

# FOCAL FLEX POWER 2120

Stereo mixing amplifier

The Focal Flex Power 2120 is an integration stereo mixing amplifier that was made to meet all the “public address” sound system requirements with the guarantee of the Focal sound. Polyvalent, flexible and rackable, low-consumption in full power as well as in standby, easy installation and user-friendly, ultra-robust, the Flex Power 2120 suits any situation, from the simplest configuration to the most sophisticated, thanks to the numerous exclusive functions. Everywhere where the needs in the highest quality sound and perfect intelligibility prevail.



## Characteristics

- Exceptional Focal sound quality
- Only one device for multiple applications
- Simplicity and ergonomics
- Full stereo mixing inputs 2 x 120 Watts
- Exclusive limiter and automatic level control, low saturation risks
- Exclusive voice filter system for perfect intelligibility.
- 70V/100V and 25V output line
- Level control through VCA or 0-10V controller
- Two output zones
- High efficiency, low energy consumption, silence (no fan)
- Extra front auxiliary input

## Applications

Bar, restaurant, hotel, place of worship, meeting room, conference room, classroom, lecture hall, commercial premises, gymnasium, fitness room, swimming-pool, multi-purpose room, multimedia library, waiting room, reception, theme park, private house.



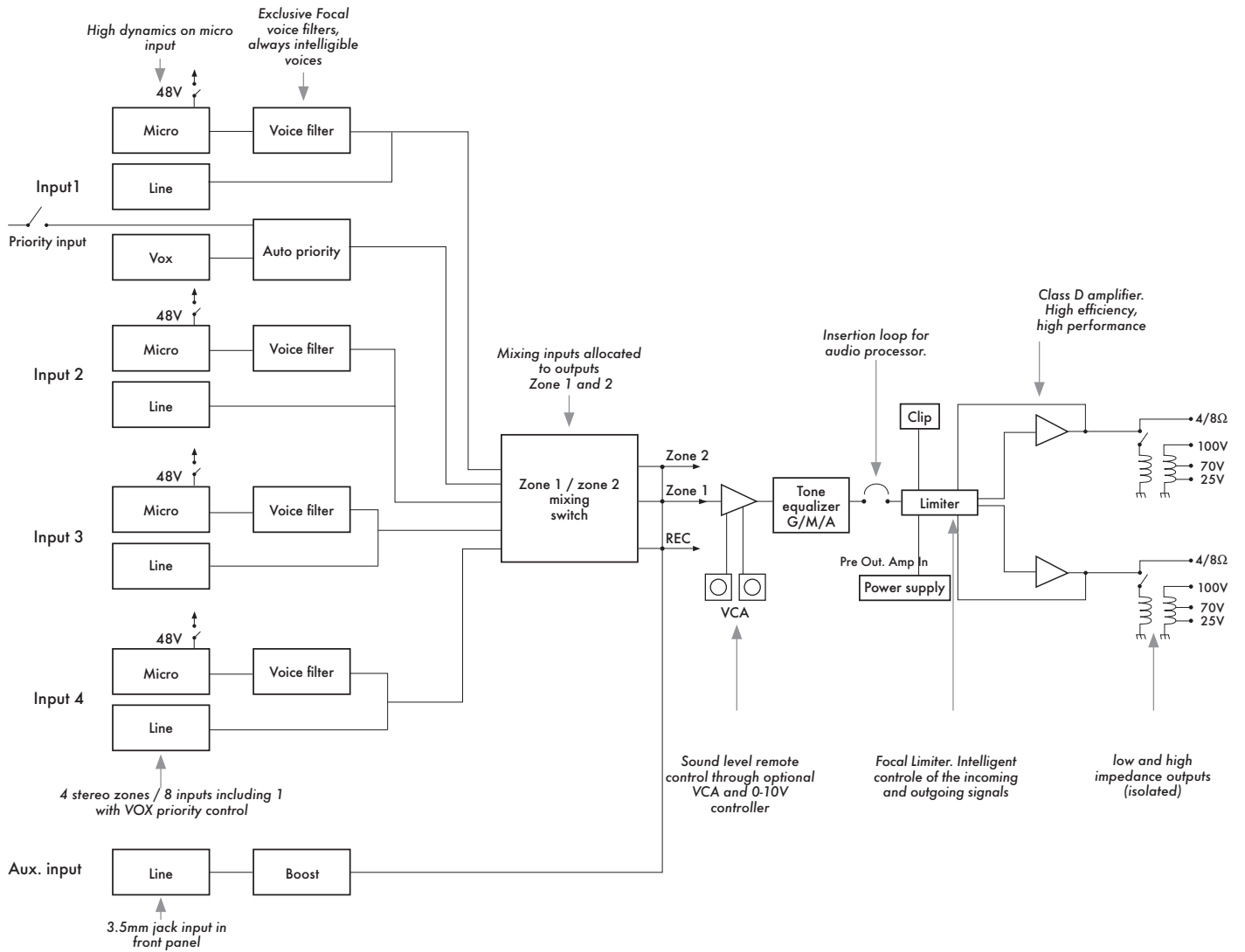
- Stereo power component class D Hypex



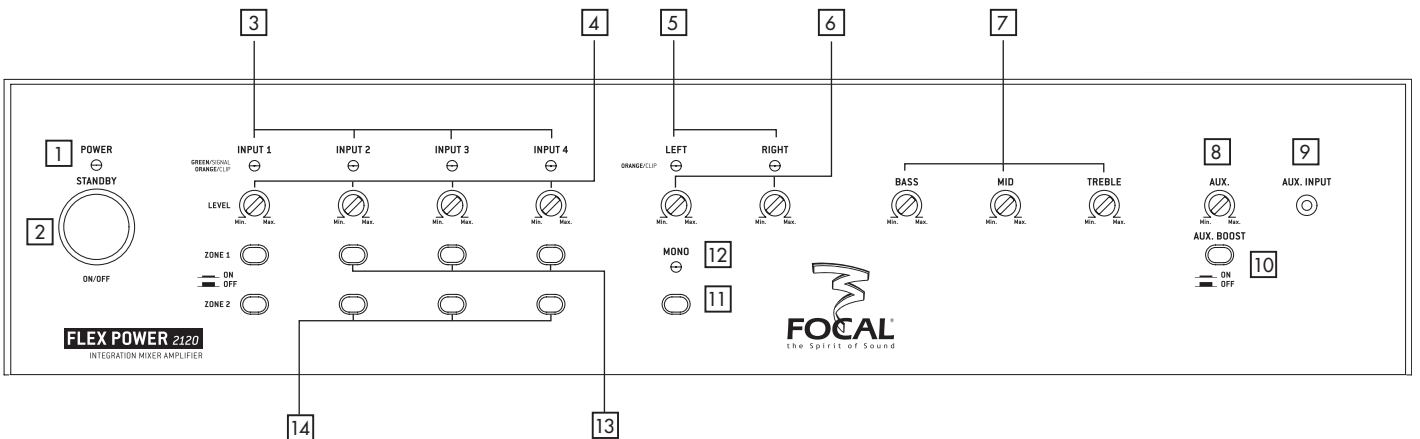


6 pin Euroblock driver outputs	<ul style="list-style-type: none"> <li>Nominal power</li> <li>Bandwidth</li> <li>Bass/midrange/treble adjustments</li> </ul>	<p>2 x 120 Watts RMS</p> <p>40Hz – 30kHz in Max. power (4/8Ω outputs) DHT &lt;0.2%</p> <p>± 9dB @ 100Hz / 1kHz / 10kHz</p>
9 pin Euroblock line outputs	<p>Microphone</p> <ul style="list-style-type: none"> <li>Sensitivity / Impedance</li> <li>Signal/noise ratio</li> <li>Phantom power supply</li> <li>Permanent voice / Commutable Voice Boost filter</li> <li>Voice priority (input 1)</li> </ul>	<p>1mV / 3kΩ</p> <p>- 70dB</p> <p>48V/6.8kΩ</p> <p>- 6dB @ 180Hz and 15kHz / + 5dB @ 3.7kHz</p> <p>Response 50ms / recovery 2.5s</p>
Stereo symmetric / Stereo asymmetric	<ul style="list-style-type: none"> <li>Impedance</li> <li>Sensitivity</li> <li>Signal/noise ratio</li> </ul>	<p>20kΩ / 10kΩ</p> <p>850mV</p> <p>- 90dB</p>
Stereo 3.5mm jack front input	<ul style="list-style-type: none"> <li>Impedance</li> <li>Sensitivity</li> <li>Signal/noise ratio</li> </ul>	<p>7.5kΩ ( 1.5kΩ in Boost mode)</p> <p>250mV ( 50mV in Boost mode )</p> <p>- 85dB</p>
RCA stereo Amp input	<ul style="list-style-type: none"> <li>Sensitivity / Impedance</li> </ul>	<p>1V (0dBV) / 10kΩ</p>
Symmetrical 6 pin Euroblock Zone 2 output	<ul style="list-style-type: none"> <li>Output level / Impedance</li> </ul>	<p>1.3V (+4dBu) / 680Ω</p>
Stereo RCA Record line output	<ul style="list-style-type: none"> <li>Output level / Impedance</li> </ul>	<p>350mV (-10dBV) / 680Ω</p>
Stereo RCA Pre-Out output	<ul style="list-style-type: none"> <li>Output level / Impedance</li> </ul>	<p>1V (0dBV) / 680Ω</p>
4 pin Euroblock VCA control	<ul style="list-style-type: none"> <li>Live control</li> <li>12V built-in output</li> </ul>	<p>Compatible with 0 – 10V controller</p> <p>Control through 10kΩ potentiometer</p>
Power supply / Consumption	<ul style="list-style-type: none"> <li>Local supply voltage</li> <li>Consumption in max. power</li> <li>Consumption via standby mode</li> </ul>	<p>230 / 115V, ± 15%, 50 / 60Hz</p> <p>300VA</p> <p>&lt; 2 Watts</p>
General	<ul style="list-style-type: none"> <li>Weight</li> <li>Chassis dimensions (HxLxD)</li> <li>Conformity</li> <li>Temperature of use</li> <li>Storage temperature</li> </ul>	<p>30.2lb (13.7kg)</p> <p>3 1/2 x 16 13/16 x 13 7/8" (89.5 x 427 x 353mm)</p> <p>CEM 89 / 336 / EEC and 73 / 23 / EEC</p> <p>-10 to +35°C</p> <p>-40 to +70°C</p>

# Synoptic



# Front panel description



- |                                       |                                   |
|---------------------------------------|-----------------------------------|
| 1 On / off / standby                  | 8 Sound level potentiometer       |
| 2 On/Off switch                       | 9 Input auxiliary                 |
| 3 Clipping and signal diodes          | 10 Gain switch of auxiliary input |
| 4 Sound level potentiometer           | 11 Mono mode switch               |
| 5 Clipping diodes                     | 12 Mono Diode                     |
| 6 Sound level potentiometer           | 13 Zone 1 switch                  |
| 7 Bass, Midbass, Treble potentiometer | 14 Zone 2 switch                  |

## Key points

### ◆ Class D amplifiers

Thanks to its amplification components Class D Hypex, the Flex Power **2120** benefits from an excellent energetic efficiency, which doesn't consume much in full power as well as in standby and reproduces an outstanding sound quality.

### ◆ Exclusive limiter and voice filters

The sophisticated limiter was designed to avoid the full saturation of the amplifiers even in the case of excessive use.

The exclusive voice filters are the guarantee of a perfect intelligibility and they are coupled with high dynamics micro inputs, with anti-clipping functions.

### ◆ Mixing inputs, 2 output zones

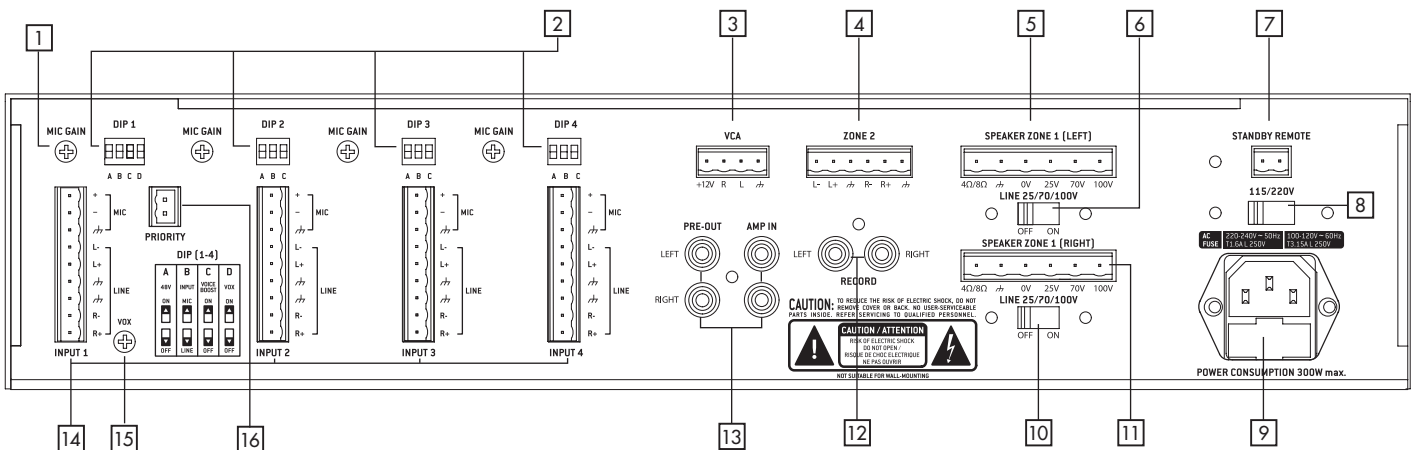
The Flex Power **2120** was designed to transport the stereo signals of its 4 input zones (total: 8 inputs plus a front panel with 4 micro with priority detection on input 1) on the two output zones. An output for the sound recorder and a loop that permit the insertion of an audio-processor (anti-larsen effect, EQ, DSP...) are also available.

### ◆ High-power in stereo

2 x 120W are available in low impedance outputs (4Ω / 8Ω), but also in high impedance (25V / 70V / 100V) with almost the same performance. Thanks to its hybrid connection mode, the Flex Power **2120** can work simultaneously with high and low-impedance loudspeakers (stereo configuration with two 8Ω monitors plus 100V reinforcements for example). The high impedance outputs on the transformer are entirely isolated.



## Back panel description



- |   |                          |    |                                  |
|---|--------------------------|----|----------------------------------|
| 1 | Micro gain potentiometer | 9  | Power supply cord plug with fuse |
| 2 | Inputs 1 to 4 Dipswitch  | 10 | Line 25 / 70 / 100V              |
| 3 | VCA                      | 11 | Speaker Zone 1 (right)           |
| 4 | Zone 2                   | 12 | Record                           |
| 5 | Speaker Zone 1 (left)    | 13 | Pre-Out / Amp-in                 |
| 6 | Line 25 / 70 / 100V      | 14 | Input 1 to 4                     |
| 7 | Standby remote           | 15 | Vox potentiometer                |
| 8 | 115V / 220V              | 16 | Priority                         |

