



MATRIX

model: AF62

**STEREO BLUETOOTH
WIRELESS HEADPHONES
WITH BUILT-IN MICROPHONE**

part of the  series

user manual

www.meelec.com

MATRIX

Thank you for your purchase of the
**MEElectronics Air-Fi Matrix AF62
Stereo Bluetooth Wireless Headphones
with Microphone**



Please read this manual in its entirety.
If you have any issues after reading the manual

please contact
MEElectronics customer service at

customerservice@meelec.com
or (626) 965-1008 x31

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Package Contents



MATRIX
Stereo
Bluetooth
Wireless
Headphones



Mini-USB
Charging
Cable



Audio
Cable



Form-fitting
Protective
Case



User
Manual

Note: An online version of this manual is available on meelec.com

Bluetooth and NFC Information

Bluetooth is a short-distance two-way wireless communication technology capable of transmitting data, commands, and audio between devices. The Matrix can connect with many devices such as mobile phones, tablets, PDAs, computers, media players, and more through a process called pairing. Before you can use your Matrix with your device they will need to be paired.



The Matrix is equipped with NFC (Near Field Communication) which can pair the Matrix to a NFC enabled device by placing the two within close proximity.

Warning



Turn down the volume prior to using the headphones; adjust the volume to the desired level once they are connected. Do not use headphones at high volumes for extended periods of time as doing so will result in permanent hearing damage. It is advised you keep volume levels moderate to low at all times for your safety, even when loud background noise is present.

Please visit www.osha.gov for more info.

Do not use while driving a car, cycling, operating machinery, or performing other activities that require hearing surrounding sounds or are against local laws.

FCC Warning



Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Safety and Care

- a) When not in use, power the device off and store it in the included protective case.
- b) Clean with a soft, debris-free cloth. If necessary dampen the cloth with a diluted soap water solution. Never use chemical cleaners on the headphone. Leather conditioner and cleaner can be used on the ear pads.
- c) This headphone was not designed for use while driving.
- d) Do not use your wireless headset around flammable gases as fire or explosion may occur.
- e) Keep the device and packaging out of the reach of children.
- f) There are no user replaceable/reparable parts in the headset. Disassembling it will void your warranty.
- g) If the device comes in contact with liquids, quickly wipe away. If submersed in water, do not turn the device on until completely dried.
Note: liquid submersion voids the warranty.
- h) Avoid storage in extreme temperatures (45°C/113°F and above, including direct sunlight or -10°C/14°F below) as the service life of the battery will be decreased.

Product Overview

MATRIX

AF62 Stereo Bluetooth
Wireless Headphones



Left Ear Cup

- A microphone
- B LED indicator
- C power/call button 
- D volume down ∇ -
- E volume up ∇ +
- F 3.5mm audio jack



Right Ear Cup

- G mini-USB port for charging
- H next track 
- I play/pause button 
- J previous track 

Charging

*** You must completely charge the headset before the first use ***

- Connect a mini USB charging cable to a powered USB source such as a wall charger, powered on computer, USB hub connected to a powered on computer, or car USB port.
- While not required, it is recommended to turn the Matrix off before charging. See note below.
- Connect the charging cable to the mini USB jack on the right ear cup.
- The bright red LED indicator should light solid and stay on while charging. Charge time is typically between 3-6 hours for the first charge and 2-3 hours for subsequent charges depending on the charging power.
- When the battery is fully charged the bright red LED indicator will turn off.

Note: Bluetooth can be active when the unit is charging; however, depending on the power output of the charger, charging may be very slow. The Matrix will work in wired mode via the audio jack while charging.



iDevices such as the iPhone, iPad, and iPod Touch will display a battery indicator when the Matrix is connected.

Turning On and Off

- a) To turn on, press and hold the Power/Call  button for approximately 3 seconds. The Matrix will say “power on” and the blue indicator light will flash once every second to show the power is on.
- b) To turn off, press and hold the Power/Call  button for approximately 2 seconds when not connected and 5 seconds when connected.

Pairing with Bluetooth Devices

*** It is only necessary to pair your Matrix once with each device ***

iPhone, iPad, and iPod Touch

- a) On your iPhone/iPad/iPod Touch, go to *Settings*
- b) Select *Bluetooth* (on devices with iOS 5.1.1 or older, Bluetooth is under the *General* menu)
- c) Make sure the Matrix is off and within 1 meter of your device
- d) On your iPhone/iPad/iPod Touch make sure Bluetooth is turned on
- e) Initiate pairing mode by pressing the Power/Call button for 6 seconds, until you hear “ready to pair.”
(Note: the first time you use your Matrix it will automatically enter pairing mode when powered on.)

The Matrix will offer voice prompts to assist in pairing in a repeating cycle until it is either connected or powered off.

(Note: Pairing mode will be active for 5 minutes.

If no devices are paired within that time, the Matrix will return to standby mode.)

- f) Wait until you see “AF62” in the Devices section of the screen; it should show “Not Paired” as the status
- g) Select on “AF62” to pair and connect your iPhone/iPad/iPod Touch to the Matrix
- h) The Matrix will say “pairing completed” once pairing is complete. “AF62” should show “connected” on your device; the blue LED will be on continuously when connected

If pairing fails, please repeat steps c) through h) above

Pairing (Continued)

Android Phones and Tablets

- a) On your Android phone or tablet, navigate to the *Settings* menu
- b) Select *Wireless & Networks*
- c) Make sure the Matrix is off and within 1 meter of your device
- d) Make sure *Bluetooth* is enabled on your device
- e) Initiate pairing mode by pressing the Power/Call button for 6 seconds, until you hear “ready to pair.”
(Note: The first time you use your Matrix it will automatically enter pairing mode when powered on.)

The Matrix will offer voice prompts to assist in pairing in a repeating cycle until it is either connected or powered off.
(Note: Pairing mode will be active for 5 minutes. If no devices are paired within that time, the Matrix will return to standby mode.)

- f) Select *Bluetooth Settings*
- g) “AF62” should appear under devices; If it is not automatically found, select *Scan for devices*. Once it has been found, select “AF62” in the list of Bluetooth devices to pair and connect
- h) The Matrix will say “pairing completed” once pairing is complete. “AF62” should show “connected” on your device; the blue LED will be on continuously when connected

If pairing fails, please repeat steps c) through h) above

Pairing (Continued)

Windows 7 Computers and Laptops

Note: The Windows 7 operating system does not have built-in Bluetooth drivers; drivers are provided by the Bluetooth transmitter manufacturer. Actual pairing and connecting process can vary depending on the Bluetooth device drivers and computer configuration.

- a) Press on the Bluetooth icon in the notification area of your taskbar and select *Add a Device*
- b) The Add a device popup window will appear with "Select a device to add to this computer"
- c) Make sure the Matrix is off and within 1 meter of your device
- d) Initiate pairing mode by pressing the Power/Call button for 6 seconds, until you hear "ready to pair."
(Note: the first time you use your Matrix it will automatically enter pairing mode when powered on.)

The Matrix will offer voice prompts to assist in pairing in a repeating cycle until it is either connected or powered off.
(Note: Pairing mode will be active for 5 minutes. If no devices are paired within that time, the Matrix will return to standby mode.)

- e) Wait until you see either "AF62" or "Bluetooth headset" in the *Searching for devices* area
- f) Select "AF62" or "Bluetooth headset" and press the *Next* button; the *Add a device* popup will display "Connecting with this device"
- g) When the computer is finished pairing with the Matrix headset, the *Add a device* popup will display "This device has been successfully added to your computer"
- h) On some computers, it can take a few minutes for the device driver software to install completely, and a "Your device is ready to use" notification will appear in the notification area; other computers will not show this notification

If pairing is successful, continue to the next page.
If pairing fails, please repeat steps a) through h) above.

Pairing (Continued)

Windows 7 Computers and Laptops (Continued)

Now the Matrix must be configured for audio and microphone use (enable Bluetooth audio).

Note: Audio device names can vary depending on the Bluetooth device drivers and computer configuration.

- i) Right click on the speaker in your notification area, or go to Start → Control Panel → Hardware and Sound → Manage Audio Devices
- j) A popup window with “Sound” at the top should appear with Playback tab selected; “Bluetooth Hands-free Audio” and “Bluetooth Audio Render” should both appear in the list of audio devices
- k) Select “Bluetooth Hands-free Audio” for headset use and “Bluetooth Audio Render” for stereo audio streaming
- l) Press the *Set Default* button
- m) Press the *Apply* button
- n) Select the *Recording* tab
- o) Select “Bluetooth Audio Input Device” from the list of recording devices
- p) Press the *Set Default* button
- q) Press the *OK* button

Note: It may be necessary to repeat the above steps every time the Matrix is connected.

Pairing (Continued)

Other Phones, Tablets, and Devices

- a) Please refer to your device manual for instructions on how to pair Bluetooth devices
- b) On your device, turn Bluetooth on and go to the appropriate pairing window
- c) Make sure the Matrix is off and within 1 meter of your device
- d) Make sure Bluetooth is enabled on your device and you are in the Bluetooth screen
- e) Initiate pairing mode by pressing the Power/Call button for 6 seconds, until you hear “ready to pair.”
(Note: the first time you use your Matrix it will automatically enter pairing mode when powered on.)

The Matrix will offer voice prompts to assist in pairing in a repeating cycle until it is either connected or powered off.
(Note: Pairing mode will be active for 5 minutes. If no devices are paired within that time, the Matrix will return to standby mode.)

- f) Wait until you see “AF62” in the list of Bluetooth devices
- g) Select “AF62” to pair and connect your device to the Matrix; if your device asks for a pin, enter “0000”
- h) The Matrix will say “pairing completed” once pairing is complete. “AF62” may show “connected” on your device; the blue LED will be on continuously when connected

If pairing fails after several tries, please refer to the Bluetooth device’s user manual for further information.

For additional information on Bluetooth and pairing videos,
please visit meelec.com/bluetooth.

Pairing with Bluetooth Devices with NFC

- a) Make sure your device has both Bluetooth and NFC turned on
- b) Place the Matrix next to the NFC device to connect
- c) Some devices display a message for permission to pair and connect. Allow the devices to pair and connect.
- d) Matrix will automatically pair and connect

Connecting to Paired Devices

*** The Matrix must have been paired with your device before it will connect. Pairing only needs to be done before the first use. ***

When the Matrix is turned on and not in pairing mode, it should connect to last connected device automatically. If the last connected device is not within range or does not have Bluetooth on, the Matrix will connect to other paired devices in the order of last connection.

If the Matrix does not connect and remains in standby mode, a short press of the Play/Pause ►/|| button will connect to the last connected device with Bluetooth on and within range.

If two or more devices have been paired, have Bluetooth on, and are within range, the Matrix will connect with the last two devices previously connected.

If it does not connect automatically, open the Bluetooth menu of your device and select "AF62" to pair with it.

Notes

- On some Bluetooth devices, such as some Nokia and Blackberry cell phones, the settings must allow for automatic connection. Please refer to your devices manual for further information.
- On some PC and Mac computers you will need to manually enable Bluetooth audio every time you connect.

Multipoint Functionality

The Matrix has Multipoint functionality, which allows two Bluetooth devices to simultaneously connect. Devices are identified by the Matrix as “phone 1” and “phone 2”. Multipoint use will be possible after at least two devices have been paired with the Matrix.

The device that is connected first will be able to stream stereo audio (A2DP) and utilize headset functionality (HSP) while the device that is connected second will utilize headset functionality (HSP) only. Once a device is connected, the functionality will not change. To change functionality, disconnect and reconnect your devices in the desired order.

See the **Controlling Phone Calls** section for functionality and controls.

Controlling Volume

In Playback or Standby Mode:

A single press of the Volume up $V+$ or Volume down $V-$ button will increase or decrease the volume on the Matrix by one step. Pressing and holding the Volume up $V+$ or Volume down $V-$ button will continue to adjust the volume until maximum or minimum volume is reached. There are 16 volume steps. When the volume reaches the maximum or minimum levels, the Matrix will say “volume highest” or “volume lowest”, respectively.

Overall volume is dependent on both the Matrix volume and the volume on your device. If the volume is not loud enough, try to increase the volume on your device. Adjusting volume on both the Matrix and your device, you will be able to achieve a more precise volume level.

Adjusting the Matrix volume will change the volume level of voice commands and tones.

During a Call:

The Volume up $V+$ and Volume down $V-$ buttons will control the volume on your phone.

Controlling Phone Calls

Status	Function	Operation
Incoming call	Answer a call	Single press the Power/Call  button
	Reject a call	Press and hold the Power/Call  button for 2 seconds
Standby mode (phone connected)	Redial the last number ²	Press and hold the Power/Call  button for 2 seconds
Call in progress	Increase volume ¹	Single press or press and hold the Volume Up  button
	Decrease volume ¹	Single press or press and hold the Volume Down  button
	End a call	Single press the Power/Call  button
Call in progress, phone handset active	Switch from phone handset to Matrix	Single press the Power/Call  button
Call in progress, second incoming call	Answer new call and end current call	Single press the Power/Call  button
	Answer new call and place the current call on hold	Press and hold the Power/Call  button for 2 seconds. There will be a single tone to indicate the call has been answered.
One call active, one on hold	Switch to call on hold	Press and hold the Power/Call  button for 2 seconds. There will be a single tone to indicate the calls have been switched.
	End current call and switch to call on hold	Single press the Power/Call  button

¹ Volume will be adjusted on the phone, not the Matrix.

² Not all devices support this functionality.

For more information, refer to the user manual for your device.

Notes:

If you answer a call from your phone instead of the headset, most phones will activate the phone handset, not the Matrix. Single press the Power/call button to switch the phone audio to the Matrix.

Controlling Phone Calls (Cont.)

Additional Functionality: Multipoint - Two Phones Connected

Note: The Matrix supports a maximum of 2 simultaneous phone calls. Answering an additional call will hang up the active call.

Status	Function	Operation
One call active, incoming call from another phone	Answer new call and end current call	Single press the Power/call  button
	Answer new call and place the current call on hold	Press and hold the Power/call  button for 2 seconds. There will be a single tone to indicate the call has been answered.
	Reject incoming call	Press and hold the Power/call  button for 3 seconds (1 second after the single tone).
	Switch to call on hold	Press and hold the Power/call  button for 2 seconds. There will be a single tone to indicate the calls have been switched.
	End current call and switch to call on hold	Single press the Power/call  button

Controlling Media Playback

Go to the music player on the connected device.

Status	Function	Operation
No media playing ¹	Play media	Press the Play/Pause  button
Media playing	Pause media playback	Press the Play/Pause  button
Either media playing or stopped	Skip to next track	Press the Next  button
	Restart the track/ previous track	Press the Previous  button

¹ You may need to focus on the media player application for initial playback to start

Notes:

- If you answer or make a call while listening to media, the music will pause until you end the call
- Volume is controlled both on the Matrix and the attached device
- When two devices are connected, media playback is supported for the device that was connected first

Using as a Wired Headphone

The Matrix comes with a 3.5mm audio jack on the back of the left ear cup and an audio cable for wired use. This is convenient for use where Bluetooth isn't allowed, such as on an airplane, when the battery is depleted, or just to save battery power. It is also useful if you want to listen to media from a different device that doesn't have Bluetooth or isn't paired.

Connect one side of the audio cable to the Matrix and the other side to a 3.5mm headphone jack on the device.

Using wired audio and Bluetooth simultaneously:

The Matrix can be used to listen to wired audio while retaining a wireless connection with another device such as a phone.

When listening to wired audio and there is an incoming Bluetooth audio transmissions, such as an incoming phone call or media playback, the wired audio will partially mute in the left channel and completely mute in the right channel to allow for Bluetooth priority. Approximately 15 seconds after the last Bluetooth transmission has ended, the wired audio will resume.

Change Languages

The Matrix comes with 5 languages for voice prompts including English, which is the default, Chinese (Mandarin), Spanish, French, and German.

Follow the instructions below to enter the language selection menu.

- a) Press and hold the Volume Up v+ and Volume Down v- buttons simultaneously for 1-2 seconds while powering on the Matrix to enter the language menu.
- b) The Matrix will say “Power on. Ready to pair. This device supports multiple languages. Press Power/Call ⏻ button to confirm English.”

There will be prompts for additional languages as follows:
English, Chinese, Spanish, French, German.

- c) To select a language, single press the Power/Call ⏻ button when the Matrix is speaking that language. The Matrix will cycle through the languages continuously until one is selected.

Reset Factory Defaults

Resetting the Matrix to factory defaults will erase all pairing information and set the language back to the default setting of English.

Follow the instructions below:

- a) Press and hold the Volume up v+ and Volume down v- buttons simultaneously for 4 seconds while the Matrix is turned on until the Matrix says “power on. Ready to pair. Please connect with phone or computer.”
- b) The Matrix will continue to offer voice instructions until a device is paired.

For additional pairing instructions please see the pairing section of this manual.

Status, Button Functions, Light Patterns, and Sounds

Charging

Status	LED Indicator
Charging	Red LED on
Charging complete	Red LED off

Status Indicators and Button Functions

Status	Button Functions	LED Indicator	Sounds
Turn on	Press and hold the Power/Call  button for 3 seconds	Blue LED will flash for 2 seconds	Matrix will say "power on" (the first time you turn the Matrix on it will say "power on, thank you for buying this headset")
Turn off	Press and hold the Power/Call  button for 4 seconds	Red LED flash four times	Matrix will say "power off"
Turning on pairing mode	When off, press and hold Power/Call  button for 5 seconds	Blue LED will blink once per second	Matrix will say "ready to pair"
In pairing mode	N/A	Blue LED will blink once per second	Matrix will repeat the following pairing instructions until paired or until pairing mode is timed out in 5 minutes. "please connect with phone or computer," "go to phone or computer Bluetooth menu," "turn on Bluetooth; pin code is 0000."
Paired with device	N/A	N/A	Matrix will say "pairing complete" and will immediately connect
Turned on but not connected to any device	N/A	Blue LED will blink once per second	Two quick tones one second after "power on" message

Status, Button Functions, Light Patterns, and Sounds (Cont.)

Status Indicators and Button Functions

Status	Button Functions	LED Indicator	Sounds
Connected with a device	Matrix should automatically connect; if not single press the Power/Call  button	Blue LED will flash twice every 5 seconds	Matrix will say "phone 1 connected" ^a
While connected with a device	N/A	Blue LED lit solid	N/A
Disconnected from a device	N/A	The blue LED will change from solid to flashing every second if no devices are connected	Matrix will say "phone 1 disconnected" "
Increase Volume	Single press or press and hold the Volume up  button	N/A	The Matrix will beep with each volume level adjustment and say "volume highest" when maximum volume has been reached
Decrease Volume	Single press or press and hold the Volume down  button	N/A	The Matrix will beep with each volume level adjustment and say "volume lowest" when minimum volume has been reached
Play or pause media	Single press the  / Play/Pause button	N/A	N/A
Skip to next track	Press Next button 	N/A	N/A
Restart track or skip to previous track	Press Previous button 	N/A	N/A

^a Matrix will say either "phone 1" or "phone 2" depending on which device the operation is taking place on

Status, Button Functions, Light Patterns, and Sounds (Cont.)

Status Indicators and Button Functions (Cont.)

Status	Button Functions	LED Indicator	Sounds
Incoming call	N/A	Red LED will flash every second; blue LED will remain solid	Matrix will say "incoming call phone 1 ^a "
Answer incoming call	Single press the Power/Call  button	N/A	Matrix will say "call active phone 1 ^a "
Reject incoming call	Press and hold the Power/Call  button for 2 seconds	N/A	Matrix will say "call terminated phone 1 ^a "
Call in progress, answer incoming call and hang up current call	Single press the Power/Call  button	N/A	Matrix will say "call terminated phone 1 ^a " and then "call active phone 1 ^a "
End call	Single press the Power/Call  button	N/A	Matrix will say "call terminated phone 1 ^a "
Redial last phone number	Single press the Power/Call  button for 2 seconds	Red and blue LEDs flash every second	Matrix will say "call active phone 1 ^a " when call is connected
Low battery	N/A	Red LED flashes for 15 seconds	Short beep every 25 seconds

^a Matrix will say either "phone 1" or "phone 2" depending on which device the operation is taking place on

Specifications

Microphone Specifications	
Microphone Unit	6.5mm
Directivity	omnidirectional
S.P.L	-58±2dB
Impedance	≤2.2KΩ
Frequency Response	10Hz-20,000Hz
Operating Voltage	4.5V
Speaker Specifications	
Speaker diameter	40mm
Impedance	64Ω
Sensitivity	103±3dB at 1KHZ
Rated power	20mW
Maximum power	50mW
Frequency response	15Hz-20,000Hz
Power Specifications	
Battery type	Built-in 400mAh Lithium-polymer rechargeable battery
Charging connector type	Mini-USB
Run time	Up to 18 hours of talk or music playback time
Standby time	Up to 250 hours
Charging time	2 – 3 hours
Operating Conditions	
Operating temperature	-10 °C to 45 °C
Storage temperature	-25 °C to 60 °C

Troubleshooting

Issue	Resolution
Crackling noise, static, interference	Make sure you are within range of your Bluetooth-enabled device
No sound or low volume	Adjust the volume on your headset and device as both control the sound
Not charging	If using a wall charger, make sure it is plugged in to a powered outlet. If using a computer, make sure the computer is on and the USB port has power. If you are using a car USB port, make sure the car is on.
Won't pair	Make sure the Matrix is in pairing mode as indicated by red and blue LEDs flashing in an alternating manner
Won't connect	Make sure your Matrix is powered on, Bluetooth is enabled on your device, and it is within range. Make sure your device is not connected to any other Bluetooth headset. Make sure the Matrix is not connected to another device (two devices with Multipoint enabled). If connecting still fails, power off your Matrix and turn it back on. If problems persist, delete the device "AF62" and pair the Matrix again.
Won't control calls/media players	The Matrix headset is compatible with many Bluetooth versions, however not all versions of Bluetooth support these functions, and functionality is dependent upon the operating system of the device. Some functions, such as "Rejecting a call", "Redialing" or "Voice dialing" are only available if supported by your mobile phone. Please check the device manual for further information.
The tones and voice prompts are too quiet	Increase the volume on the Matrix and adjust the volume on your device to achieve the desired volume level. The tone and voice prompt volume levels will not change when adjusting the volume when a call is in progress.
The tones and voice prompts are too loud	Decrease the volume on the Matrix and adjust the volume on your device to achieve the desired volume level. The tone and voice prompt volume levels will not change when adjusting the volume when a call is in progress.
Won't turn on or turns on and then off	Charge your Matrix
The light is blinking red and there is a tone every 25 seconds	Charge your Matrix

NOTES

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