

# ARRAY 650

120W 6" OUTDOOR LOUDSPEAKER

USER MANUAL



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## INTRODUCTION

### Thank You For Purchasing A KT Product

KT Speakers features an outstanding combination of performance and value in each of our products. To ensure you get the most out of your new loudspeakers please take a moment to read this manual before you get started.

You can get a digital copy of this manual online. simply visit our site at [www.ktwaves.com](http://www.ktwaves.com)

### A Few Words About Your New Outdoor Speakers

KT Outdoor loudspeakers are designed to accurately reproduce high fidelity music in an outdoor environment. Ideally designed for background music and buisness place intergration.

High freuency response as required for outdoor scenerios with great bass response  
KT Outdoor Loudspeakers are IP66 waterproofed and are built to withstand the most rigorous weather and climate conditions.

Every exposed bolt is made of stainless steel and the aluminum grill is powder-coated to ensure endurance and fuctionality. The cabinet is made of a high-impact ABS polymer painted with UV protection industrial quality paint.

The primary components include a polypropylene driver with a butyl rubber surround and a Titanium dome tweeter that hold up under extreme temperature fluctuations.



## PRODUCT OVERVIEW



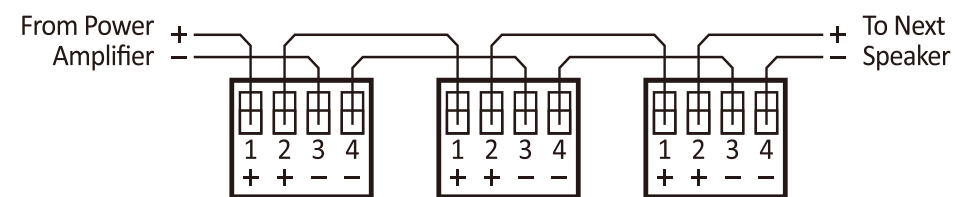
## AUDIO CONNECTIONS

### Speaker Connection

Remove about 8" of the cable jacket to expose the inner conductors. Strip 1/4" of insulation from each conductor and connect to the speaker terminals. When connecting the wires to the speakers, be sure to observe proper polarity for the best sound. Most CL2 rated speaker cable will have red and black colored wires inside the jacket. Connect the red wire to the (+) terminal and the black wire to the (-) terminal. The red (+) and black (-) speaker wires should correspond to the same terminals on the amplifier.

### Choose Speaker Location

Simply place them 5-8 feet apart wherever you desire music for the best possible performance. If you will be installing your speakers outdoors, select locations facing your listening area that are protected from rain, snow, and out of direct sunlight for extended product life.



Typical 70V/100V installation wiring method



## MOUNTING THE SPEAKERS



Installation of your KT outdoor speakers is designed to be simple and intuitive, it is largely advised to consult a professional installer. Make sure the materials on which you plan to mount the speakers can support the weight of the speakers.

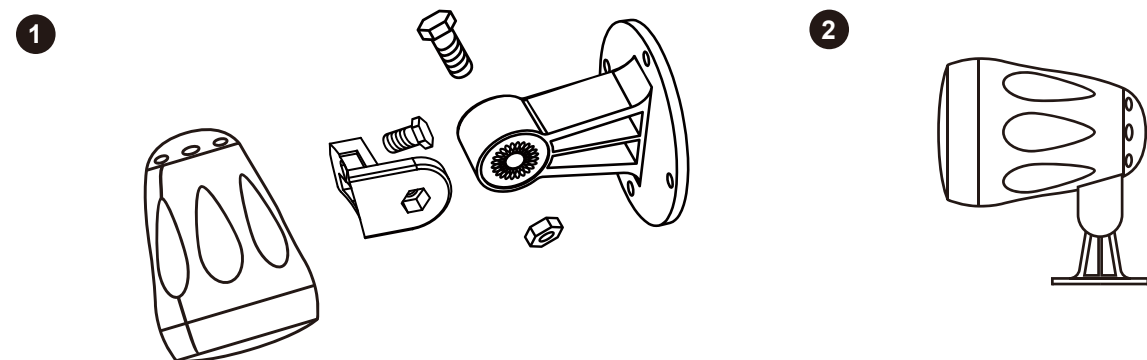
Hardware is provided for attaching the brackets directly to a solid wood beam and also to sturdy drywall that is at least 5/8" thick. Never attach the speakers to a wall that might contain electrical wiring or plumbing.

**IF YOU ARE UNSURE ABOUT ANY OF THESE INSTRUCTIONS, PLEASE CONTACT A PROFESSIONAL CUSTOM AUDIO INSTALLER.**

Although KT outdoor speakers are water proof and can be placed directly in the elements, mounting the speakers in such away that they will not absorb rain or sun directly will improve the speaker's longevity. Placing the speaker in a corner will also help improve bass performance.

Always mount the speakers so that they are aimed slightly downward in order to not collect rain water. Also, make sure to follow the "drip loop" instructions/example diagram (top of page 7).

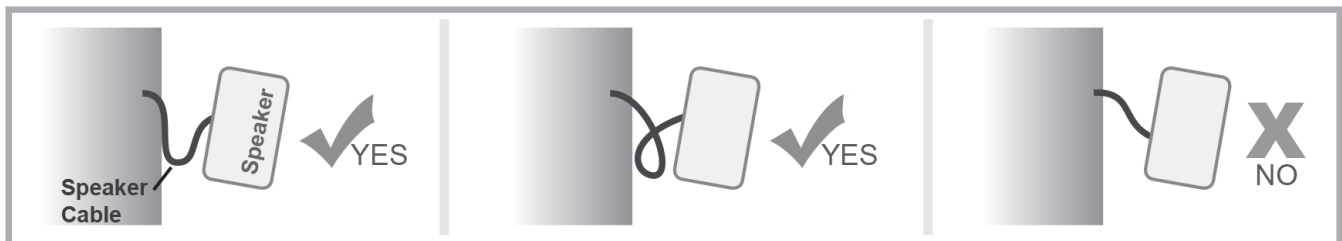
## MOUNTING BRACKET



## PROTECTING YOUR OUTDOOR SPEAKER WITH A “DRIP LOOP”

HTD recommends using a “drip loop” when installing your speaker cable to help minimize the direct flow of water onto the speaker. This will assist in reducing any potential long-term oxidation or water penetration issues by providing a low point for water to escape prior to reaching the speaker.

The below examples illustrate how (and how not) to utilize a drip loop.



## PRODUCT SPECIFICATIONS

Speaker Design	Indoor - Outdoor
Power Handling RMS	40W
Impadence $\Omega$	16 Ohms
Frequency Range+/-3	100 $\pm$ 20Hz
Tweeter	1" (25mm) Silk soft dome
Woofers	6" (208mm) Graphite Cone , Rubber Surround Woofer
Connector Type	Standard rotary connector
Color	Black
IP Rating	IPX66

### INCLUDED ITEMS

BRACKET  
USER MANUAL