



RACK

Straightforward, No-nonsense,
Precise Science...

Owner's Manual

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Important Safety Instructions

- Please read all instructions in this Owner's Manual carefully and completely before you start assembling and/or using your YG Acoustics™ Rack.
- Always disconnect AC power before connecting or disconnecting any cables, or when cleaning any component.
- Never use combustible or flammable chemicals for cleaning any component.
- Never allow any liquid or moisture to penetrate this product.
- Never attempt to repair this product yourself. If a problem occurs, contact your YG Acoustics™ dealer. There are no user serviceable parts inside.
- Never expose this product to extremely high or low temperatures.
- Never operate this product in an explosive atmosphere.
- Always keep hazardous equipment out of the reach of children.

A Message from Yoav Geva

Dear Music Lover,

Congratulations and thank you for your purchase of a YG Acoustics™ Rack.

You have acquired a product that is at the leading edge of the art of science and sound. We are confident that it will bring musical joy into your home for many years to come.

I'd like to personally welcome you into our family, a very exclusive group of discerning listeners who expect nothing but the natural sound of live music reproduced in the comfort of their homes.

As part of this family, you enjoy a strong and knowledgeable support network. We here at YG Acoustics™, and our dedicated partners worldwide, are at your service.

We wish you many wonderful musical and emotional experiences.

Truly Yours,

Yoav Geva, President
And the YG Acoustics™ Team

Introduction

YG Acoustics™' Rack series was initially designed as a tool for internal use. The factory's critical listening room needed a vibration-free, solid platform to allow equipment to play under optimal conditions. In a challenging environment, full of hostile vibration, other equipment racks couldn't deliver the desired result.

When designing Rack 1.3, 1.4 and 1.6, YG Acoustics™ adhered to its core values: straightforward, no-nonsense, precise science. The result is a rack series that isolates equipment from vibration extremely well. This is partly thanks to the fact that each shelf can be optimized in minutes for the weight of the specific component that it supports.

A video that demonstrates the effectiveness of Rack 1.3 can be found on the YG Acoustics™ website.

YG Acoustics™ Rack 1.3, 1.4 and 1.6 – straightforward, no-nonsense, precise science... handmade in U.S.A.

About the Manual and Limited Warranty

To begin enjoying your new YG Acoustics™ Rack, first carefully read and follow the instructions set forth in this Owner's Manual. Maximal performance depends on following all instructions described here, as well as those found in the Owner's Manuals of all other components in your audio system. Save these instructions for future reference.

YG Acoustics™ Rack is covered by a limited 5-year warranty, so save the bill of sale to protect your purchase and aid in any service-related questions. The terms of such limited warranty are set forth on the limited warranty card. In addition, be sure to send us the copy of the limited warranty card, which is used as a product registration card. Only once we receive the card and have you listed in the customer database, can we locate the manufacturing protocol of your Rack and provide quality service. Failure to complete and submit the copy of the limited warranty card to us could affect your rights.

IMPORTANT! It is imperative that you fill out both the limited warranty card and the supplied copy, including the model. After doing so, mail us the copy for use as a Product Registration Form, to this address (which also appears on the back of the limited warranty card):

**YG Acoustics LLC
4941 Allison St., Unit 10
Arvada, CO 80002
U.S.A.**

Configuration

As with YG Acoustics™' world-famous speakers, Rack is available in several modular configurations. The construction allows for the addition of shelves, and for horizontal expansion, without the need to replace the existing Rack.

- Rack 1.3 – 3 shelves.
- Rack 1.4 – 4 shelves.
- Rack 1.6 – 6 shelves (3 high, 2 wide).

Other configurations available upon request.

Unpacking

IMPORTANT! Do not attempt to lift YG Acoustics™ Rack alone – your dealer should install Rack for you using specialized tooling, and your assistance should be limited to actions that do not require the use of high force. Even so, to avoid possible injury, use extreme care during unpacking. Always stand as straight as possible and use your leg muscles to lift any item. Do not lift while bending from the waist. To avoid possible injury, always seek the advice of a qualified medical professional if you suffer from any relevant medical condition, or if otherwise applicable.

Note: When storing Rack in its shipping cartons (either before initially unpacking, or after repacking), always place the cartons right side up. The internal foam package will not endure prolonged placement on any side except the intended bottom.

Each YG Acoustics™ Rack is packed in one or more cartons with a shipping weight of up to approximately 82 kg (180 lbs). To avoid personal injury and possible product damage, we strongly urge you to allow your dealer to perform the whole unpacking process using specialized tooling.

To unpack Rack, perform the following steps:

1. Place the carton right side up. Carefully open the carton – never slice any deeper than 6 mm (1/4”) into the carton to avoid damaging the Rack parts inside.
2. Carefully lift the parts one by one from the carton, and place them on a soft surface for assembly.
3. Your dealer will at this point assemble Rack together using specialized tooling. Always assemble all parts together securely, and make sure they cannot rattle or otherwise loosen over time.

After unpacking, carefully inspect Rack for possible damage due to shipping. If you discover any damage, immediately contact your YG Acoustics™ dealer for assistance.

Keep all packaging for future shipping. In the unlikely event a product needs repair, YG Acoustics™ will only accept units in their original shipping cartons. The use of any other packaging may result in damage to the product that is not covered by the product's limited warranty.

Contents of the Cartons

Each carton contains several Rack parts, which vary by configuration (**fully read this manual before using any of the supplied tools**).

Rack 1.3 is packaged in a single carton that contains the following parts:

- 1 bottom shelf with titanium-colored trapezoid
- 2 middle/top shelves
- 3 shelf inlays
- 2 uprights
- 3 YG Acoustics™ spikes (4 available upon request)
- 3 black composite disks to prevent the spikes from damaging the flooring (4 available upon request)
- 2 hex keys – a small one for adjusting spikes, and a larger one for bolting shelves to uprights.
- 18 screws for bolting shelves to uprights
- A tube of blue Loctite, to prevent screws from loosening over time.
- 18 isolators. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- 6 stainless steel balls. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- A USB stick containing this Owner's Manual, as well as 2 copies of a limited warranty card: one titled "Limited Warranty" which you should fill and keep in case service is required, and a "Copy of Limited Warranty" which should be filled and mailed to YG Acoustics™ as a product registration card.

Rack 1.4 is packaged in two cartons that contain the following parts:

- 1 bottom shelf with titanium-colored trapezoid
- 3 middle/top shelves
- 4 shelf inlays
- 2 taller uprights
- 3 YG Acoustics™ spikes (4 available upon request)
- 3 black composite disks to prevent the spikes from damaging the flooring (4 available upon request)
- 2 hex keys – a smaller one for adjusting spikes, and a larger one for bolting shelves to uprights.
- 24 screws for bolting shelves to uprights.
- A tube of blue Loctite, to prevent screws from loosening over time.
- 24 isolators. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- 9 stainless steel balls. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- A USB stick containing this Owner's Manual, as well as 2 copies of a limited warranty card: one titled "Limited Warranty" which you should fill and keep in case service is required, and a "Copy of Limited Warranty" which should be filled and mailed to YG Acoustics™ as a product registration card.

Rack 1.6 is packaged in two cartons that contain the following parts:

- 2 bottom shelves with titanium-colored trapezoids
- 4 middle/top shelves
- 6 shelf inlays
- 2 uprights
- 1 shared upright
- 6 YG Acoustics™ spikes (8 available upon request)

- 6 black composite disks to prevent the spikes from damaging the flooring (8 available upon request)
- 2 hex keys – a small one for adjusting spikes, and a larger one for bolting shelves to uprights.
- 36 screws for bolting shelves to uprights.
- A tube of blue Loctite, to prevent screws from loosening over time.
- 36 isolators. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- 15 stainless steel balls. The actual number needed may vary depending on the weight and construction of your audio gear. More can be purchased separately if needed.
- A USB stick containing this Owner's Manual, as well as 2 copies of a limited warranty card: one titled "Limited Warranty" which you should fill and keep in case service is required, and a "Copy of Limited Warranty" which should be filled and mailed to YG Acoustics™ as a product registration card.

Contents may vary when Racks are purchased as a retroactive expansion, and/or when customized Racks are purchased.

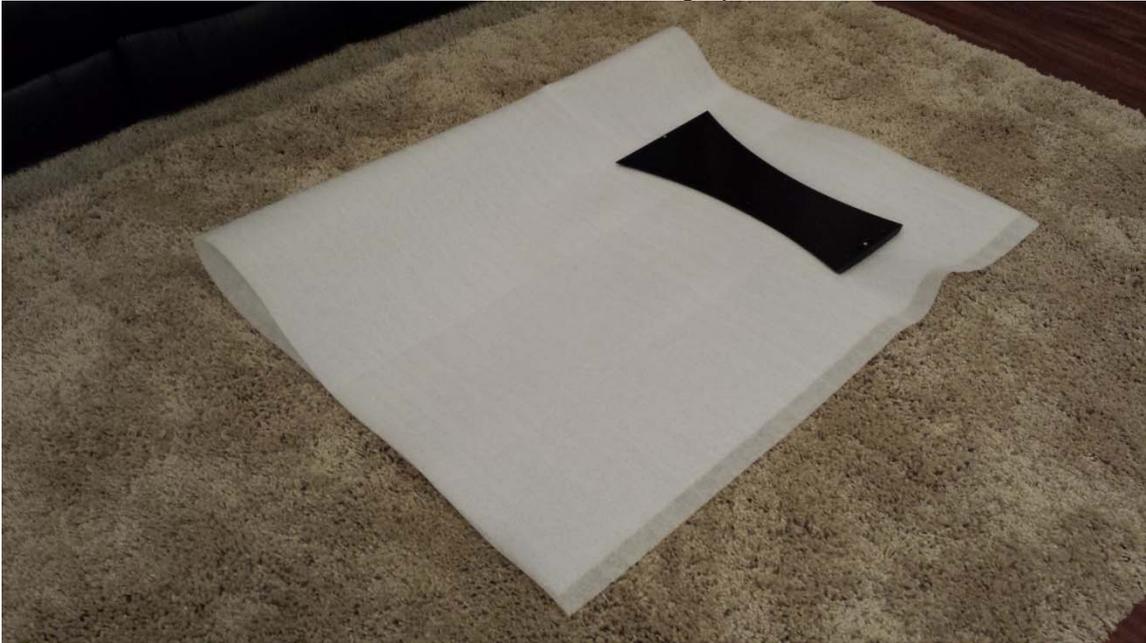
If any of the foregoing parts seem to be missing, immediately contact your YG Acoustics™ dealer for assistance.

A Note about Semi-Cosmetic Surfaces

The undersides of Rack shelves and inlays, and the inner side of Rack uprights, are semi-cosmetic surfaces (just like with bottoms of YG Acoustics™ speakers). This means that a visual finish is applied to them as if they were cosmetic surfaces, but minor cosmetic blemishes may appear due to the utilized machining and anodizing processes. With semi-cosmetic surfaces, such blemishes are unavoidable and thus allowed.

Assembly

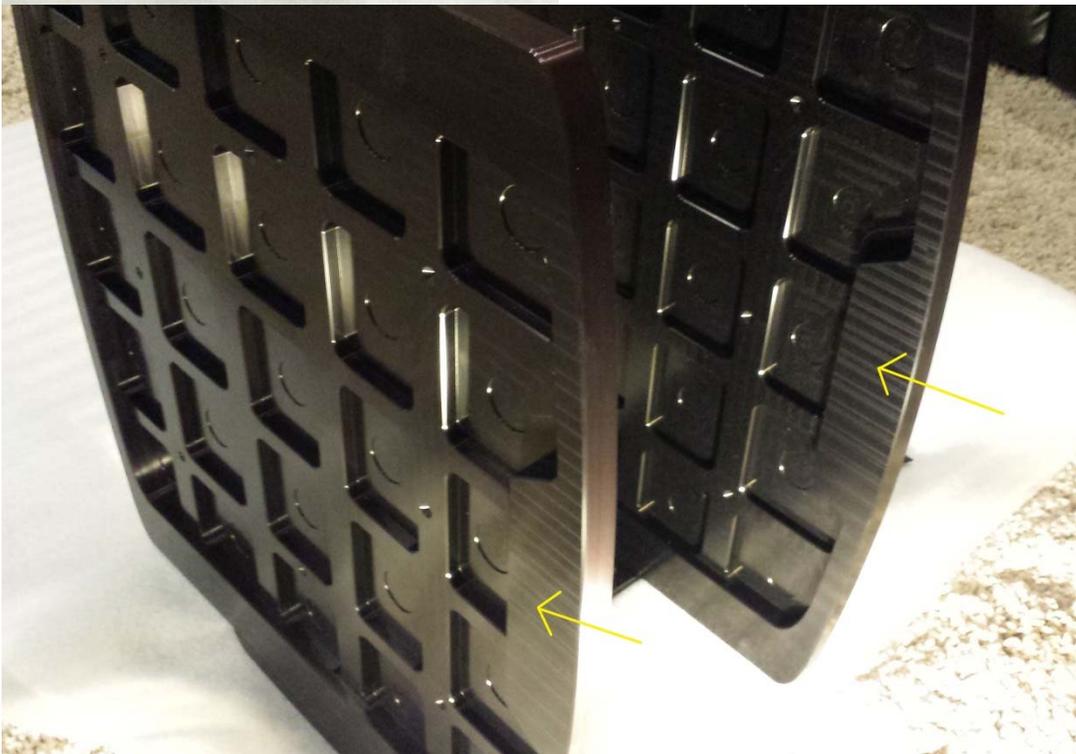
1. The entire assembly process is a job for two professionals - enlist the help of a second technician for performing the tasks below safely and carefully. Prepare a soft, clean surface for assembly, to prevent damaging parts. Place one of the uprights on the surface, curved face down and screw holes facing upward.



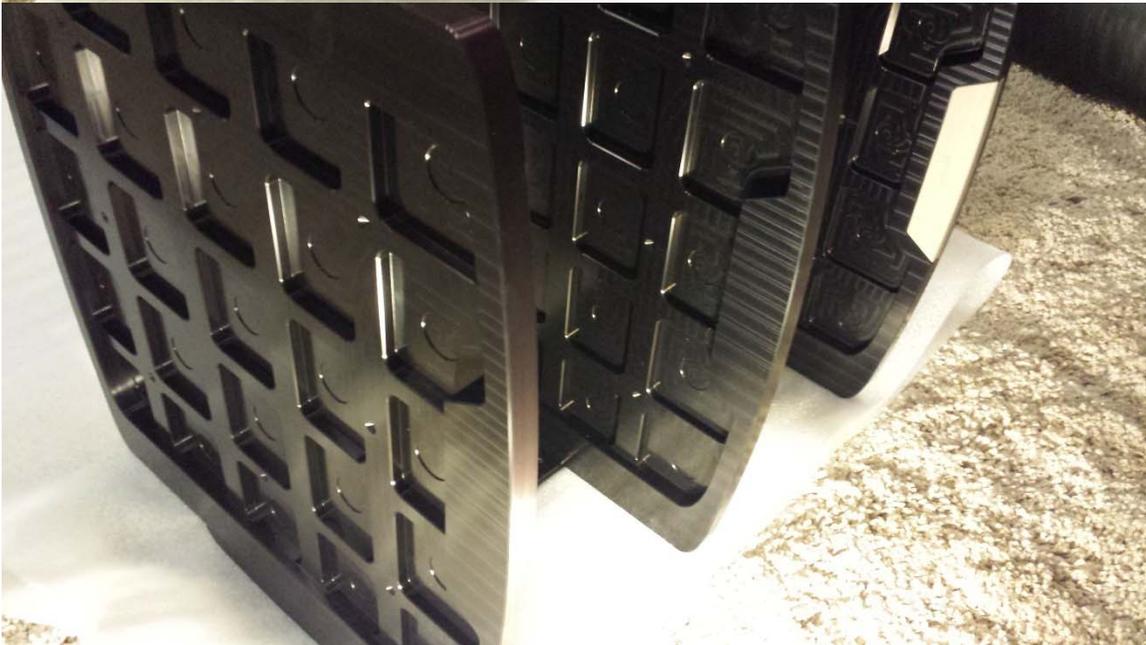
2. Attach the top shelf to the upright's topmost row of holes using 3 screws. Snug-tighten the screws, but do not fully tighten yet.



3. Attach the middle shelf/shelves to the desired row(s) of holes using 3 screws each. Snug-tighten the screws, but do not fully tighten yet. Make sure the trapezoidal tabs on all shelves (marked with yellow arrows in the second photo below) face the same direction. Space the shelves as evenly as your audio gear would allow.



4. Attach the bottom shelf, which has wider spaced holes, to the bottom-most row of holes using 3 screws. Snug-tighten the screws, but do not fully tighten yet. Make sure that the titanium-colored trapezoid faces the same direction as the above-mentioned trapezoidal tabs.



5. Attach the next upright (curved with screws facing downward for Rack 1.3, or shared for Rack 1.6 as shown) using 3 screws per shelf. First snug-tighten, and then fully tighten all 6 screws per shelf. The recommended tightening torque is 11.5 Nm¹. If you do not have a suitable torque-controlled tool on hand, use a small drop of the supplied blue Loctite on each screw's thread and tighten securely, but be careful not to overtighten.



¹ The joint is rather soft, so a slow-acting tool is required to achieve proper torque. Do not use a pulse-tool.

6. Carefully rotate Rack so that the titanium-colored trapezoid faces upward, and the rear of all shelves is on the soft work surface.



7. For Rack 1.3 or Rack 1.4, skip the next two stages and continue to stage 9 below. For Rack 1.6, attach the remaining 3 shelves from top to bottom, using 3 snug-tight screws per shelf. Monitor the direction of the trapezoidal tabs and titanium-colored trapezoid to make sure they continue to match.



8. Attach the remaining upright using 3 screws per shelf, and fully tighten all 6 screws of the last 3 shelves. Use the same torque/Loctite process as described above.



9. Tilt the Rack upright, move into position, and only then install spikes with or without floor-protector disks if desired. The photo below, which shows spikes installed before tilting upright, is provided for illustration purposes only to help locate spike-holes.



10. Using the precise Setup calculation-sheet below, tune each shelf using the appropriate number of isolators or stainless steel balls. If more than the included isolators or stainless steel balls are required, they may be purchased separately. Shown below are three of the many possible setups – 3 stainless steel balls, 3 isolators and 6 isolators.



11. Carefully place an inlay in each shelf. There is a gap of approximately 1.2 mm (.05") all around between the inlay and the shelf. Position carefully so that the gap is uniform throughout, to prevent the inlay from rubbing against the shelf during operation. Some skilled technicians can do this by hand, while others may need to use shims for accurate placement. If shims are required, make sure they are non-marring to avoid damaging Rack parts.



Setup

Sound quality and proper functionality are dependent on correct tuning of the shelves. The following guidelines will help you obtain the best results. In general, we recommend you use the assistance of a professional installer when setting-up stereo and/or home cinema equipment.

Warning: space the middle shelf/shelves of YG Acoustics™ Rack as evenly as possible to avoid any tall unsupported sections of the uprights. Position components carefully to maintain even weight distribution across each shelf. Inspect tightness of screws regularly, but be careful not to overtighten. The weight capacities below are based on even spacing of all shelves, even weight distribution across each shelf, and properly tightened screws. Danger: never use YG Acoustics™ Rack as a step/chair/stool/ladder/bench of any kind!

Follow the instructions below for each shelf of YG Acoustics™ Rack separately.

Start by determining whether the component to be positioned on the shelf has its own suspension (many floating turntables do, as does some other equipment). If the component has its own suspension, and especially if the manufacturer advises that it should not be used in conjunction with additional isolation, use a hard coupling with three stainless steel balls.

Otherwise, use the following chart to determine the required isolation inside the shelf.

If component weighs	Use the following
< 1.7 kg (< 3.8 lbs)	Test two options: 3 stainless steel balls, or 3 stainless steel balls and 1 isolator in center
≥ 1.7 to < 5.1 kg (≥ 3.8 to < 11.3 lbs)	Test three options: 3 stainless steel balls, or 3 stainless steel balls and 1 isolator in center, or 3 isolators
≥ 5.1 to < 9.6 kg (≥ 11.3 to < 21.1 lbs)	3 isolators
≥ 9.6 to < 13.6 kg (≥ 21.1 to < 29.9 lbs)	4 isolators
≥ 13.6 to < 17.6 kg (≥ 29.9 to < 38.7 lbs)	5 isolators
≥ 17.6 to < 21.5 kg (≥ 38.7 to < 47.5 lbs)	6 isolators
≥ 21.5 to < 25.5 kg (≥ 47.5 to < 56.3 lbs)	7 isolators
≥ 25.5 to < 29.5 kg (≥ 56.3 to < 65.1 lbs)	8 isolators
≥ 29.5 to < 33.5 kg (≥ 65.1 to < 73.9 lbs)	9 isolators
≥ 33.5 to < 37.5 kg (≥ 73.9 to < 82.7 lbs)	10 isolators
≥ 37.5 to < 41.5 kg (≥ 82.7 to < 91.5 lbs)	11 isolators
≥ 41.5 to < 45.5 kg (≥ 91.5 to < 100.3 lbs)	12 isolators
≥ 45.5 to < 49.5 kg (≥ 100.3 to < 109.1 lbs)	13 isolators
≥ 49.5 to < 53.5 kg (≥ 109.1 to < 117.9 lbs)	14 isolators
≥ 53.5 to < 57.5 kg (≥ 117.9 to < 126.7 lbs)	15 isolators

≥ 57.5 to < 61.4 kg (≥ 126.7 to < 135.5 lbs)	16 isolators – load limit top/middle shelves
≥ 61.4 to < 65.4 kg (≥ 135.5 to < 144.3 lbs)	17 isolators
≥ 65.4 to < 69.4 kg (≥ 144.3 to < 153.1 lbs)	18 isolators
≥ 69.4 to < 73.4 kg (≥ 153.1 to < 161.9 lbs)	19 isolators
≥ 73.4 to < 77.4 kg (≥ 161.9 to < 170.7 lbs)	20 isolators
≥ 77.4 to < 81.4 kg (≥ 170.7 to < 179.5 lbs)	21 isolators
≥ 81.4 to < 85.4 kg (≥ 179.5 to < 188.3 lbs)	22 isolators
≥ 85.4 to < 89.4 kg (≥ 188.3 to < 197.1 lbs)	23 isolators
≥ 89.4 to < 93.4 kg (≥ 197.1 to < 205.9 lbs)	24 isolators
≥ 93.4 to < 97.4 kg (≥ 205.9 to < 214.7 lbs)	25 isolators – load limit bottom shelf

Maintenance

YG Acoustics™ Rack has a high-quality finish on its various parts, which does not require any routine maintenance. Use a soft cloth, slightly dampened with water only, to remove any fingerprints or to wipe off dust, and immediately follow with a dry cloth. Always make sure that water or any other material does not touch electronic equipment, and that your entire system is unplugged.

Regularly inspect the tightness of Rack screws, but do not overtighten.

Always let your YG Acoustics™ dealer perform any tasks other than the above-mentioned action. Attempting to perform any other repairs/modifications on your own (for any reason) would immediately void the limited warranty.

Spikes

YG Acoustics™ Rack comes standard with spikes.

Caution: Rack with spikes installed is a heavy object with very sharp corners. Please follow common-sense safety rules to prevent injury.

The holes for spikes on the bottom of each Rack bottom shelf allow for either 3 or 4 spikes to be used. For 3 spikes, use one spike in the front-center hole and two in the back holes. For 4 spikes, use all corners and leave the front-center hole vacant.

To adjust a spike, adjust its height using a hex key in the side-hole of the spike-tip while keeping enough thread in the spike to maintain stability, and re-tighten the locking nut.

Technical Specifications

Available configurations:

Rack 1.3 – 3 shelves
Rack 1.4 – 4 shelves
Rack 1.6 – 6 shelves (3 high, 2 wide)
Other configurations available upon request

Shelf space:

Internal width – 60 cm (23.6")
Internal depth – open construction, limited mainly by desired outer dimensions
Internal height – adjustable in 2.5 cm (1") increments

Uniform load limit:

Bottom shelf – up to 75 kg (214 lbs)
Top/middle shelf – up to 61 kg (135 lbs)

Outer dimensions:

Rack 1.3 – 59x65x54 cm (23x26x22") HxWxD
Rack 1.4 – 87x65x54 cm (35x26x22") HxWxD
Rack 1.6 – 59x127x54 cm (23x50x22") HxWxD

Net weight:

Rack 1.3 – 51 kg (112 lbs)
Rack 1.4 – 69 kg (152 lbs)
Rack 1.6 – 97 kg (213 lbs)

YG Acoustics™ constantly strives to update and improve existing products as well as create new products and technologies. Therefore, specifications and construction details are subject to change without notice.

Troubleshooting

Do not attempt to repair YG Acoustics™ Rack yourself.

Service Information

In the unlikely event that your YG Acoustics™ component requires service, contact your YG Acoustics™ dealer for immediate assistance. They will determine if it can be serviced locally or requires shipment to our factory.

Important: If factory service is required, please notify us before sending the product for repair. In order to obtain the unit back quickly, provide us with information about the problem experienced, especially if it is intermittent. Be sure to pack each unit to be returned in its original packaging to prevent possible damage during the shipping process.

Contact Details

Please contact your YG Acoustics™ dealer, or us directly, with any questions you may have about our products. You can reach us at:

**YG Acoustics LLC
4941 Allison St., Unit 10
Arvada, CO 80002
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