

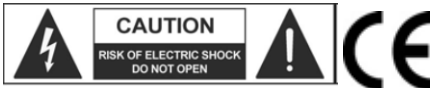


FULGOR SERVICE
SISTEMI DI AMPLIFICAZIONE

ACTIVO SYSTEM

***USER AND INSTALLATION
MANUAL***

PRECAUTIONS FOR USE



WARNING: To reduce the risk of electric shock, do not remove the cover (or rear panel). Inside, there are no parts that can be repaired by the user; Entrust the repair to qualified personnel.

CAUTION: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.



This symbol, when displayed, indicates the presence of a non-insulated hazardous voltage inside the body of the device - sufficient voltage to pose a risk of electric shock.



This symbol, when displayed, indicates important operating and maintenance instructions in the enclosed text. Read the manual.

RECOMMENDATIONS:

All safety and operating instructions must be read before operating the appliance.

Keep the instructions:


Safety and operating instructions must be kept for future reference. This manual is an integral part of the product and must accompany it in case of any change of ownership. This will allow the new owner to know the instructions for installation, operation and safety.

Pay attention:

All warnings on the appliance and operating instructions must be followed accurately. Observe all warnings.

Follow the instructions:

All operating and user instructions must be followed.

Notes preceded by the symbol  contain important safety information: Read them carefully.

DETAILED SAFETY INSTRUCTIONS.

Water and humidity:

The appliance should not be used close to water (eg near baths, kitchen sinks, near pools, etc.).

Ventilation:

The appliance must be placed in such a way that its location does not interfere with the proper ventilation. For example, the appliance should not be placed on a bed, sofa cover, or similar surfaces that can block the ventilation openings or placed in a recessed installation such as a bookcase or cabinet that can prevent the flow of air, Air through the ventilation openings.

Heat:

The appliance must be located away from heat sources such as radiators, thermostats, clothes dryers, or other appliances that produce heat.

Power supply:

- The appliance must only be connected to the type of power described in the operating instructions or on the appliance.

Features can be changed without notice

2

- If the supplied plug does not match the socket, contact an electrician to install an appropriate socket.

Grounding or polarization:

- Precautions should be taken to ensure that grounding and polarization of the device are not affected.
- The metal parts of the equipment are connected to ground via the power cord.
- If the power socket does not have a ground connection, contact a qualified electrician to connect the grounding device through the terminal.
- For plastic equipment, periodically check the condition of the power supply.

Power Cord Protection:

The power supply cord must be installed so that it is not to be trampled or pinched by objects placed on or against, paying particular attention to wires and plugs that are wall-mounted.

Cleaning:

- When the unit is to be cleaned, dust can be removed using a compressed air jet or damp cloth.
- Do not clean the unit using solvents such as triethylene, paint thinners, fluids, alcohol, high volatility fluids or other flammable liquids.

Non-use Periods:

The power cord of the appliance must be disconnected from the socket if it is not used for a long time.

Intake of liquids or objects:

Care should be taken to avoid dropping objects and not leaking liquids into the body of the appliance through the grilles.

Safe use of the power line:

- When disconnecting the appliance, hold the plug and the socket securely.
- When the unit is not used for a prolonged period, stop power by pulling the plug out of the power outlet
- To avoid damaging the power supply line, do not pull the power cord and do not use a twisted cable.
- To avoid damaging the power cord of the apparatus, make sure that it is not being trodden or crushed by heavy objects.

Moving the unit:

Before each shift, make sure the drive is off. The power cord must be removed from the socket as well as the unit's connections with other lines.

Do not disassemble the unit:

Do not attempt to disassemble or repair the unit yourself. For any problem that can not be resolved with the help of this manual, contact a qualified technician or contact our company www.fulgorservice.it

Malfunctions:

For any malfunctions contact our company (www.fulgorservice.it).

IMPORTANT SAFETY RULES:

- Install by following the instructions.
- Never open the equipment: inside there are no user-serviceable parts.
- If you notice a strange smell coming from the appliance, turn it off immediately and disconnect the power cord.
- Do not obstruct the ventilation grilles of the appliance.
- Avoid working overloading the unit for extended periods of time.
- Do not force commands (buttons, controls, etc.)
- For safety reasons, do not unscrew the plug-in connection. The ground connection is necessary to safeguard operator safety
- Use only the connectors and accessories specified by the manufacturer.
- The equipment must be kept away from:
 - Damp places

Features can be changed without notice

3

- Direct exposure to heat sources (such as sunlight).
- Unsuitable ventilation
- In the presence of lightning storms or when the apparatus is not in use, unplug the power plug from the socket.
- To prevent the risk of fire and electric shock, keep the equipment away from splashes and drops. Above the apparatus should not be placed vases or other objects containing liquids.
- FULGOR SERVICE s.n.c. Disclaims any liability for incorrect installation of the unit.

GUARANTEES AND RETURN:

The product is equipped with a guarantee of operation and compliance with its specifications, as stated by the manufacturer. The warranty is 24 months from the date of purchase. Faults detected within the warranty period, attributable to defective materials or construction defects, must be promptly reported to your dealer or distributor, enclosing the purchase date documentation and the description of the defect type found. Failures caused by improper use or tampering are excluded from the warranty. Fulgor Service s.n.c. Establishes by means of return verification the declared defect, related to proper use, and the effective validity of the guarantee; It then provides for the replacement or repair of the products, but does not however oblige any compensation for direct or indirect damages resulting from the defect.

ALL ONE



Technical features

Technology:	ONE-Pos
Main out:	43/44 Vdc
Maximum output current (max power):	15 A max (645 W max)
Maximum load speakers:	max. 15 speakers ACTIVO S,L,XL
Protections:	1 on output signal, 1 on polarity inversion, 1 on short circuit
Anti-bump circuit:	1 in ignition and 1 in shutdown
Ignition:	with soft start
Bandwidth:	50 ÷ 18000 Hz
Amplifier Harmonic Distortion:	<0.1%
Cooling:	forced circulation by fan
Voltage regulation:	local in linear technology
Input power:	230Vac
Input audio signal:	0.775mv balanced line.
Weight:	8,50 Kg
Dimensions:	Standard rack 2 units (HxWxD) 88x482x300mm

Power supply dedicated with ONE technology.

It powers the speakers of VERTICAL ACTIVO series

It has the task of supplying and distributing the audio signal to all the speakers in the system.

Features can be changed without notice

VERTICAL ACTIVO FOCUS



Technical features VERTICAL ACTIVO FOCUS speakers

Tecnology:	DSP and ONE-PoS
DSP:	on board 28/56 bit – fs 48KHz
Beam control:	250-18000Hz
Acoustic beam distance:	controlled up to 20/22 meters
Use distance for short message:	intelligibility up to 30 meters
Constant use distance:	intelligibility 20/22 meters
Pointing angles:	0° -1° -2° -3° -4° -5° -6° -7° -8° -9° -10°
Integrated amplifiers:	4 class D
Power on each amplifier:	50W RMS (100W peak) of 8 Ohm
Protections:	1 on the input signal, 1 of reverse polarity 1 of short-circuiting
Anti-bump circuit:	1 switching on and 1 switching off
Board bandwidth:	80 - 18000Hz
S/N Ratio:	better than 98dB; distortion <0,3%
Cooling:	integral natural circulation
Input power:	43V DC
Input signal:	ONE enmux
Power:	specific power supply ALL-ONE with ONE-PoS Technology
Maximum consumption:	2500mA
Voltage regulation:	local linear technology
Weight:	10,5Kg
Dimension:	(HxWxD) 1606x100x50mm

Features can be changed without notice



VERTICAL ACTIVO S L XL



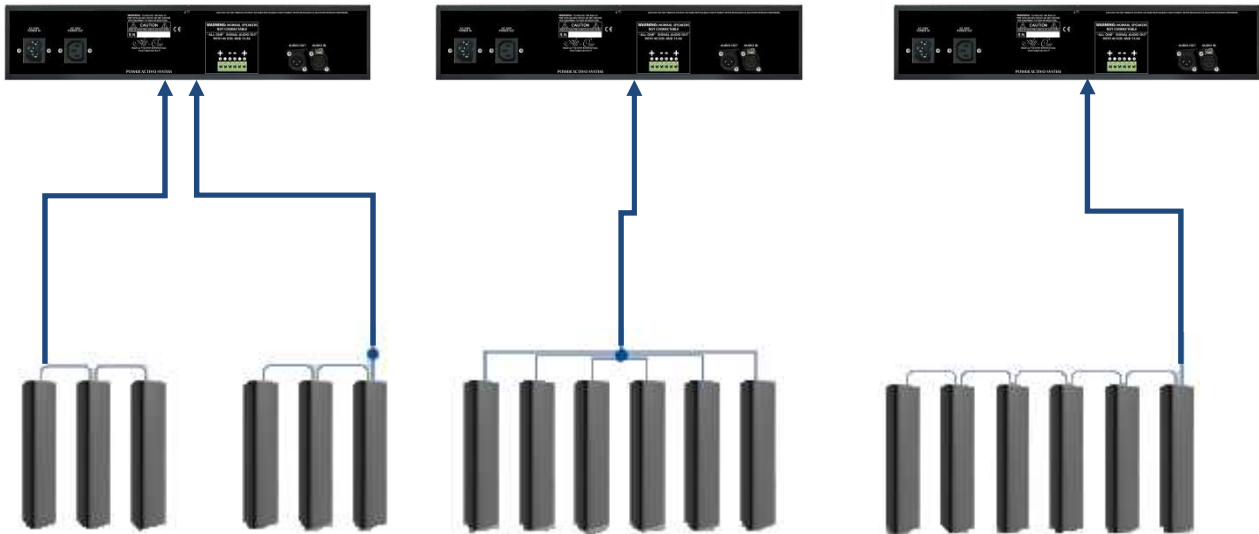
Technical features VERTICAL ACTIVO S-L-XL speakers

Technology:	DSP and ONE-PoS
DSP:	on board 28/56 bit - fs 48KHz
Output power:	35W RMS (65W peak) to 8 Ohms
Protections:	1 on input signal, 1 on reverse polarity 1 on short circuit
Anti-bump circuit:	1 in ignition and 1 in shutdown
Equalization:	4 Preset equalization Flat, Voice, Ambient and Focus
Board bandwidth:	50-18000Hz
S/N ratio:	better than 98 dB; distortion <0.3%
Cooling:	integral natural circulation
Input power:	43V DC
Input signal:	ONE enmux
Power:	dedicated ALLONE power supply with ONE-PoS technology
Maximum consumption:	900mA
Voltage regulation:	local in linear technology
Activo XL weight:	8,50Kg
Active L Weight:	6,90Kg
Active S Weight:	3,50 Kg
Active XL dimension:	(HxWxD) 1314x100x50mm
Active L dimension:	(HxWxD) 1037x100x50mm
Active S dimension:	(HxWxD) 560x100x50mm

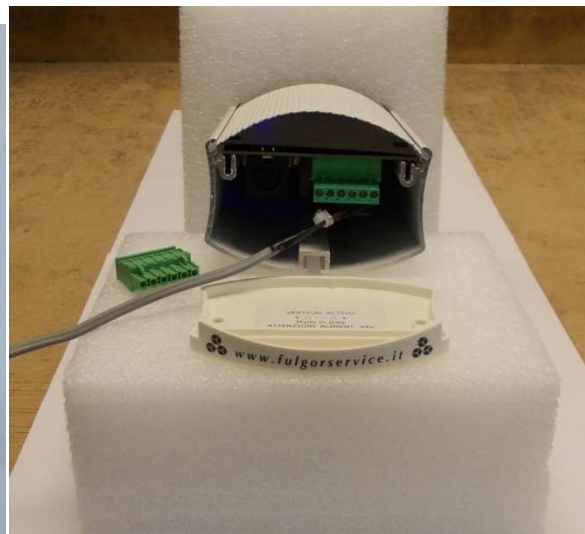
Features can be changed without notice

7

POSSIBLE CONNECTIONS



It is possible to connect the speakers in parallel, in any combination of the above three schemes.

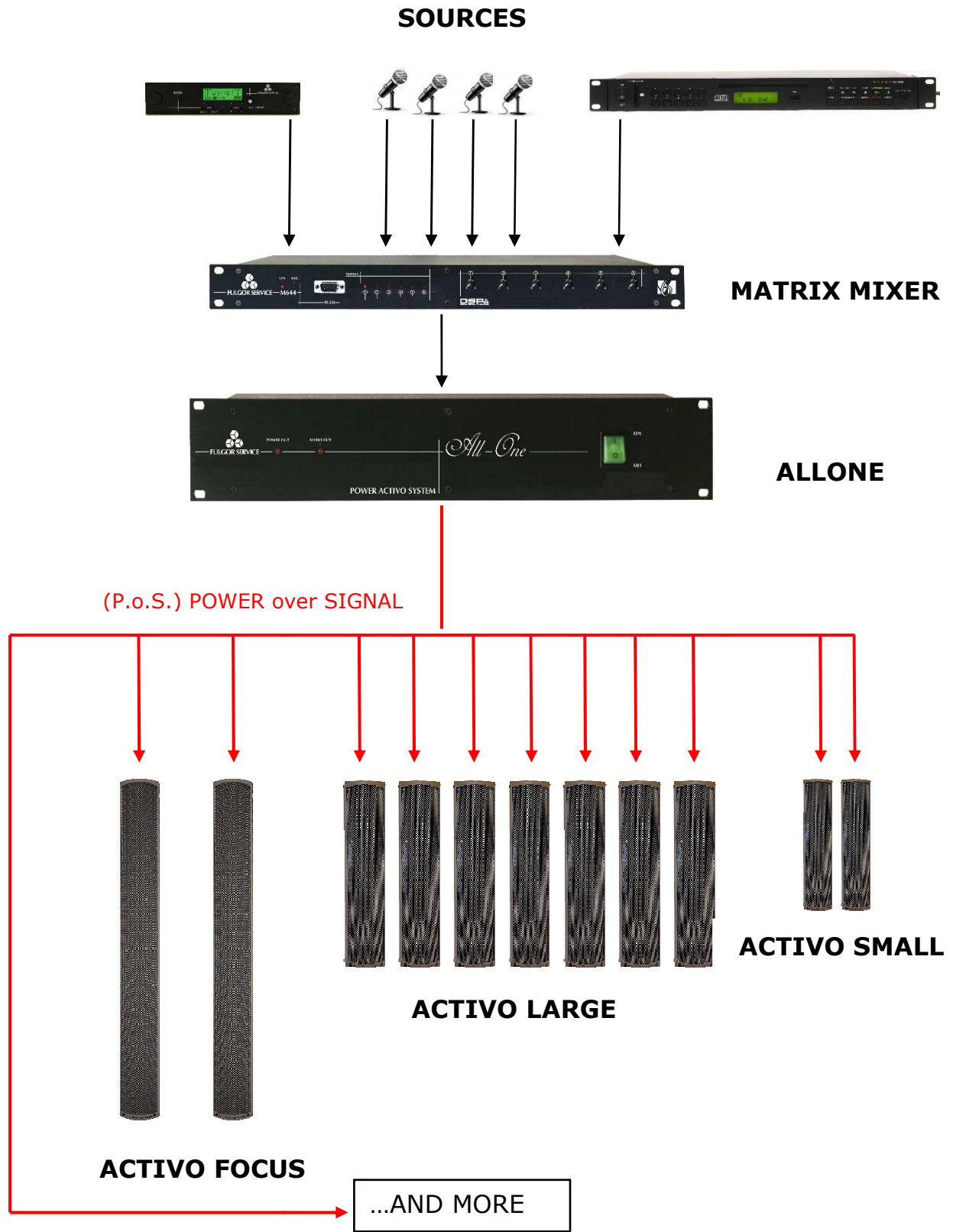


Hereunder it is shown the absorption of the various speakers Activo series.
In this way you can easily make a quick calculation of how many speakers can support an ALL-ONE.
The whole can vary according to the length of cable used in the installation.

ALLONE	delivers	MAX 15A
ACTIVO XL-L-S	absorbs	MAX 900mA
ACTIVO FOCUS	absorbs	MAX 2500Ma

Features can be changed without notice

ACTIVO SYSTEM BLOCK DIAGRAM EXAMPLE

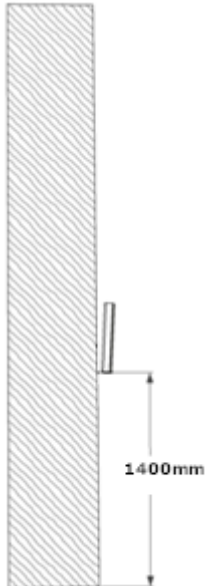


Features can be changed without notice

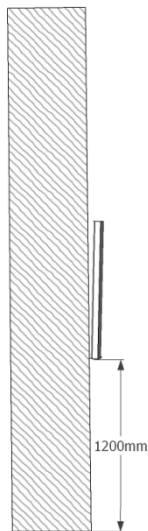
HEIGHT

INDICATIVE HEIGHT WHICH SHOULD BE INSTALLED THE VERTICAL ACTIVO PLAN FROM THE LISTENER

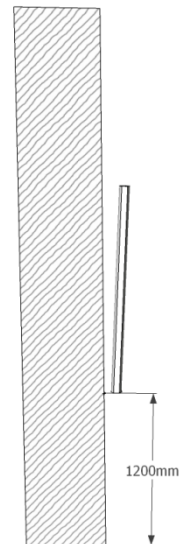
ACTIVO S



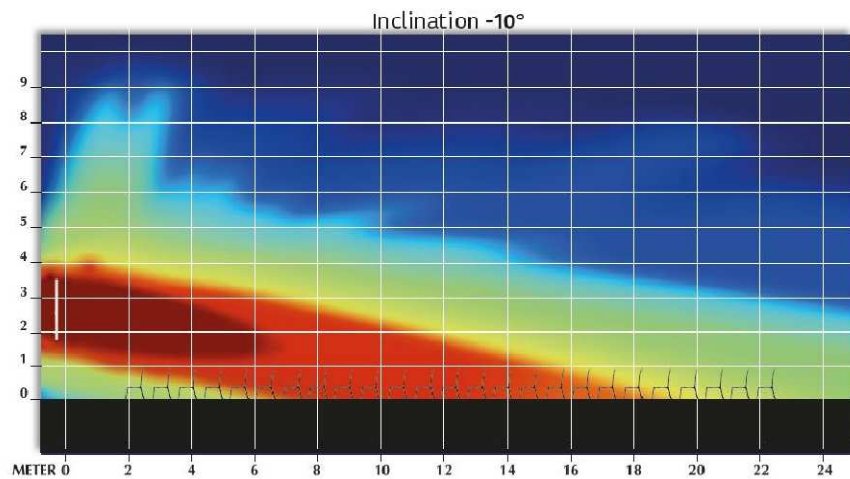
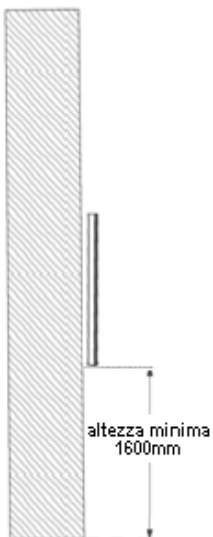
ACTIVO L



ACTIVO XL



FOCUS

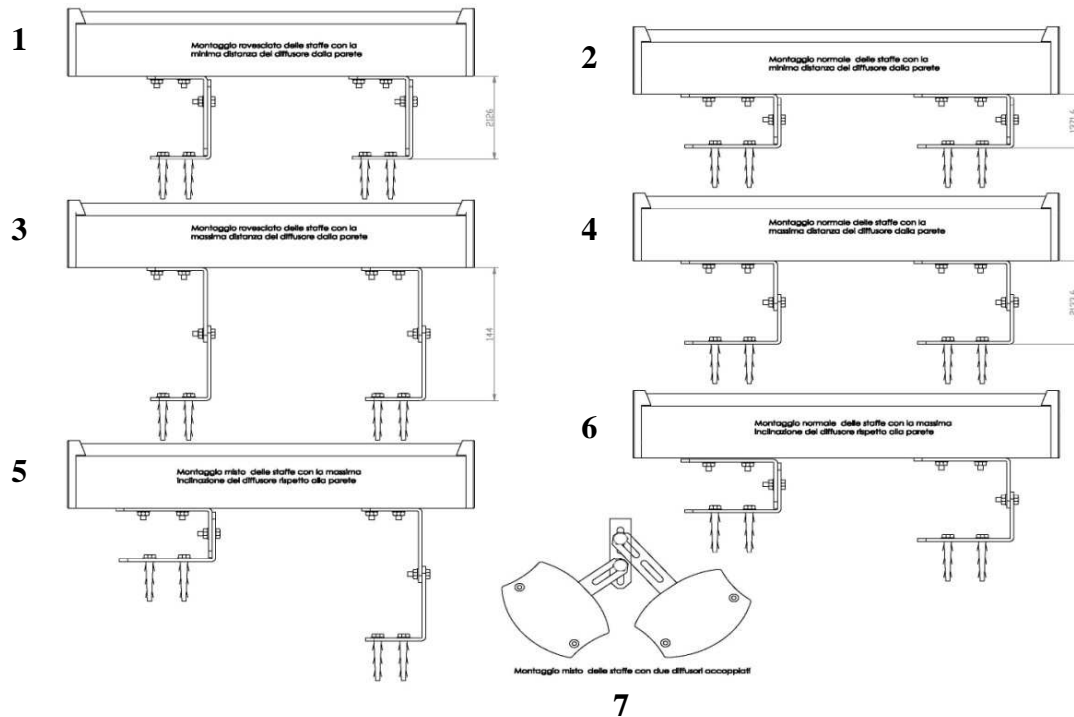


The installation height of the FOCUS can vary since it is possible to direct the sound "beam" with an inclination from 0 ° to -10 °. The minimum installation is 1.6 meters from the ground, but therefore it be increased according to the needs.

Features can be changed without notice

10

MOUNTING



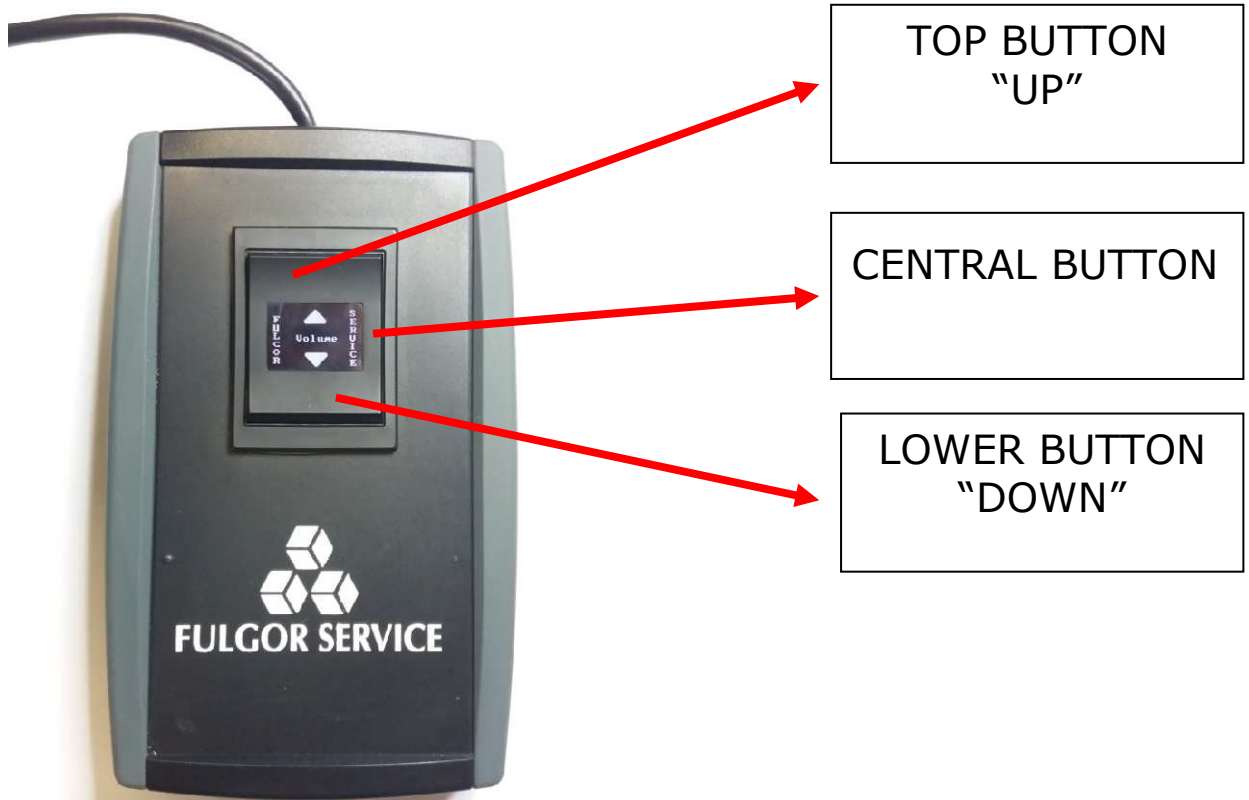
At installation various options are available to optimize the distance SPEAKER / WALL as needed.

- 1. Inverted bracket mounting with the minimum distance of the speaker from the wall.**
- 2. Normal mounting of the brackets with the minimum distance of the speaker from the wall.**
- 3. Inverted bracket mounting with the maximum distance of the speaker from the wall.**
- 4. Normal mounting of the brackets with the maximum distance of the speaker from the wall.**
- 5. Mixed mounting of the brackets with the maximum inclination of the speaker over the wall.**
- 6. Normal mounting of brackets with the maximum inclination of the speaker respect to the wall.**
- 7. Mixed mounting of the brackets with two paired speakers.**

Features can be changed without notice

CONTROLLER

The multifunction display supplied with the controller includes 3 keys (top key, center key, lower key).



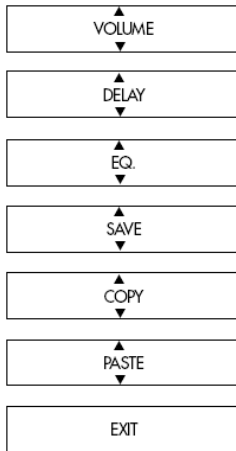
The controller is powered via the speaker boards of the ACTIVO line simply by connecting the controller cable that ends with the DIN 5-pole to the appropriate socket on the DIGITAL ACTIVO or FOCUS LOGIC boards. Once the plug is inserted, the controller display lights up with the "FULGOR SERVICE" welcome message and at the same time the blue LED of the DIGITAL ACTIVO or FOCUS LOGIC is switched off.

Features can be changed without notice

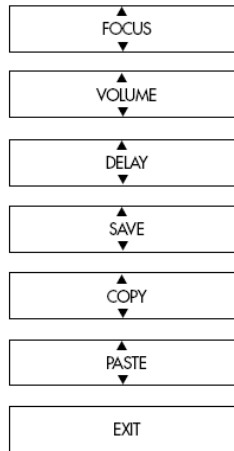
12

CONTROLLER MENU

Menu Vertical Activo



Menu Vertical Focus



- 1 FOCUS: Allows you to tilt the beam from 0° to -10°
- 2 VOLUME: Allows you to change the volume from -20dB to 6dB
- 3 DELAY: Allows you to set the delay from one column to another to avoid overlapping, adjustable from 0 to 60 meters
- 4 EQ: Has 4 presets:
 - Eq. ambiente (suitable for music in a reverberating environment)
 - Eq. voce (suitable for voice in a normal reverberating environment)
 - Eq. flat (flat response along the audio band)
 - Eq. focus (suitable for working with Focus)
- 5 SAVE: Save changes and settings
- 6 COPY: Copy a speaker's setting
- 7 PASTE: Paste the previously copied settings
- 8 EXIT: Turns off the device

Note: After switching on the device, pressing the central button you enter in the configuration of the single parameter and the command must be confirmed

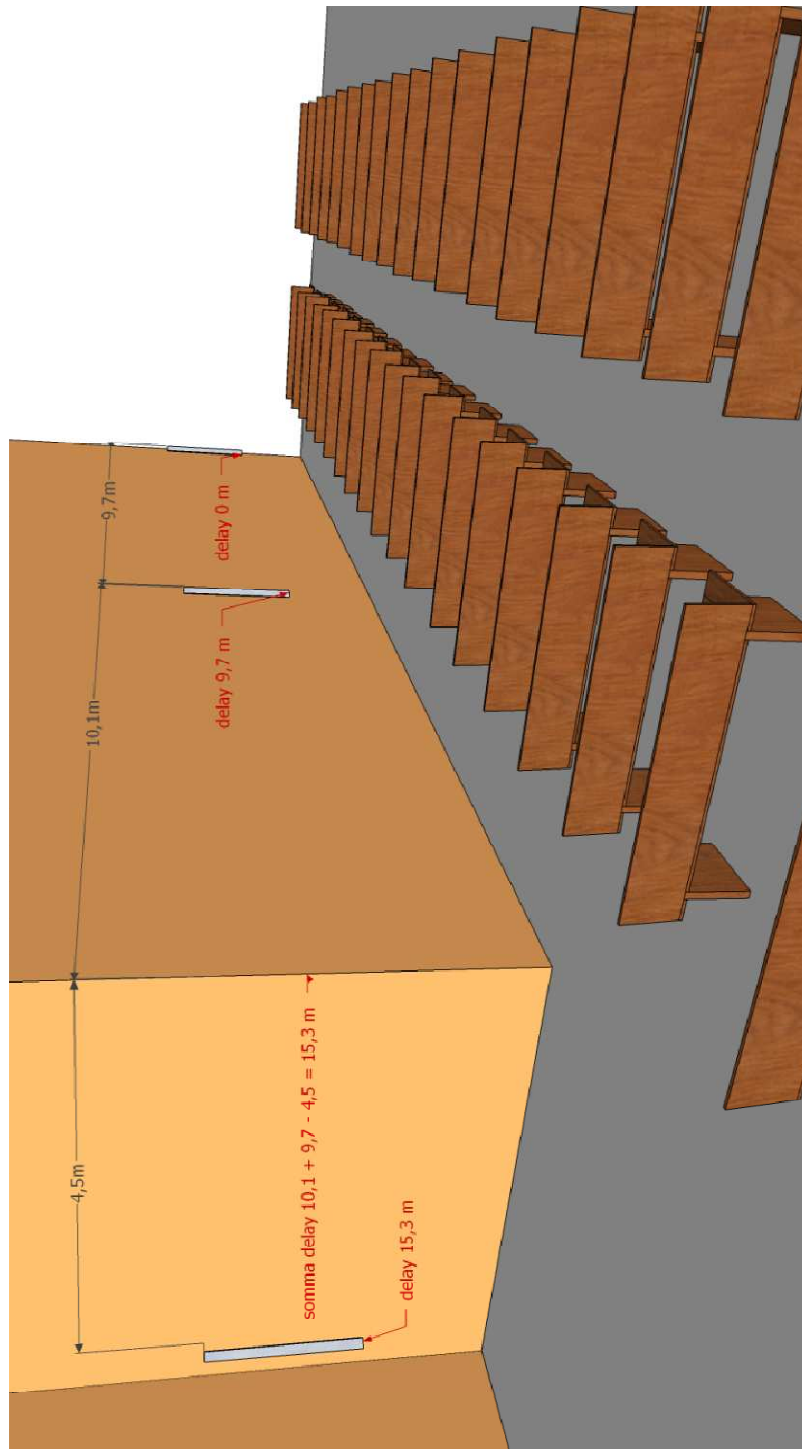
CORRECT WAY TO OPERATE:

- 1 Connect the Controller to the Vertical Activo or Focus, which must have been previously switched on
- 2 Change the desired parameters using the 3 buttons on the controller
- 3 Press the DOWN key until you reach SAVE menu and save the configuration
- 4 If necessary, press the DOWN key until you reach the COPY menu and copy
- 5 Press the DOWN key until you reach the EXIT menu to disconnect properly
- 6 Switch to another Vertical Activo or Focus and proceed from step 1 onward or choose PASTE and then SAVE and EXIT

WARNING: Never disconnect the controller from the speaker during the process, but only by the correct procedure, as previously mentioned at step 5.
It's not possible COPY and PASTE from Digital Activo to Focus Logic and viceversa.

Features can be changed without notice

EXAMPLE OF USING THE DELAY



Features can be changed without notice

Type of procedure for the installation of Active One System (simplified procedure).

LINE CHECK

1. Verify that the 2-wires line has a section of at least 1 mmsq. and it is in good condition.
2. Check that there are no improper junctions and / or unreliable contacts along the line.
3. Verify that no other user are connected on the same line (passive speakers with constant or 100V impedance).
4. Verify that the line is "open" when all speakers are disconnected (endless resistance).
5. Check the phase of the line and possibly distinguish the positive pole from the negative pole.
6. Connect and power ALLONE.
7. Verify that for each point there is a 43V DC power supply and at the nearest point/points there are at least 41V DC.
8. Disconnect all and connect all VERTICAL ACTIVO.
9. Power again and check that blue LED (both ALLONE and ACTIVO and FOCUS) light.

FIRST SET-UP (CONTROLLER required)

1. Adjust the volume of each point using the CONTROLLER until it reaches the required level by using a reference note source.
2. Adjust the delay (see picture example) taking in consideration the shape of the structure where the speakers are installed.
3. Adjust the equalizer filter, if necessary.
4. If there are loudspeakers on the same longitudinal axis, use the COPY&PASTE function of the CONTROLLER.
5. After making the various changes, select the SAVE command from the menu to save changes.
6. To disconnect properly, select the command EXIT from the menu on the CONTROLLER.

ENJOY SETTING ...

WARRANTY CERTIFICATE

Dear Customer,

We are pleased to inform you that it has been transposed into Italian law, through Legislative Decree no. 24 of 2 February 2002, a Community directive on sales and consumer protection.

This Directive makes a distinction between consumer goods for private use and those used exclusively in the professional field.

In particular, the new standard applies only to consumer goods for private use, and consequently consumer goods used in the course of their professional or business activities will be guaranteed according to the normal general sales rules provided by the civil code.

In both cases, FULGOR SERVICE, by virtue of the quality of its products, applies a 24 month warranty period.

Warranty management

As Directive 1999/44 / EC represents a high level of consumer protection, the decree governs certain aspects of sales contracts concluded between **the consumer and the seller** and guarantees relating to the consumer goods sold.

For the purpose of the Legislative Decree, it is understood that:

For Consumers any natural person who purchases consumer goods for use solely in the private sector and hence outside his or her professional or business activity;

For Seller, any natural or legal person, whether public or private, who uses one of the above-mentioned contracts in the course of his or her business or professional activity;

For the sake of consumption any mobile goods, with express exclusion of the forced sale of goods; Water and gas, when not packaged for sale in a volumetric volume or in a specified quantity.

Consumers are entitled to rights under applicable national legislation governing the sale of consumer goods. The warranty does not affect these rights.

The warranty is valid in all EU Member States.

According to the new legislation, any claim by the consumer to the warranty must be submitted to the retailer and / or point of sale at which the product was purchased.

FULGOR SERVICE has also set up a toll-free number 800-804067. By calling this number we will be able to collect your reports regarding warranty issues and possibly arrange direct return / repair methods.

The number is active from Monday to Friday (excluding holidays), from 8am to 12.30pm and from 14am to 5pm in the winter months and from 7.30am to 12.30pm during the summer months (July and August)

GUARANTEE CLAUSES

The product is guaranteed for a period of 24 (twenty-four) months from the date of purchase. Warranty means repairing or replacing equipment that is defective in the sales contract (and generally product information), the warranty is free of charge and excludes shipping costs for the Consumer.

The warranty is valid only if this warranty certificate, completed in all its parts by the buyer and accompanied by a valid proof of purchase (copy of the invoice or tax receipt for the consumer), is presented to the Of the request for intervention. The non-compliant product must be returned to the original packaging, complete with all accessories.

The serial number on the product must not be erased or made unreadable, since the warranty is invalid.

The warranty does not apply in the case of damage caused by improper use, use or installation that does not comply with the instructions given, tampering, product or serial numbering, accidental or negligent damage to the buyer with particular reference to the outside parts. It also does not apply in case of faults due to connections of the device at voltages other than those indicated or sudden changes in the mains voltage to which the appliance is connected, as well as in case of faults caused by liquid infiltration, fire, discharges Inductive / electrostatic or discharge caused by lightning, overvoltages or other phenomena outside the device.

Warranty includes parts subject to wear after use, batteries when supplied, connectors and connectors, connectors, external parts and plastic supports, which do not have manufacturing defects.

They are excluded from the warranty: periodic checks, software updates, settings, maintenance.

After the warranty period has expired, the assistance will be charged by charging the replaced parts, labor and transport costs, according to the rates in force.
The guarantee is provided by: FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola - La Spezia.
For each dispute, the Forum of La Spezia will have sole jurisdiction.

CONSUMER DATA

Fill in every part and join the product. In the case of warranty, please always enclose a copy of the valid **proof of purchase** and send the product to the following address: FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola La Spezia or fax 01 87 952326.

Surname _____	Name _____	
Parish/Institute Religious /other _____		
Via _____		
Cap _____	City _____	Prov _____
Tax code and VAT _____		

PRODUCT DATA

MODEL _____	SERIAL NUMBER _____	FREQ.MHz _____
DATE OF PURCHASE ___ / ___ / ___	N.INVOICE _____	RESELLER _____

Information pursuant to Legislative Decree no. 196 of 2003 ("Personal Data Protection Code") Dear Customer,

We inform you that FULGOR SERVICE, pursuant to art. 13 of Legislative Decree 196/2003, will process your data provided by you in compliance with the legislation on the protection of the processing of personal data. The disclosure of the data is optional but any refusal to provide them will result in the

Features can be changed without notice

17

impossibility of performing the obligations arising out of the repair service of which you are a party (Article 13, paragraph 1, letter C, Legislative Decree 196 of 2003). The personal data you provide is collected by electronic means and processed, including by means of electronic means, directly and / or through delegated third parties (repair and delivery company) for the following purposes:

- **purposes related to the execution of the service and the management of the repair and return of the products sent for repair.**

In any case, your data will not be disclosed (if not to a repair or redemption company) or sold to third parties. Within FULGOR SERVICE the data can only be acquired by persons specifically assigned to the Information Systems, Administration and Accounting, Customer Service departments.

According to art. 7 of Legislative Decree 196/2003 You have the right, at any time, to obtain from the Data Manager the information on the processing of your data, the manner and purpose and the logic applied to it.

The Data Controller is the legal representative of FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola - La Spezia. www.fulgorservice.it

Date _____

signature_____

Stamp and signature of the reseller



The symbol of a jar of a trash trimmed by a cross indicates that the product should not be disposed of with other household waste at the end of the life cycle, but be collected separately. In order to avoid any damage to the environment and human health due to the presence of hazardous substances, you are encouraged to give such waste to the distributor / retailer when purchasing a new product or by handing over to designated collection centers By local authorities. Penalties are provided for abusive disposal of these products.

V. 012018

Features can be changed without notice

18

