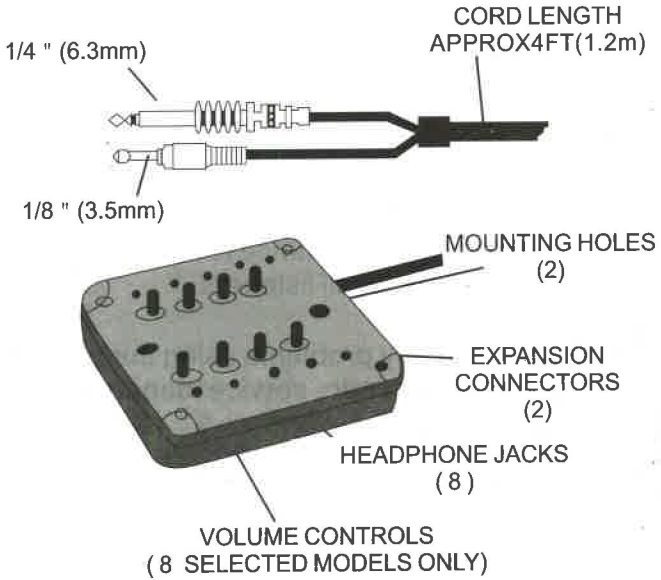
Headphone Junction Box Instructions



Connecting the Junction Box to Your Audio Source

Plug the junction box into your audio source as you would a single pair of headphones. Use either the 1/4" or 1/8" plug (but not both).

Using Several Junction Boxes

Plug the first junction box into your audio source. Plug the second and third junction boxes into the expansion connector on the first junction box. Use the expansion connectors on the second and third junction boxes to connect additional junction boxes, Be careful, however, not to exceed the capacity of your audio source. See Determining Your Audio Source Capacity.

Vcom Multimedia Corporation
Hamilton Buhl
80 Little Falls Fairfield, NJ 07004
800-631-0868 www.HamiltonBuhl.com customerservice@hamiltonbuhl.com

Determining Your Audio Source Capadility

All audio sources have an outlet load capacity called output impedance. This output impedance is specified using the term "ohms". Headphones are also rated in ohms, and when connecting a headphone to an amplifier, it is important that the ohms rating of the headphone should be equal to or greater than the ohms rating of amplifier. For example, if the amplifier is rated for eight ohms, the headphones should be at least eight ohms.

Headphone impedance is dramatically reduced when connecting multiple headphones, Therofore, it is necessary to use the following formula to determine the combined impedance of several headphones:

$$\text{Combined headphone impedance} = \frac{\text{impedance per headphone}}{\text{number of headphones connected}}$$

Example: Find the comdined impedance of eight 300-ohm headphones.
The audio source must have an impedance of 30 Ohms or less.

$$\text{Combined impedance} = \frac{\text{300 ohms per headphone}}{\text{10 headphones}} = 30\text{ohms}$$

NOTE:This formula only works when all head phones are of the same impedance. It is recommended that all headphones be of the same type and impedance to insure uniform output volume for all listeners.

NOTE: Pink knobs are NOT lights. They are volume control knobs

If you experience any problems using this product, contact Vcom customer service department at: 800-631-0868

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