EasyPort

FP-22 modular

FP-22 passive

Please read this manual carefully before operating the equipment and store this manual.

Important safety instructions

Read these safety instructions prior to operating the unit. Keep these safety instructions in a safe place.

⚠ The lightning symbol inside a triangle draws the user´s attention to an uninsulated "dangerous voltage" on the inside of the unit, which is sufficiently powerful to cause injuries by electric shock.

⚡ The exclamation mark inside a triangle draws the user´s attention to important instructions (safety instructions, maintenance, service) within the operating manual.

CAUTION
⚡ RISK OF ELECTRIC SHOCK ⚠
DO NOT OPEN

Caution: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified personnel.

Instructions regarding fire hazards, risk of electric shock and personal injury.

WARNING - The following safety instructions should be observed without fail each time the unit is operated.

Setup and position of the unit

• To reduce the risk of injury, extra care should be taken if the unit is operated near children
• Make sure that speakers are stable, especially when mounted on stands. Never position speakers on an uneven or unstable surface.
• Do not operate this unit near water (e.g. wash basins, swimming pools, very damp ground)
• Keep the unit away from water, dust, places subject to long periods of intensive sunshine and vibrations
• Avoid setting up the unit near ovens, heaters or other heat-generating devices or exposing it to extremely low temperatures
• When setting up the unit, make sure that ventilation is adequate
• Make sure that the unit cannot tip over or fall down and that fluids cannot enter the unit through the ventilation slits.

Operation

• **Never exceed the total minimum load impedance of 8 ohms. You may only connect an 8-ohm speaker to the unit. It is forbidden to connect a 4-ohm speaker**
• When used in combination with headphones or an amplifier, this unit is capable of producing volumes that may cause permanent damage to hearing. Do not expose your ears to loud and potentially painful sounds for longer periods. If you feel that your hearing is impaired or begin to hear whistling sounds, consult a doctor.
• During operation, speakers may be damaged by the following:

a) Acoustic feedback
b) Persistent high-level high-frequency signals from electronic musical instruments
c) Persistent distorted high-output signals
d) Popping noises produced when a device in the system is switched on, connected or disconnected while the amplifier is switched on.

Connections and cables

• Cables are the connecting links between all components in a transmission chain, from microphones and instruments to speakers. They are often underestimated in this function.
• Please make sure that your cables function correctly
• When purchasing cables, ensure that they are high-quality cables with good connectors and that they cannot be damaged by e.g. people walking on them
• Make sure that the distributor for the mains voltage supply is intact.
• Using mains cables and distributors with insulated or missing protective earth conductors is prohibited
• Attention should also be paid when laying cables: asymmetric cables should e.g. not be laid beside lighting cables. If necessary, they should be crossed at right angles to keep the risk of interference to a minimum
• Cables should always be secured to the floor with gaffer tape
• **WARNING**: Do not place any objects on the mains cable for the unit. Only use mains cables that are intact
• The unit should only be connected to a mains power supply if the mains voltage corresponds to the one specified on the unit Unplug the mains cable if the unit is not used for long periods.
• When unplugging, do not pull on the cable, pull on the plug

Service and warranty

• Have a qualified technician service the unit if:

a) The mains cable or the mains jack is damaged
b) Foreign objects or liquid have entered the unit
c) The unit was exposed to rain
d) The unit does not function correctly or shows a noticeable change in performance
e) The unit has been dropped or the housing is damaged

• Do not perform any work on the unit that extends beyond general maintenance. Have all other service work carried out by qualified service personnel, without exception.
• Retain any original packaging in case the unit is damaged and needs to be sent for repair. This will minimize the risk of damage during transportation.

Table of Contents

1. Introduction

The EasyPort is a high quality powered loudspeaker for a wide range of applications. It allows you to set up a mobile or fixed sound system quickly and easily. This professional design is easy to use even if you are not familiar with the intricacies of sound reinforcement. A clear control layout and rugged case make the EasyPort a user-friendly tool for every sound system application.

2. Safety

2.1 Precautions

1. This device has been manufactured and testet in accordance with the German VDE safety guidelines for electronic equipment. It has left the factory in perfectly safe condition. In order to maintain safety and avoid risks of damage or injury, take the usual precautions and follow all safety instructions in the manual.

2. This device conforms to the German Class 1 safety standards. When properly installed, all exposed metal parts are permanently connected to safety ground. For safety reasons, connect the equipment to a standard three-pin outlet with protective ground only. Never open the safety ground connection.

3. This device conforms to the EMC legislation currently in force as certified by the CE mark on the device.

4. This device contains no user serviceable parts. To reduce the risk of fire or electric shock, do not open the device and refer servicing to qualified personnel.

5. Make sure to dispose of used batteries conforming to local waste disposal rules. Never throw batteries into the fire (risk of explosion).

2.2 Potential Risks

If the equipment

•   is visibly damaged;
•   contains loose parts;
•   does not operate correctly;
•   has been stored under adverse conditions (e.g., outdoors or in a damp room) for extended periods of time; or
•   was exposed to high transportation stress (e.g., due to inadequate packaging),

operating the equipment may be unsafe. Switch power to the equipment off and mark the equipment.
Make sure the equipment cannot be connected to power or switched on unintentionally by third persons.

3. Unpacking

Your EasyPort **FP-22** modular comprises the following components:
1. **FP-22** modular **self-powered loudspeaker**
2. **IEC-cable**
3. **small screwdriver (for setting gain controls)**

Your EasyPort **FP-22** modular **with Bluetooth-MP3/WAV-Player** comprises the following components:

1. **FP-22 modular with built-in Bluetooth-MP3/WAV-Player**
2. **Infrared remote control for Bluetooth-MP3/WAV-Player**
3. **IEC-cable**
4. **unscrewable stand adapter SA-2**
5. **small screwdriver (for setting gain controls)**

Your EasyPort **FP-22** passive comprises the following components:

1. **FP-22** passive: **passive loudspeaker**

Optional wireless microphone systems for EasyPort FP-22:
1. Wireless receiver (will be installed in EasyPort FP-22)
2. Handheld transmitter with microphone element, or bodypack transmitter with lavalier or headset microphone

Please check that the package contains all components of the system you ordered. If anything is missing, please contact your Fohhn dealer immediately.

4. Description

4.1 General

FP-22 modular

The EasyPort FP-22 are self-powered loudspeakers. A built-in 4 channel mixer with 2-band equalizer lets you connect a media player or similar audio source, two wired microphones, and the supplied wireless microphone for simultaneous operation. Up to 4 built-in radio receivers are possible.

The FP-22 is optionally equipped with an integrated **Bluetooth-MP3/WAV-Player.**

The EasyPort is also available with a pre-installed wireless receiver that provides highly reliable and excellent audio quality. A handheld or bodypack transmitter of your choice (optional) makes the EasyPort a self-contained sound system for use with hardwire or wireless microphones.
For mains independent operation, the EasyPort features a built-in high quality, leakproof lead gel rechargeable battery that conforms to the strict standards of the German Association of Casualty Insurers.
The battery features much lower self-discharge and a better capacity/volume ratio than nickel-cadmium batteries and has no memory effect.
Battery capacity is 7.2 Ah for the FP-22 modular.

FP-22 passive

Passive additional speaker can be connect to FP-22 modular with loadspeaker cable (no integrated electronics).

4.2 Optional Accessories

FP-22 modular **and FP-22** passive

- Padded carrying bag for FP-22
- Raincover for FP-22
- SHP-2 stand adapter for FP-22
- WHP-2 wall bracket for FP-22, provits and tilts
- WHP-1 wall bracket for FP-22, speaker removable
- Loudspeakerstand
- Microphone stand with boom
- Carrying bag for two stands
- Music-Tray for portable music-playing equipment + microphone, easy to mount to speaker stands

4.3 Controls (Refer to illustration on page 14)

Most controls on the FP-22 are located on the back of the speaker. The squelch control (10) and the channel selector switch (11) for the radio receiver, which is fitted as an option, are located under the flap in the cover.
A sturdy carrying handle is integrated in the rear panel of the enclosure.

(1) recharge battery

Input jack for charging the integrated battery or operating the EasyPort on AC power.

(18) fuse

The power fuse is located below the power input socket. Prior to replacing the power fuse unplug the FP-22 from power. Make sure to use replacement fuse of the same type as the original fuse only for 230 VAC:
1 A MTR (5x20mm)

(2) Power pack charge status display

Quick-charge mode, charging time 6 hours
If the yellow LED lights up continuously, the FP-22 is in quick-charge mode, the LED then flashes once the power pack starts charging.

(3) power switch

Switches power to the EasyPort FP-22 audio section and amplifier on and off but does not affect the charging circuit.

(4) S **Status Display**
t

Status LED, multi-coloured, charge status of the power pack is indicated by a flashing sequence.
When the FP-22 is switched on, the LED lights up green if the power pack is fully charged.
When the power pack falls below 30% capacity, the LED starts to flash red.
If the power pack voltage is decreasing, the LED flashes red increasingly quickly until it lights up red continuously.
After the LED is lit for 10 seconds, the FP-22 switches off to prevent the power pack from an exhaustive discharge.
A signal sounds when the FP-22 switches off.

(20) DC out jack (12 volt output)

DC out jack, 12V 500mA for connecting external equipment such as radio receivers and playback devices such as CD players, etc.
The DC out jack is short-circuit proof and has a polarity inversion protector.

Note:
The FP-22 modular cannot be charged via this jack.

(19) Speakon output port for FP-22 passive

Passive additional speaker FP-22 passive can be connected to FP-22 modular with loadspeaker cable.

Note:
Only use FP-22 passive on this output port!

music

(5) line input l/r

You can connect an external media player (CD player, MP3 player, cell phone...) or other high-level sources to these two RCA jacks via a stereo RCA cable. The input is designed as a stereo input, but internally a mono sum is formed. The input sensitivity is 100mV at 10kOhms for nominal level.

(23) line input

Line input, XLR electronically symmetrical, for playback equipment or other signal sources
(Symmetry transformer optional).

(6) volume

This rotary potentiometer sets the loudness volume of the audio source connected to the line input l/r jacks (5) + (23).

(15) gain

This level control (gain) can be used to adjust playback devices with different output powers. To avoid operating errors, the control can only be adjusted with the small screwdriver supplied. The gain control is preset to an average value.
When using the built-in Bluetooth MP3/WAV player, it should

(7) line out l/r

These two RCA jacks allow you to connect either a recorder or another EasyPort to your unit using a stereo RCA cable (not supplied).
The two jacks are internally paralleled and carry the output signal of the built-in mixer with all the volume and EQ settings you made. The output voltage at nominal level is 0,5 V into 200 ohms source impedance.

(25) line output jack

(24) mix out:
Line output, XLR symmetrical for passing on the complete mixer signal to recording equipment or other EasyPort systems (when switch is in the „mix-out" position).

(24) receiver out:
Receiver out for ch4, XLR symmetrical, pre fade.
(when switch is in the „receiver-out" position)

wired mic

(8) input
(26) This balanced female XLR connector allows you to connect a wired microphone (optional) via a standard microphone cable with a male XLR connector (optional). Since the microphone INPUT provides 12 V phantom power you can connect both dynamic and electret or condenser microphones.
Input sensitivy for nominal level is 2 mV into 1 k ohms.
Pin 1 is ground, pin 2 „hot" (inphase), pin 3 return.

(9) volume

(22) This rotary potentiometer sets the loudness volume of the microphone connected to the INPUT connector (8) + (26).

(16) gain
(21) This recessed pot matches the input level of the EasyPort to the output level of a wired microphone. You can only adjust the gain control with the supplied small screwdriver so that the control cannot be misadjusted inadvertently.
The gain control has been factory preset to a medium position.

wireless mic

(10) wireless receiver
(11) (10) squelch, (11) channel
For details on the optional wireless receiver please refer to the enclosed instruction manual for the receiver.

(12) volume

This rotary potentiometer sets the loudness volume of the wireless microphone.

(17) gain

This recessed pot matches the input level of the EasyPort to the output level of a wireless microphone. You can only adjust the gain control with the supplied small screwdriver so that the control cannot be misadjusted inadvertently.
The gain control has been factory preset to a medium position.

EQ
The two-band equalizer acts on the microphone inputs only.

(13) bass

Rotary control for cutting or boosting the low frequencies.

(14) treble

Rotary control for cutting or boosting the high frequencies.

4.3.1 Bluetooth-MP3/WAV-Player (Option)

Your Bluetooth MP3/WAV player consists of 2 separate basic devices, each of which can be separately adjusted and switched on via its own volume control.

The Bluetooth receiver on the left side, as well as the MP3/WAV player with USB and SD card slot on the right side can in principle be operated in parallel when both devices are switched on. The total volume of both single sources can be adjusted via the volume knob (6) in the overall mix of the FP-22.

The MP3/WAV player has several playback modes: the standard playback (basic functions) can be done directly on the MP3/WAV player. The advanced playback functions can only be accessed using the supplied remote control.

It supports the formats: MP3, WAV and WMA and can play them from memory sticks via the USB port (35) or SD/MMC cards via the card slot (36). These media must be FAT or FAT32 formatted.

For the Bluetooth receiver part on the left side, only the controls "volume control/on/off knob" and a "pairing button" are available directly on the device. All other settings such as track selection, start, stop, etc. are operated directly on your Bluetooth transmitting device (smartphone, etc.).

Remote control

The infrared remote control can only call up the functions of the MP3/WAV player, i.e. not the volume controls of the microphones. All basic function keys correspond 1:1 to the symbols on the player. The extended operation is listed separately in the lower part of the table. The infrared receiver (38) should always be visually accessible when using the remote control. Due to the infrared technology, the remote control is not suitable for outdoor use. The infrared signal is affected by sunlight.

OVERVIEW OF THE CONTROLS

No.	Label	Function
Bluetooth receiver		
(31)	ON/MIN/MAX	On/off switch and volume control
(32)	LINK	Activates Bluetooth "pairing" mode
(33)	LOCK/SCAN-LEDs	Bluetooth connection status display
MP3/WAV player and remote control Basic functions		
(34)	ON/MIN/MAX	On/off switch and volume control
(35)	USB	Connection of a USB memory stick
(36)	SD/MMC CARD	Connection of a SD/MMC card
(37)	LCD	Multifunction display
(38)	IR	Remote control signal sensor
(39)	|<	Title selection/ hold for search forward
(40)	>||	Play/Pause beginnt oder unterbricht die Wiedergabe
(41)	>|	Play/Pause starts or pauses playback
(42)	o	REC starts a recording to a USB stick or SD/MMC card
(43)	MODE	REPEAT-MODE controls the mode of the playback order
(44)	□	Stops playback or recording
Fernbedienung erweiterte Funktionen		
(45)	<<|	Order selection previous
(46)	>>|	Order selection next
(47)	DEL	Delete track (2x for confirmation)
(48)	Vol-Vol+/Mute	Player Volume (-/+) / Mute
(49)	0-9	Title direct dial direct
(50)	A-B	Section playback (Start/Play/Stop)
(51)	USB/SD	Switches playback medium between USB and SD/MMC

BASIC FUNCTIONS of the Bluetooth player (available without remote control)

(31-33) Operation of the bluetooth receiver

When the Bluetooth receiver is used, it must first be switched on via the rotary switch (31) and a basic volume must be set on it.

If the receiver was not switched off after the last use, it is automatically supplied with power after switching on your FP-22 and is functional. If a compatible Bluetooth device has already been connected in the past, the green "LOCK" LED will light up and a confirmation tone will sound. The receiver is now ready for playback and appears as "BT AUDIO" in your playback device (e.g. smartphone or notebook...).

If no already tuned-in Bluetooth transmitter device connects to the player at startup, the player automatically switches to "pairing mode" after a few seconds. Both LEDs (33) flash alternately green and red. Now the device is ready to receive pairing requests from your playback device and can be found by your sending device under the name "BT AUDIO". After successful connection, the confirmation tone will also sound, the "LOCK" led will light green and the receiver is ready to play.
To initiate the pairing manually press the "LINK" button (32). All further control commands (track selection, rewind, start/stop, etc.) are performed on your paired playback device.

BASIC FUNCTIONS of the MP3/WAV player (available without remote control)

(34-36) Inserting the playback media

When the MP3/WAV player is used, it must first be switched on via the rotary switch (34) and a basic volume set on it. If the player was not switched off after the last use, it will be automatically supplied with power after switching on your FP-22. The player will automatically start playing the last selected track, if a media is already inserted. If not, insert your playback media (USB stick/SD/MMC card) into the designated slots (35) and/or (36). The last selected source is prioritized and played automatically after a short time. You can change the playback medium by removing the medium you do not want from its socket. The storage media can be removed from the player at any time. SD/MMC cards are unlocked for this purpose by pressing lightly on the back, just as when inserting them.

USB sticks should be removed from the player during transport of the EasyPort to prevent damage to the socket by mechanical bending.

(37) Multifunction display
The display (37) shows all necessary information about the player status in the upper area. Below this is the name of the track being played (ID3 tag), as well as its track number and the total number of tracks available on the selected storage medium.

(39-41)(44) Title navigation, play, pause, stop

Title skip
This function allows you to select a specific track. By briefly pressing [|<-] or [->|] (39)/(41), the previous or following track can be selected. If this is done during playback or in stopped state, the selected title starts automatically.

Forward/rewind within a title.
By pressing and holding (>0.7s) [|<-] or [->|] (39)/(41), you can fast forward or rewind within a title.
If this is done during playback, playback automatically resumes at the new position. No audio signal is played back during "winding

Play/pause
By pressing the [>|] key (40), the playback of a track can be started, paused and resumed.

Stop
By pressing the [□] key (44), the playback of a track can be stopped and a jump to the first track on the current storage medium takes place.

(42) Record
Die Taste [REC] (42) startet die Aufnahme auf ein eingelegtes Medium (SD/MMC oder USB).

(43) Playback order/MODE
By pressing the MODE key (43), different playback modes can be selected:

1. ALL
All tracks are played in the order of their numbering. After finishing the last track in a folder, it will automatically jump to the next folder and continue playing.

2. SINGLE
Only the currently playing track will be repeated in a loop.

3. FOLDER
All tracks are played back in the order of their numbering. After finishing the last track in a folder, it will automatically jump to the first track of the current folder and continue playing.

ADVANCED FUNCTIONS of the MP3/WAV player (only available via remote control)

(45-46) Folder jump

This function allows you to jump from one folder of the playback media, to an adjacent folder.
Pressing the [<<|] button (45) jumps to the preceding folder, pressing the [>>|] button (46) jumps to the following folder, and playback continues at that point.

(47) Delete track

By pressing the [DEL] key (47), the currently selected track can be deleted.
The deletion process must be confirmed by pressing the key a second time.
Pressing another key interrupts the delete request.
A successful deletion process cannot be undone!

(48) Volume control / Mute

With the keys [Vol-] [Vol+] (48) the MP3/WAV player can be adjusted louder or softer in 15 steps by remote control. This volume control is located before the rotary potentiometer (34) and always starts at +15 after a restart of the player.
The mute key [MUTE] (48) switches the playback of the player to mute. In contrast to the [>|] key (40), the title continues to play silently in the background. Pressing the key again cancels this muting. After a restart of the player, the muting is canceled again.

(49) Direct title selection

The numeric keys [0-9] (49) are used to select titles, similar to the title jump (39)/(41), but directly.
Title numbers greater than 9 can be set by a quick sequence of keys. The first press indicates the hundreds digit, the second the tens digit and the third the ones digit.
The title is played automatically after it has been entered.

(50) Clip playback

By pressing the [A-B] key (50), a section of the track being played can be marked and played back in a loop. The first press marks the beginning of the section, another press marks the end of it.
The playback loop can be interrupted again by pressing the [A-B] key (50) again.
The title will now be continued.

(51) Changing the playback medium

If 2 playback media (USB and SD/MMC) are inserted in the player at the same time, the active medium can be changed by pressing [USB/SD] (51).
Playback continues from the last medium

5. Setting Up

5.1 Operating Environment

1. Acceptable ambient temperature during operation ranges from -5˚C to +40˚C.
2. Acceptable temperature during storage or shipping ranges from -15˚C to +40˚C.
3. If condensation has formed on the equipment or the rear panel during shipping or storage, allow the unit to acclimate for 2 hours before powering up.
4. The loudspeaker has been designed for use in a dry environment with air of normal relative humidity and dust concentration. Never expose the unit to aggressive chemical liquids or vapors.
5. You can position the unit at any angle. Make sure, though, to provide at least 4 inches of free air space behind the rear panel for adequate ventilation.

5.2 Audio Connections

1. Set all VOLUME controls (6), (22), (9) and (12) to zero.
2. Connect the desired audio source (e.g., cassette player, CD player) to the LINE INPUT jacks (5) or (23) using a standard cable.
3. Use a commercial XLR cable to connect your wired microphone to the INPUT connector (8) or (26).
4. If you want to record your performance or presentation, connect a (cassette, DAT, tape or other) recorder to the LINE OUT jack (7) or the mix-out jack (25) (turn switch (24) in the „mix-out" position) using standard jack or XLR cable.
5. For consistent audience coverage, you can use another FP-22 modular. Connect the LINE OUT jack (7) or (25) to the LINE IN jacks (5) or (23) of the other FP-22 modular.

5.3 Powering Up (Battery Operation)

The EasyPort FP-22 modular has been designed primarily for battery operation. Before first operating the EasyPort or if the unit has not been connected to AC power for more than a year, charge the battery for 14 hours.

1. Plug the IEC cable into the recharge battery jack (1) on the EasyPort FP-22 modular rear panel.
2. Check that the AC mains voltage stated on the supplied AC adapter is identical to the AC mains voltage available where you will use your FP-22. Using the AC adapter with a different AC voltage may cause irreparable damage to the unit.
3. Connect the IEC cable to a convenient power outlet. Do not use switched outlets!
   Charging will start automatically and the yellow Charging LED (2) will light constantly. When the yellow Charging LED (2) starts flashing the battery is fully charged and the EasyPort is ready to operate.

4. EasyPort is ready to operate.
5. Unplug the IEC cable from the recharge battery jack (1).
   When the FP-22 modular is switched on (3), the LED (4) lights up green if the power pack is fully charged.
   When the power pack falls below 30% capacity, the LED starts to flash red.
   If the power pack voltage is decreasing, the LED flashes red increasingly quickly until it lights up red continuously.
   After the LED is lit for 10 seconds, the FP-22 modular switches off to prevent the power pack from an exhaustive discharge.
   A signal sounds when the FP-22 modular switches off.
   Recharge the battery as per steps 1 through 4.

☞

Depending on the load, battery operating time will be 8-18 hours.
Since the battery has no memory effect, you will not need to discharge it fully before charging. Therefore, you can start charging at any time irrespective of the battery`s residual capacity.

⚠

Lead batteries should not be stored for extended periods of time in entirely or partially discharged condition. We therefore recommend to recharge the battery immediately after use.
In order to made sure the EasyPort is always ready to operate, it is best to leave it connected to AC power whenever you do not use it.

5.3.1 Total Discharge Protection Circuit

Discharging a battery totally may cause extensive damage. We therefore provided the electronic circuitry of the EasyPort with an intelligent protection circuit that effectively prevents the battery from being totally discharged. The protection circuit automatically isolates the entire EasyPort electronics from the battery and switches the loudspeakers off before battery capacity approaches the total discharge threshold. If this happens, recharge the battery immediately.

5.4 Powering Up (AC Operation)

The EasyPort has been designed for an AC voltage of 230 V/50Hz. Custom versions with an adapter for other AC voltages are available on request.

1. Plug the supplied IEC cable into the recharge battery jack (1) on the EasyPort rear panel.
2. Check that the AC mains voltage stated on the EasyPort is identical to the AC mains voltage available where you will use your EasyPort. Using the AC adapter with a different AC voltage may cause irreparable damage to the unit.
3. Connect the IEC cable to a convenient power outlet.
   Important: In case the AC plug needs to be replaced with a different type, note that this job may only be performed by a qualified technician.
4. To power up the EasyPort set the power switch (3) to on. The status LED (4) next to the power switch (3) will illuminate green.

   Note: During AC operation, the charging circuit of the EasyPort will automatically switch to trickle charge mode. This means that the battery will be automatically recharged during operation. This also means you can continue operating the EasyPort on AC power even if the battery is completely down.
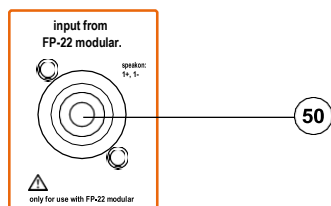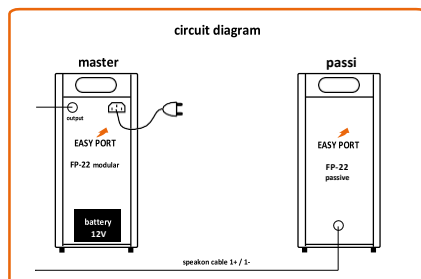
   Note: In the event of a power failure, the EasyPort will automatically switch to battery operation with no interruption. Therefore you can not switch the EasyPort on and off by means of an external power switch or safety cut-out.

5.5 Wireless Microphone Systems

For details on the optional wireless receiver please refer to the enclosed instruction manual for the receiver.

5.6 Operation of FP-22 modular with FP-22 passive

Connect the speaker input port (50) of the FP-22 passive with the speaker output port (19) of FP-22 modular. Use a commercial speakon cable: 1+/1-
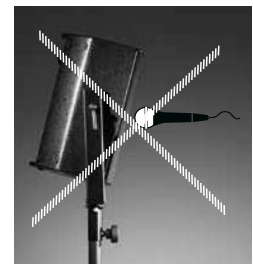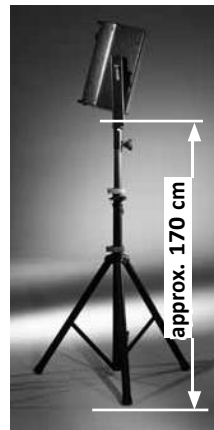

6. Operating Notes

6.1 Optimum Placement

In order to ensure consistent coverage and intelligibility from the first to the last row of the auditorium,

1. Place the EasyPort FP-22 modular/passive as high as possible using a loudspeaker stand.
2. Check that loudspeaker is clearly visible from each seat or standing room area and that the sound will not be absorbed by people or objects.
3. To optimally align the EasyPort FP-22, you can use the optional SHP-2 stand adapter:

   1. Mount the loudspeaker on the stand adapter.
   2. Place the loudspeaker adapter on the loudspeaker stand. Extend the stand to its full length and aim the
   3. loundspeaker down at the audience in the same way you woud aim a spot-light to cover the entire audience.

6.2 Avoiding Feedback

When using your EasyPort FP-22 with a wired or wireles microphone, acoustic feedback may occur so the loudspeaker would start whistling or howling. To prevent feedback:

1. Make sure the talker will stand behind the loudspeaker in order to prevent feedback.
2. Make sure never to point the microphone element directly at the loudspeaker.
3. Hold the handheld transmitter by the shaft. Be sure not to cover the microphone element with your hand.
4. Should the loudspeaker start whistling or howling at the same turn the VOLUME control down CCW to the point that the feedback noise will stop.

7. Cleaning

You can clean the loudspeaker enclosure with a moistened cloth. Make sure that liquid will not penetrate into the case.

8. Specifications

Model	FP-22 modular
electro-acoustical features	
acoustic design	active, battery-powered loudspeaker system
	2-way, bass reflex
components	8" / 1" compression driver with short horn
operating mode	active, battery or AC power operation, Class-H
sensitivity (@1m, peak)	117 dB
frequency range[5]	65 Hz – 20 kHz
nominal dispersion (h x v)[6]	100° x 100°
features	
enclosure	birch plywood cabinet,
	plastic feet, 1 handle
mounting devices	2x M8 mounting devices for U-bracket SHP-2
standard colour	black textured paint
frontal design	acoustic foam
dimensions (W x H x D)	240 x 510 x 270 mm
optional features	
optional colours	all RAL-colours
wireless microphone system	built-in 1-2x 9.5" wireless receiver
electronic performance	
amplifier (music)	60 W
EQ	bass, treble (shelving)
processor function	autolimiter / subsonic
	automatic proximity filter

connectors	
connectors	
mic input	3-pol XLR input socket
line inputs	2x RCA, stereo sum to mono
line input	XLR socket
line outputs	2x RCA jacks
line output	XLR socket
mixer inputs	2x ext. mic sym. 2 kOhm
	1x int. wireless mic 10 kOhm
	2x line RCA 10 kOhm
	1x line XLR sym.
phantom power	12 volts
outputs	2x line RCA jacks / 600 ohms
	1x XLR sym. for recording or stacking
12V output	12V DC out for external equip., pin ø 2,1 mm
output for FP-22 passive	Speakon NL-4
power supply	
230 V AC	integrated power supply for recharging, IEC cable
fuse	1A MTR (5 x 20 mm)
rechargeable battery	12 V / ca. 7,2 Ah
operation time apporx. (speech / music)	8 - 18 hours
FP-22 modular with Bluetooth-MP3/WAV-Player	
speaker stand pole	unscrewable stand adapter SA-2
CD player	built-in, with IR remote control
weight[7]	13,5 kg
FP-22 modular without Bluetooth-MP3/WAV-Player	
speaker stand pole	integral, ø 36 mm
CD player	- (retrofit)
weight[7]	12,9 kg

Model	FP-22 passive
electro-acoustical features	
acoustic design	passive loudspeaker system
	2-way, bass reflex
components	8" / 1" compression driver with short horn
operating mode	passive (for operation with FP-22 modular)
power rating (nominal)[1]	120 W
sensitivity (@1m, peak)	117 dB
frequency range[5]	65 Hz – 20 kHz
nominal dispersion (h x v)[6]	100° x 100°
features	
enclosure	birch plywood cabinet,
	plastic feet, 1 handle
speaker stand pole	integral, ø 36 mm
mounting devices	2x M8 mounting devices for U-bracket SHP-2
connections	Speakon NL-4 input
standard colour	black textured paint
frontal design	acoustic foam
dimensions (W x H x D)	240 x 510 x 270 mm
weight[7]	9 kg
optional features	
optional colours	all RAL-colours

This equipment conforms to standards EN 61000-6-1, EN 61000-6-3 and EN 60065. We reserve the right to alter the specifications without notice.

[1] according to IEC-60268-5 long term

[5] -10 dB under anechoic halfspace-conditions

[6] horizontal x vertical at -6 dB

[7] net weight without optional equipment

9. Installing of the optional Bluetooth-MP3/WAV-Player

Required tools:
Hexagon wrench width across flats SW2 and a side cutter.

Required components:
Fohhn Bluetooth-MP3/WAV-Player with remote control for FP-22.

1. Loosen the four screws of the black cover panel on the back of the speaker and carefully lift the panel.

On the inside of the bezel, the cable harness for the Bluetooth MP3/WAV player is attached with a cable tie.
Cut the cable tie with a side cutter. Be careful not to damage the cable harness. You can now remove the cover panel.

Connect the cabling to the Bluetooth MP3/WAV player as shown.

Now slide the Bluetooth MP3/WAV player into the opening in the rear panel.

Fasten the Bluetooth-MP3/WAV player with the four M3 hexagon socket screws.

Tighten the M3 screws hand-tight.

The cover plate is no longer required.

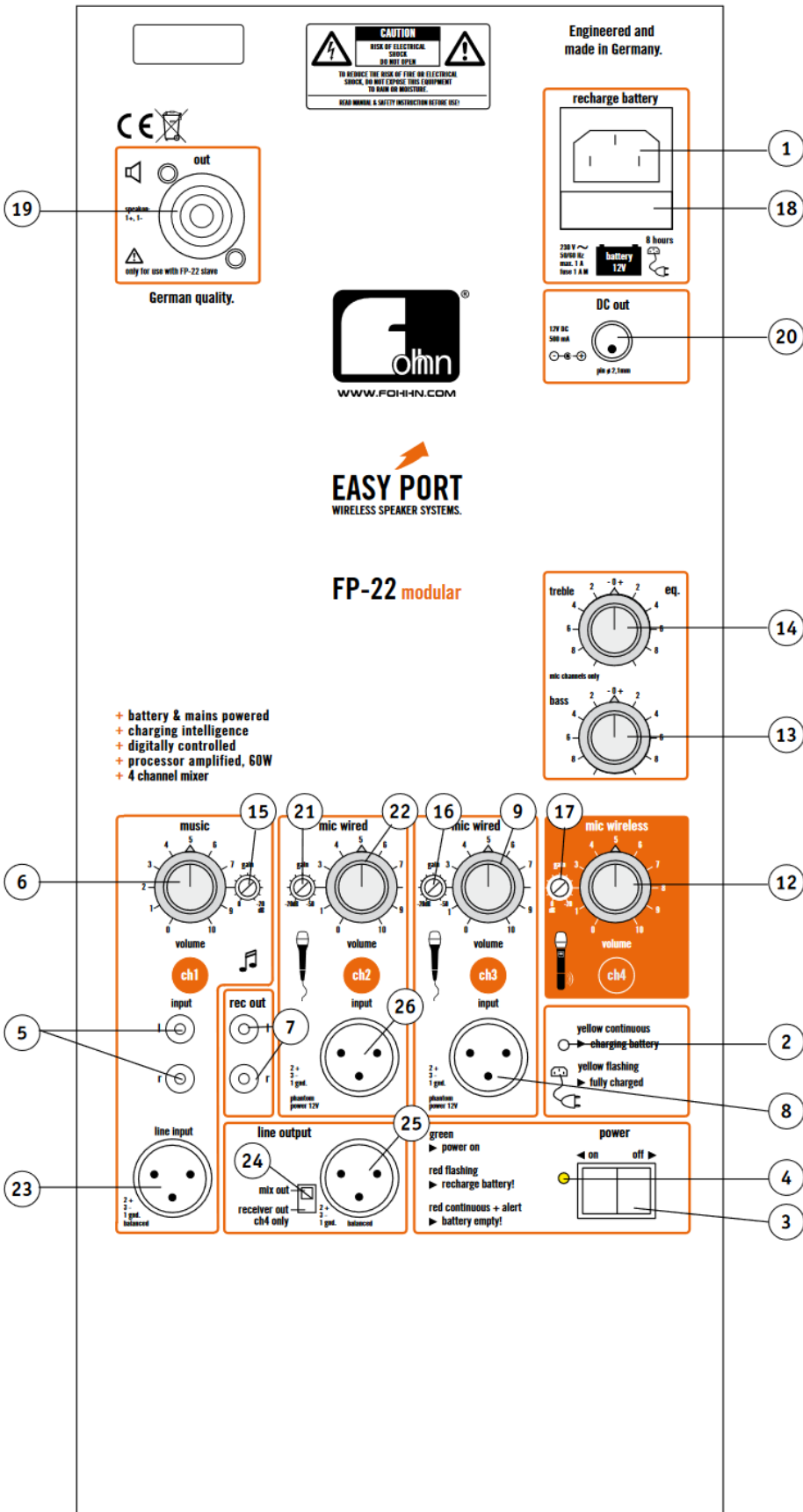## 10. Installing of the optional wireless receiver in FP-22 modular

The FP-22 modular was designed in such a way that specialised dealers can install the radio receiver independently, following successful completion of an installation training course at Fohhn Audio AG.
Please contact your dealer.
Flexible, free accessible slot for different types of wireless receivers of renowned manufactureres.

recharge battery

1
18

230 V ~
50/60 Hz
max. 1 A
fuse 1 A M

battery
12V

8 hours

DC out

12V DC
500 mA

pin ⌀ 2,1mm

20

out

speaker
1+, 1-

⚠ only for use with FP-22 slave

19

German quality.

CE ⌧

Engineered and
made in Germany.

CAUTION
RISK OF ELECTRICAL
SHOCK
DO NOT OPEN

TO REDUCE THE RISK OF FIRE OR ELECTRICAL
SHOCK, DO NOT EXPOSE THIS EQUIPMENT
TO RAIN OR MOISTURE.

READ MANUAL & SAFETY INSTRUCTION BEFORE USE!

Fohhn®
WWW.FOHHN.COM

EASY PORT
WIRELESS SPEAKER SYSTEMS.

FP-22 modular

+ battery & mains powered
+ charging intelligence
+ digitally controlled
+ processor amplified, 60W
+ 4 channel mixer

treble   eq.

14

mic channels only

bass

13

music

gain

6   15

volume

🎵

ch1

input

5

l
r

line input

2+
3
1 gnd.
balanced

23

mic wired

21   22

gain

volume

ch2

input

26

rec out

7

l
r

2+
3
1 gnd.

phantom
power 12V

line output

25

mix out

24

receiver out
ch4 only

2+
3
1 gnd.

balanced

mic wired

16   9

gain

volume

ch3

input

17

2+
3
1 gnd.

phantom
power 12V

8

mic wireless

12

volume

ch4

yellow continuous
► charging battery

2

yellow flashing
► fully charged

green
► power on

red flashing
► recharge battery!

red continuous + alert
► battery empty!

power

◄ on   off ►

4

3

10   11

14 | **FP-22**