

---

Subject: HR824 placement

Posted by [brandon\[2\]](#) on Sat, 03 Jun 2006 15:08:32 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi All,

According to the manual these were designed to be placed in a vertical position. I have read articles on speaker placement and they say most speakers are designed to have the listeners ear at a level height with the tweeter OR level with the space between the tweeter and the woofer. I notice that the phantom center shifts up and down in front of me as I change my ear level in relation to the tweeters. It is written that there is an optimal listening position when considering phase relation between the tweeter and the woofer. I wrote to Mackie and there response was:

"As long as you are a descent distance away from the cabinets, a meter or so, I don't think it matters. Put them in a horizontal plane with your head and stay a good bit away from them. You should be fine. msp"

This response goes against how the speakers were designed to be mounted and listened thru.....So.....

Does anyone know the optimal positioning?and why?

Thanks,  
Brandon

---

---

Subject: Re: HR824 placement

Posted by [EK Sound](#) on Sat, 03 Jun 2006 15:25:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Ideally, the speaker should be as far away from your ears as they are apart from each other (equal sided triangle). Also, the cabinets should be aiming at you with the center of the cabinet at right angles to your head. This means that if you have the cabinets sitting lower than your head, you should tilt them up slightly, and tilt down if they are over your head.

Just a rule of thumb... YMMV

David.

Brandon wrote:

> Hi All,

>

> According to the manual these were designed to be placed in a vertical  
> position. I have read articles on speaker placement and they say most speakers  
> are designed to have the listeners ear at a level height with the tweeter

> OR level with the space between the tweeter and the woofer. I notice that  
> the phantom center shifts up and down in front of me as I change my ear level  
> in relation to the tweeters. It is written that there is an optimal listening  
> position when considering phase relation between the tweeter and the woofer.  
> I wrote to Mackie and there response was:  
>  
> "As long as you are a descent distance away from the cabinets, a meter  
> or so, I don't think it matters. Put them in a horizontal plane with  
> your head and stay a good bit away from them. You should be fine. msp"  
>  
> This response goes against how the speakers were designed to be mounted and  
> listened thru.....So.....  
> Does anyone know the optimal positioning?and why?  
>  
> Thanks,  
> Brandon

---

---

Subject: Re: HR824 placement  
Posted by [Bill Lorentzen](#) on Sat, 03 Jun 2006 15:57:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Horizontal plane is not the same thing as place them horizontally.

Still, the guy who answered obviously was far from expert. Some tips from my experience:

If possible a yard from front wall  
Equilateral triangle  
Remove any objects from the space in the triangle and as much as you can  
remove any objects from the plane of the triangle  
Aim the tweets at ear.

Bill

"Brandon" <a@a.com> wrote in message news:4481a5f0\$1@linux...

>  
> Hi All,  
>  
> According to the manual these were designed to be placed in a vertical  
> position. I have read articles on speaker placement and they say most  
> speakers  
> are designed to have the listeners ear at a level height with the tweeter  
> OR level with the space between the tweeter and the woofer. I notice that  
> the phantom center shifts up and down in front of me as I change my ear  
> level  
> in relation to the tweeters. It is written that there is an optimal  
> listening

> position when considering phase relation between the tweeter and the  
> woofer.  
> I wrote to Mackie and there response was:  
>  
> "As long as you are a descent distance away from the cabinets, a meter  
> or so, I don't think it matters. Put them in a horizontal plane with  
> your head and stay a good bit away from them. You should be fine. msp"  
>  
> This response goes against how the speakers were designed to be mounted  
> and  
> listened thru.....So.....  
> Does anyone know the optimal positioning?and why?  
>  
> Thanks,  
> Brandon  
>

---

---

Subject: Re: HR824 placement  
Posted by [John \[1\]](#) on Sat, 03 Jun 2006 16:37:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

That technique works perfectly. If you do it like that you will get the best sweet spot where the stereo imaging is the most 3d.

I have little 2x4 blocks to aim the speakers down when I'm sitting mixing and straight when I'm standing playing. It keeps the sweet spot ideal.

John

EK Sound <askme@nospam.com> wrote:

>Ideally, the speaker should be as far away from your ears as they are  
>apart from each other (equal sided triangle). Also, the cabinets  
>should be aiming at you with the center of the cabinet at right angles  
>to your head. This means that if you have the cabinets sitting lower  
>than your head, you should tilt them up slightly, and tilt down if  
>they are over your head.

>

>Just a rule of thumb... YMMV

>

>David.

>

>Brandon wrote:

>> Hi All,

>>

>> According to the manual these were designed to be placed in a vertical  
>> position. I have read articles on speaker placement and they say most  
speakers

>> are designed to have the listeners ear at a level height with the tweeter  
>> OR level with the space between the tweeter and the woofer. I notice that  
>> the phantom center shifts up and down in front of me as I change my ear  
level  
>> in relation to the tweeters. It is written that there is an optimal listening  
>> position when considering phase relation between the tweeter and the woofer.  
>> I wrote to Mackie and there response was:  
>>  
>> "As long as you are a descent distance away from the cabinets, a meter  
  
>> or so, I don't think it matters. Put them in a horizontal plane with  
>> your head and stay a good bit away from them. You should be fine. msp"  
>>  
>> This response goes against how the speakers were designed to be mounted  
and  
>> listened thru.....So.....  
>> Does anyone know the optimal positioning?and why?  
>>  
>> Thanks,  
>> Brandon

---

---

Subject: Re: HR824 placement  
Posted by [Don Nafe](#) on Sat, 03 Jun 2006 17:17:38 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

My Speakers (Modified Noteperfect Alpha Pros) are

34" off the floor  
31" off the front wall  
25" off the side walls  
80" apart

in a room 10' X 19' 10" X 95"

DOn

"Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
news:4481b042\$1@linux...  
> Horizontal plane is not the same thing as place them horizontally.  
>  
> Still, the guy who answered obviously was far from expert. Some tips from  
> my experience:  
>

> If possible a yard from front wall  
> Equilateral triangle  
> Remove any objects from the space in the triangle and as much as you can  
> remove any objects from the plane of the triangle  
> Aim the tweeters at ear.  
>  
> Bill  
>  
> "Brandon" <a@a.com> wrote in message news:4481a5f0\$1@linux...  
>>  
>> Hi All,  
>>  
>> According to the manual these were designed to be placed in a vertical  
>> position. I have read articles on speaker placement and they say most  
>> speakers  
>> are designed to have the listeners ear at a level height with the tweeter  
>> OR level with the space between the tweeter and the woofer. I notice that  
>> the phantom center shifts up and down in front of me as I change my ear  
>> level  
>> in relation to the tweeters. It is written that there is an optimal  
>> listening  
>> position when considering phase relation between the tweeter and the  
>> woofer.  
>> I wrote to Mackie and there response was:  
>>  
>> "As long as you are a descent distance away from the cabinets, a meter  
>> or so, I don't think it matters. Put them in a horizontal plane with  
>> your head and stay a good bit away from them. You should be fine. msp"  
>>  
>> This response goes against how the speakers were designed to be mounted  
>> and  
>> listened thru.....So.....  
>> Does anyone know the optimal positioning?and why?  
>>  
>> Thanks,  
>> Brandon  
>>  
>  
>

---

Subject: Re: HR824 placement  
Posted by [El Miguel \[1\]](#) on Sat, 03 Jun 2006 18:52:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

When you say the center of the cabs should be at right angles you mean facing straight back and not angled directly at the ear?

I have researched many diagrams and the most common one is the 60degree equilateral triangle. This is recommended as follows:

1. Speaker centers 4-6 feet apart.
2. Listener positioned in an equilateral triangular position.
3. Speaker cab centers angled to point just behind the head of the listener (directly at each ear).

EK Sound <askme@nospam.com> wrote:

> Ideally, the speaker should be as far away from your ears as they are  
> apart from each other (equal sided triangle). Also, the cabinets  
> should be aiming at you with the center of the cabinet at right angles  
> to your head. This means that if you have the cabinets sitting lower  
> than your head, you should tilt them up slightly, and tilt down if  
> they are over your head.

>

> Just a rule of thumb... YMMV

>

> David.

>

> Brandon wrote:

>> Hi All,

>>

>> According to the manual these were designed to be placed in a vertical  
>> position. I have read articles on speaker placement and they say most  
>> speakers

>> are designed to have the listeners ear at a level height with the tweeter  
>> OR level with the space between the tweeter and the woofer. I notice that  
>> the phantom center shifts up and down in front of me as I change my ear  
>> level

>> in relation to the tweeters. It is written that there is an optimal listening  
>> position when considering phase relation between the tweeter and the woofer.

>> I wrote to Mackie and there response was:

>>

>> "As long as you are a descent distance away from the cabinets, a meter

>> or so, I don't think it matters. Put them in a horizontal plane with

>> your head and stay a good bit away from them. You should be fine. msp"



>>than your head, you should tilt them up slightly, and tilt down if  
>>they are over your head.  
>>  
>>Just a rule of thumb... YMMV  
>>  
>>David.  
>>  
>>Brandon wrote:  
>>  
>>>Hi All,  
>>>  
>>> According to the manual these were designed to be placed in a vertical  
>>>position. I have read articles on speaker placement and they say most  
>  
> speakers  
>  
>>>are designed to have the listeners ear at a level height with the tweeter  
>>>OR level with the space between the tweeter and the woofer. I notice that  
>>>the phantom center shifts up and down in front of me as I change my ear  
>  
> level  
>  
>>>in relation to the tweeters. It is written that there is an optimal listening  
>>>position when considering phase relation between the tweeter and the woofer.  
>>>I wrote to Mackie and there response was:  
>>>  
>>>"As long as you are a descent distance away from the cabinets, a meter  
>  
>  
>>>or so, I don't think it matters. Put them in a horizontal plane with  
>>>your head and stay a good bit away from them. You should be fine. msp"  
>>>  
>>>This response goes against how the speakers were designed to be mounted  
>  
> and  
>  
>>>listened thru.....So.....  
>>>Does anyone know the optimal positioning?and why?  
>>>  
>>>Thanks,  
>>>Brandon  
>  
>

---

Subject: Re: HR824 placement  
Posted by [El Miguel \[1\]](#) on Sat, 03 Jun 2006 20:56:52 GMT



Thanks for the input guys.  
I will out the tweeters level with the ear.

EK Sound <askme@nospam.com> wrote:

>That is essentially what I meant... it is kinda tough to describe

>geometry...

>

>David.

>

>Brandon wrote:

>

>> When you say the center of the cabs should be at right angles you mean facing

>> straight back and not angled directly at the ear?

>>

>> I have researched many diagrams and the most common one is the 60degree equalateral

>> triangle. This is recommended as follows:

>> 1.Speaker centers 4-6 feet apart.

>> 2.Listener positioned in an equalateral triangular position.

>> 3.Speaker cab centers angled to point just behind the head of the listener

>> (directly at each ear).

>>

>>

>>

>>

>>

>>

>>

>>

>>

>>

>>

>>

>> EK Sound <askme@nospam.com> wrote:

>>

>>>Ideally, the speaker should be as far away from your ears as they are

>>>apart from each other (equal sided triangle). Also, the cabinets

>>>should be aiming at you with the center of the cabinet at right angles

>>>to your head. This means that if you have the cabinets sitting lower

>>>than your head, you should tilt them up slightly, and tilt down if  
>>>they are over your head.  
>>>  
>>>Just a rule of thumb... YMMV  
>>>  
>>>David.  
>>>  
>>>Brandon wrote:  
>>>  
>>>>Hi All,  
>>>>  
>>>> According to the manual these were designed to be placed in a vertical  
>>>>position. I have read articles on speaker placement and they say most  
>>  
>> speakers  
>>  
>>>>are designed to have the listeners ear at a level height with the tweeter  
>>>>OR level with the space between the tweeter and the woofer. I notice  
that  
>>>>the phantom center shifts up and down in front of me as I change my ear  
>>  
>> level  
>>  
>>>>in relation to the tweeters. It is written that there is an optimal listening  
>>>>position when considering phase relation between the tweeter and the  
woofer.  
>>>>I wrote to Mackie and there response was:  
>>>>  
>>>>"As long as you are a descent distance away from the cabinets, a meter  
>>  
>>  
>>>>or so, I don't think it matters. Put them in a horizontal plane with  
  
>>>>your head and stay a good bit away from them. You should be fine. msp"  
>>>>  
>>>>This response goes against how the speakers were designed to be mounted  
>>  
>> and  
>>  
>>>>listened thru.....So.....  
>>>>Does anyone know the optimal positioning?and why?  
>>>>  
>>>>Thanks,  
>>>>Brandon  
>>  
>>

---