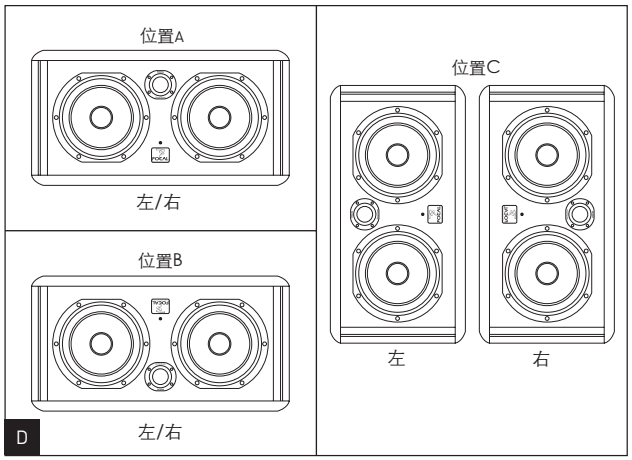
本产品对欧盟各国最终用户的组件缺陷和工艺保证期限仅适用于自发货之日起两年内。对于其他国家，请参阅生效的法律规定。
在保修期内，本产品需以预付费寄至Focal授权维修点，对缺陷产品进行维修还是更换将由Focal 自行决定。

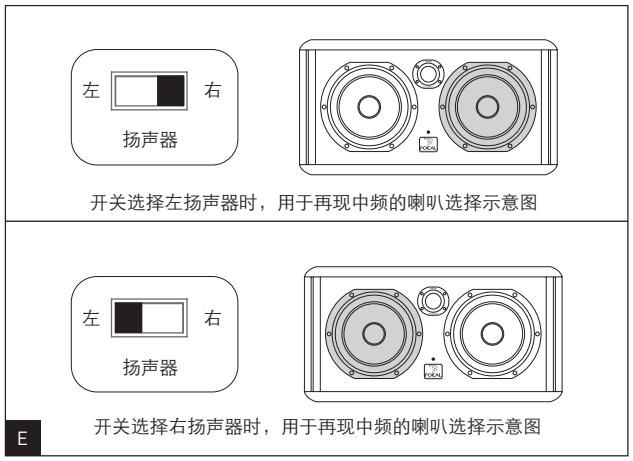
擅自修改、意外、疏忽或不当使用造成故障的，不在保修范围之内。
如需更多信息，请联系您所在国的经销商或分销商。

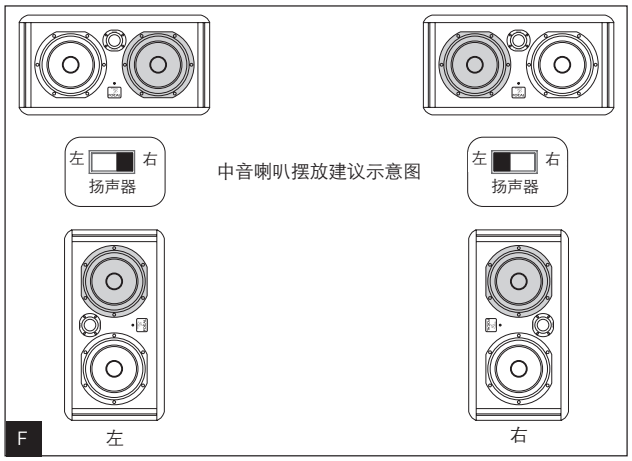

高频控制器
低频控制器
输入灵敏开关
音频输入接口
电压选择器
保险丝座
Solo6 Be
专业监听系统
FOCAL
BASH
A


高频控制器
低频控制器
输入灵敏开关
音频输入接口
Twin6 Be
专业监听系统
FOCAL
BASH
中频驱动单元选择器
保险丝座
电压选择器
B


位置A
左/右
位置B
左/右
位置C
左
位置C
右
C


位置A
左/右
位置B
左/右
位置C
左
右
D


左
右
扬声器
开关选择左扬声器时，用于再现中频的喇叭选择示意图
左
右
扬声器
开关选择右扬声器时，用于再现中频的喇叭选择示意图
E


左
右
扬声器
中音喇叭摆放建议示意图
左
右
扬声器
左
右
F

Solo6 Be
Solo6 Be 为双声道有源音箱（2 个内部放大器声道），由一个“W”形锥体 6.5”低音/中音单元组成，装有大截面层式端口和倒置纯铍球顶（图 *A*）。

Twin6 Be
Twin6 Be 为三声道有源音箱（3 个内部放大器声道），由两个“W”形锥体 6.5”低音/中音单元组成，装有两个大截面层式端口和倒置纯铍球顶。两个 6.5” 驱动单元在低频下运行，但仅其中一个（可选择）将再现中频（图 *B*）。

安装

电源电压
拆开设备的包装后，首先检查工作电压是否正确设置（见后面板位置）。如果不正常，将选择器调整到适当的位置。还要检查保险丝，必要时更换，其额定值取决于工作电压（请参考技术规范）。

Solo6 和 Twin6 须用随附的电源线接地。

音频连接：一般情况
音频信号连接至 XLR 插入端。这是平衡输入，它使用标准的布线方案，即：

引脚 1 = 接地（屏蔽）
引脚 2 = 同相电压（“热”）
引脚 3 = 异相电压（“冷”）

如果音频源不平衡，通常的做法是链接“冷”并将引脚（引脚 3 和 1 分别）接地。
这通常在电缆内实现。

摆放位置

Solo6 Be 和 Twin6 Be 是为近场监听而设计，应放置在距听者 1 米至 3 米之间，指向收听位置。可以置于控制台顶部或放在适当的支架上。总之，建议将高音单元距地面的高度调整到与听者耳朵距地面的高度大致相等。如有需要，可有意将扬声器倒置，从而更好地满足之前的规则（图 ***C***、***D***）。

Solo6 Be 可根据环境竖放或横放，最好能指向听者（图 ***C***）。

虽然在某些情况下，Twin6 Be 可以竖放，但其设计却更适合横放。如前面的后面板描述中所示，Twin6 Be 有一个可选择哪个驱动单元来再现中频的开关（见下文）（图 ***E***）。因此如其所述，总是能以“镜像”（即对称）方式配置扬声器（图 ***F***）。作为一般规则，箱体内有“中频”驱动单元可使成像更佳。

磨合过程
像所有全新的扬声器一样，驱动单元也需要运行一段时间：机械元件需要一些时间来适应气候环境，这一时期会因工作条件而异，可能需要长达几个星期。避免在使用的最初几个小时内非常剧烈地调试扬声器，但为了加速磨合过程，好的做法是以适度条件运行扬声器 20 个小时左右，播放有明显低频内容的节目。只有当传感器稳定下来，性能才能达到最佳状态。

Solo6 Be/Twin6 Be 控制器

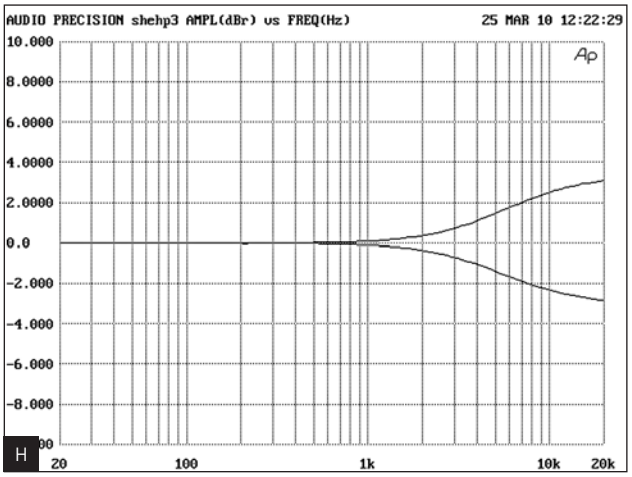
扬声器开关（左/右）：仅适用于 Twin6 Be
此开关允许用户选择两个 6.5" 驱动器中的一个来再现中频。按照惯例，开关的“右”位置将选择左手侧驱动器（面向横放的箱体时）。相反地，在“左”位置，右手侧驱动器（面向箱体）将播放中频。当它逐渐获得任意箱体布局的最佳成像时（图 *E*、*F*）时，很容易弄清楚此控制器是多少有用。

输入开关
输入灵敏度可通过双开关调节。+4dBu 位置适合标准专业音频设备，而-10dBu适合其他提供较小输出的音源

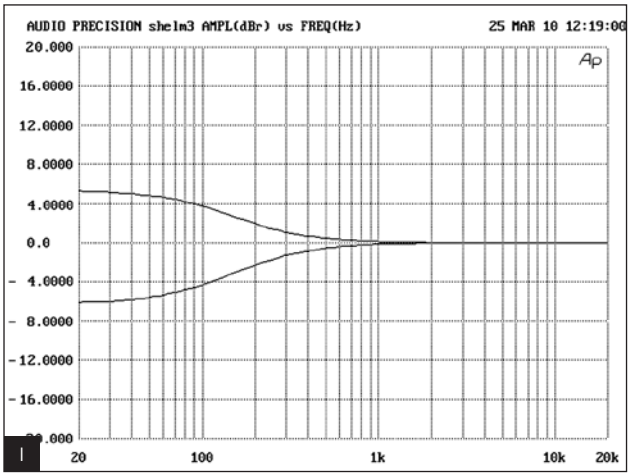
高频控制
此控制器可连续调节高频等级，可在±3分贝范围内达到高于5千赫兹的频率。（图H）

低频控制
此控制器可连续调节低频等级，可在±6分贝范围内达到低于150赫兹的频率。（图I）
对由于过近反射面（如混频控制台、附近的墙壁等等）产生的声耦合导致过高低频能量的情况，此控制器通常可以做到较好的控制。

指示灯电源
LED 灯电源位于箱体前面板，靠近 Focal 标志。



H



I

SOLO6 BE：技术规格

系统

频率响应		40 赫兹 - 40 千赫
最大声压级		113 分贝声压级（1 米时的峰值）

电子部分

输入端	类型/阻抗 接口 灵敏度	电子平衡/ 10 欧姆 XLR 可调节，+4 伏特分贝或 -10 伏特分贝
低频放大级 高频放大级		150 瓦额定输出功率，BASH® 技术 100 瓦额定输出功率，AB 类
电源	主电压 连接	230 伏（1.6 安保险丝额定值） 115 伏（3.15 安保险丝额定值） IEC 插口和可拆卸电源线
用户控制器		输入电平开关 低频和高频轮廓（电位器） 电源 ON/OFF 开关，电源电压选择器
指示灯		LED 电源

转换器

低音单元		"W" 形锥体，Focal 6W4370B 6.5" 驱动单元
高频		Focal TB871 倒置铍球顶高音单元
屏蔽		通过消磁或磁铁设计而集成

箱体

结构		带内支架的 19 毫米中纤板
磨光		侧面使用红色真木皮镶面
尺寸（高x宽x深）		330 毫米 x 240 毫米 x 290 毫米 - (13"x9.5"x11.4")
重量		11 千克 -（24.2 磅）

所有规格如有变更，恕不通知。

系统

频率响应		40 赫兹 - 40 千赫
最大声压级		115 分贝声压级（1 米时的峰值）

电子部分

输入端	类型/阻抗 接口 灵敏度	电子平衡/ 10 欧姆 XLR 可调节，+4 伏特分贝或 -10 伏特分贝
低频放大级 低频/中频放大级 高频放大级		150 瓦额定输出功率，BASH® 技术 150 瓦额定输出功率，BASH® 技术 100 瓦额定输出功率，AB 类
电源	主电压 连接	230 伏（2 安保险丝额定值） 115 伏（4 安保险丝额定值） IEC 插口和可拆卸电源线
用户控制器		输入电平开关 扬声器（左/右）开关 低频和高频控制器（电位器） 电源 ON/OFF 开关，电源电压选择器
指示灯		LED 电源

转换器

低音单元		2 个“W”形锥体，Focal 6W4370B 6.5" 驱动单元
高频		Focal TB871 倒置铍球顶高音单元
屏蔽		通过消磁或磁铁设计而集成

箱体

结构		带内支架的 19 毫米中纤板
磨光		侧面采用真正的红色镶面板
尺寸（高x宽x深）		侧面使用红色真木皮镶面 米 - (9.8" x 19.7"x 13.4")
重量		14 千克 -（30.8 磅）

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