



FG# 03617570



CAUTION ! Before attempting to suspend any Versarray™ Rigging Hardware with or without speakers hung from it, consult a certified structural engineer. The Halo/Fly Bar and/or speaker array can fall from improper suspension, resulting in serious injury and property damage. Use only the correct mating hardware. All associated rigging is the responsibility of others.

Description

The Crest Audio® Versarray™ Mk III Six Foot Fly Bar is used in conjunction with the Crest Audio® Versarray™ Mk III Halo to provide additional rigging options compared to the two foot fly bar, or the VR Halo by itself.

This part is an optional piece of the overall rigging system, and it may not be needed if a single VR Halo is to be flown.

It's primary use is to fly two Versarray™ Mk III Halo's at the same time, providing for a separate hang for a number of VR Pro 215 Subs from one VR Halo, and a number of VR Pro 112 or passive Mk III from a separate VR Mk III Halo.

Specifications:

Overall Dimensions, H x W x L:

5.00" X 0.50" X 72.00" (12.7 cm X 1.3 cm X 182.9 cm)

Weight: 53 lbs. (24.1 kg)

Material: 1 / 2 " thick by 5" solid steel alloy with assorted rigging holes along it's length.

Finish: Entire Fly Bar is flat black powder coated paint finish.

Recommended Shackle Specifications, **Nominally used at locations X1 thru X7**
(*Shackles NOT supplied with the Versarray™ Mk III Six Foot Fly Bar*):

3/4" diameter pin Forged Carbon Steel Screw-pin Anchor Shackle

18 mm or 20 mm diameter pin based shackles can also be used, and the Stainless Steel alloy 316 can be an alternate material for the shackle.

The shackle should be load rated for a minimum of 2 tons (4,000 lbs.), and shackles of this size and materials often have load ratings in excess of this.

Working Load Limit: 777 kg / 1710 lbs. for Ultimate Strength Design Factor of 10:1
(This meets PLASA North America criteria and typically exceeds local USA safety requirements.)

Working Load Limit: 645 kg / 1425 lbs. for Ultimate Strength Design Factor of 12:1
(This is in compliance with the European Union mandated Safety Factor)

Maximum Angle From Horizontal: 10 degrees

NOTES:

The ultimate strength for the Versarray™ Mk3 loudspeaker system rigging points was determined utilizing calibrated and certified pull tests.



CAUTION ! The Crest Audio® Versarray™ Mk III Six Foot Fly Bar is designed to be used **ONLY** in conjunction with the Crest Audio® Versarray™ Mk III Halo ! It is not designed to fly any cabinets by itself, nor should you attempt to do so!



CAUTIONS

WARNING !

IMPORTANT INFORMATION FOR STRUCTURAL ENGINEER AND RIGGING PERSONNEL.

Before you fly the array, be sure to inspect the rigging and flying hardware to insure that it is mechanically sound and has not been damaged. There should be no significant distortion of the shape of the Halo coupling ears, cabinet straps, Angle Slider bracket or Rail, Pivot Bar or a fly bar, and the hardware should be checked for tightness.



CAUTIONS:

IF ANY OF THE BRACKETS, RAILS, CABINET STRAPS, PIVOT BAR OR THE FLY BAR HAS BEEN DAMAGED OR DISTORTED, DO NOT USE, AND DO NOT FLY THE ARRAY UNTIL THEY CAN BE REPLACED OR REPAIRED!

DO NOT USE THE PIVOT BAR OR ANGLE SLIDER BRACKET AS HANDLES TO TRANSPORT THE CABINETS!

DO NOT TRANSPORT THE CABINETS IN ARRAY CONFIGURATION COUPLED TOGETHER, EXCEPT WITH THE RECOMMENDED TRANSPORT CART AND IN THE STIPULATED MANNER FOR THAT CART. TRANSPORT IN SUCH AN UNAPPROVED MANNER VOIDS THE WARRANTY, AND THE SYSTEM WOULD BE CONSIDERED UNSAFE TO BE FLOWN AFTER SUCH AN UNAPPROVED TRANSPORT EVENT.

The Crest Audio® Versarray™ loudspeaker models should be suspended overhead only in accordance with the procedures and limitations specified in the User's Manual and possible manual update notices. This system should be suspended with certified rigging hardware by a qualified rigging professional and in compliance with local, provincial or national suspension ordinances. ALWAYS USE PROPER GRADE HARDWARE.



CAUTION: Before attempting to suspend this speaker, consult with a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Use only the correct mating hardware. All associated rigging is the responsibility of others. Maximum enclosure angle 30 degrees. Failure to follow proper rigging specifications listed in the manual may result in injury or death.

Whenever possible, in addition to the nominal primary mounting method, use a suitable safety chain or wire rope attached to one of the other groups of fly points, and firmly attached to a suitable structural member as indicated by a certified structural engineer. **CAUTION: ALWAYS USE SAFETY CHAIN OR WIRE ROPE.** It is the responsibility of the user and installer to make sure that any Crest Audio® Versarray™ installation meets any applicable local, state or federal safety regulations.



DO NOT USE THE FLOWN ARRAY AS A LADDER, OR ATTEMPT TO CLIMB UP TO THE RIGGING OR THE HALO USING THE FLOWN LINE OF VR112 CABINETS!
DOING SO IS LIKELY TO DAMAGE THE CABINET HARDWARE AND RIGGING, AS WELL AS POSE A SERIOUS AND DANGEROUS SAFETY HAZARD!

Correct use and seating of the Quick Release Push Lock Pins Used with most all Versarray™ rigging hardware

When using the Quick Release Positive Lock Pins, when the Quick Release Push Lock Pins are inserted, they should be fully seated, so that the black shoulder near the end of the pin has been placed flush with the side of the bracket, or as far in as the pin hole cavity will allow it to be inserted.

You will have to fully depress the center push-button to do this.

You should not be able to pull these pins out unless the center push-button is fully depressed.

Use of the Versarray™ Mk III Six Foot Fly Bar with the Versarray™ Mk III Halo

Specific Instructions for the basic flying and hanging of the Versarray™ Mk III Halo will not be supplied. It provides and follows industry standards for attaching rigging and fly hardware, as well as providing for the currently popular practice of hanging the array via a single hang point that can be a suitably rated chain hoist motor system.

Seek the recommendations of a certified structural engineer or an experienced rigging professional for any questions about this type of use of the Versarray™ Mk III Halo.

Basic instructions for attaching them to a VR Six Foot Flybar will be provided, due to the unique flexibility the Versarray™ system provides.

The Versarray™ Mk III Six Foot Fly Bar has multiple hang points, multiple Halo attachment locations, and a row of holes for use with an array pull-back line to aid in angling an array.

See Fig. 1.

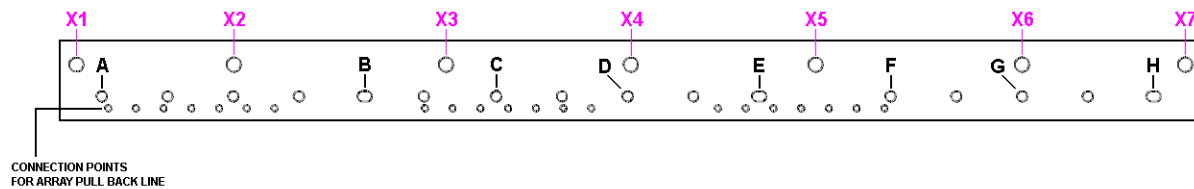


FIG. 1

Physically Possible Halo Hang Points

A and B, B and D, C and E, E and G, F and H. These hole combinations provide a 16" center to center distance which is what the VR Mk 3 Halo requires for interface. These are 0.656" diameter holes, as are the holes that line up with them horizontally.

Flypoint pairs that **will spatially allow attachment of two Halo's** at the same time:

AB with CE or EG or FH.

BD with EG or FH.

CE with AB or FH.

FH with AB or BD or CE.

Note that a particular pairing may not allow enough room for an array of VR112's to curve back without hitting a line of Subs, or a pairing may not provide the maximum rated system load capacity as stated in this manual.

Recommended Pairings for rated maximum system load capacity :

AB with FH is the pairing the load ratings are based on, along with upper fly points from X2 and X6.

Upper flypoints X1, X4 and X7 can also be used alternatively, if all three are used at the same time.

WARNING! USE OF ANY OTHER UPPER FLY POINTS OR HANG POINTS WILL NOT PROVIDE FOR THE MAXIMUM RATED LOAD CAPACITY AS STATED !!!

DO NOT FLY THREE HALO's FROM THE 6 FOOT BAR AT THE SAME TIME !

X1 thru X7 are flypoints for connecting to overhead rigging points. These are 0.906" diameter holes, and can take up to a 7/8" pin from a forged steel (alloy) Screw-pin Anchor Shackle. A 3/4" diameter pin will also work, as long as it has sufficient rated WLL for the use.

Holes A thru H are for connection of the Versarray™ Mk III HALO to the VR Six Foot Flybar, for which bolts have been supplied with the Halo's to make this connection.

Array Cabinet Pull Back Line connection points are 0.400" in diameter, and used to help with cabinet array angle control in the vertical dimension, in terms of pull-back angle and helping to relieve stress on the Halo and it's connections.

DO NOT ANGLE THE 6 FOOT BAR MORE THAN 10 DEGREES FROM HORIZONTAL!

DO NOT USE THE 6 FOOT BAR FOR A SINGLE SUSPENSION POINT HANG SITUATION, IT IS NOT DESIGNED FOR THIS USE, AND DOES NOT HAVE THE NECESSARY BALANCE POINTS DESIGNED INTO IT'S HOLE LOCATIONS, ETC.

Specifications

Crest Audio® Versarray™ Mk III HALO FG# 03617370

Connects Versarray™ 112 and 215 Sub speakers to overhead rigging. Provides four M20 X 2.5 mm thread forged steel eyebolts for traditional rigging on the top of the halo; halo center bar has 8 single-point hang locations to balance the Halo, and an optional 2 foot fly bar increases the number of separate and distinct balance points to 29. A pair can be flown at one time using the optional Crest Audio® Versarray™ Mk III Six Foot Fly Bar. Includes quick-lock pins to mate to optional fly bar and the first VR112 cabinet in a line.

Specifications:

Overall Dimensions, Including Pins and Eyebolts, etc. H x W x D:

11.63" X 27.44" X 20.63" (29.5 cm X 69.7 cm X 52.4 cm)

Halo Only Dimensions H x W x D:

11.63" X 25.50" X 20.63" (29.5 cm X 64.8 cm X 52.4 cm)

Weight: 64 lbs.

Material: All steel construction, 2" by 3" welded steel frame tubing with 3/16" wall thickness, center bar 1 / 2 " thick by 3" solid steel with eight 23mm rigging holes along the center of it's length, Halo coupling mounts for the cabinet front hang straps are dual 1/8" thick steel plates, one pair on each side.

Finish: Entire Halo is flat black powder coated paint finish.

Working Load Limit: 544 kg / 1,200 lbs. for Ultimate Strength Design Factor of 10:1
(This meets PLASA North America criteria and typically exceeds local USA safety requirements.)

Working Load Limit: 453 kg / 1,000 lbs. for Ultimate Strength Design Factor of 12:1
(This is in compliance with the European Union mandated Safety Factor)

Maximum Number of Versarray™ 112 Mk3 passive cabinets: 15

Maximum Number of Versarray™ Pro 112 Powered cabinets: 15

Maximum Number of Versarray™ Pro 215 Powered Sub cabinets: 7 for N.America (PLASA), 6 for European Union

(Note: VR215 Pro Sub cabinets do NOT articulate or angle, they must be hung at a zero degree angle. Therefore, we recommend that they be hung at the top of a line.)

Can fly up to 7 Versarray™ Pro 215 Powered Subs, or 15 Versarray™ 112 Mk3 or Pro 2-Ways

Maximum Combined Number of Versarray™ 112 Mk3 or Pro 2-Ways and Versarray™ Pro 215 Powered Sub cabinets:

MIX OF SUBS VERSUS VR Pro 112

Subs	VR Pro 112	
	EU	N. America

0	12	15
1	9	11
2	7	9
3	5	7
4	3	5
5	1	3
6	0	1
7*	X	0

MIX OF SUBS VERSUS VR 112 Mk3

Subs	VR 112 Mk3	
	EU	N. America

0	14	15
1	10	13
2	8	10
3	5	8
4	3	6
5	1	4
6	0	1
7*	X	0

*North America (PLASA) ONLY!



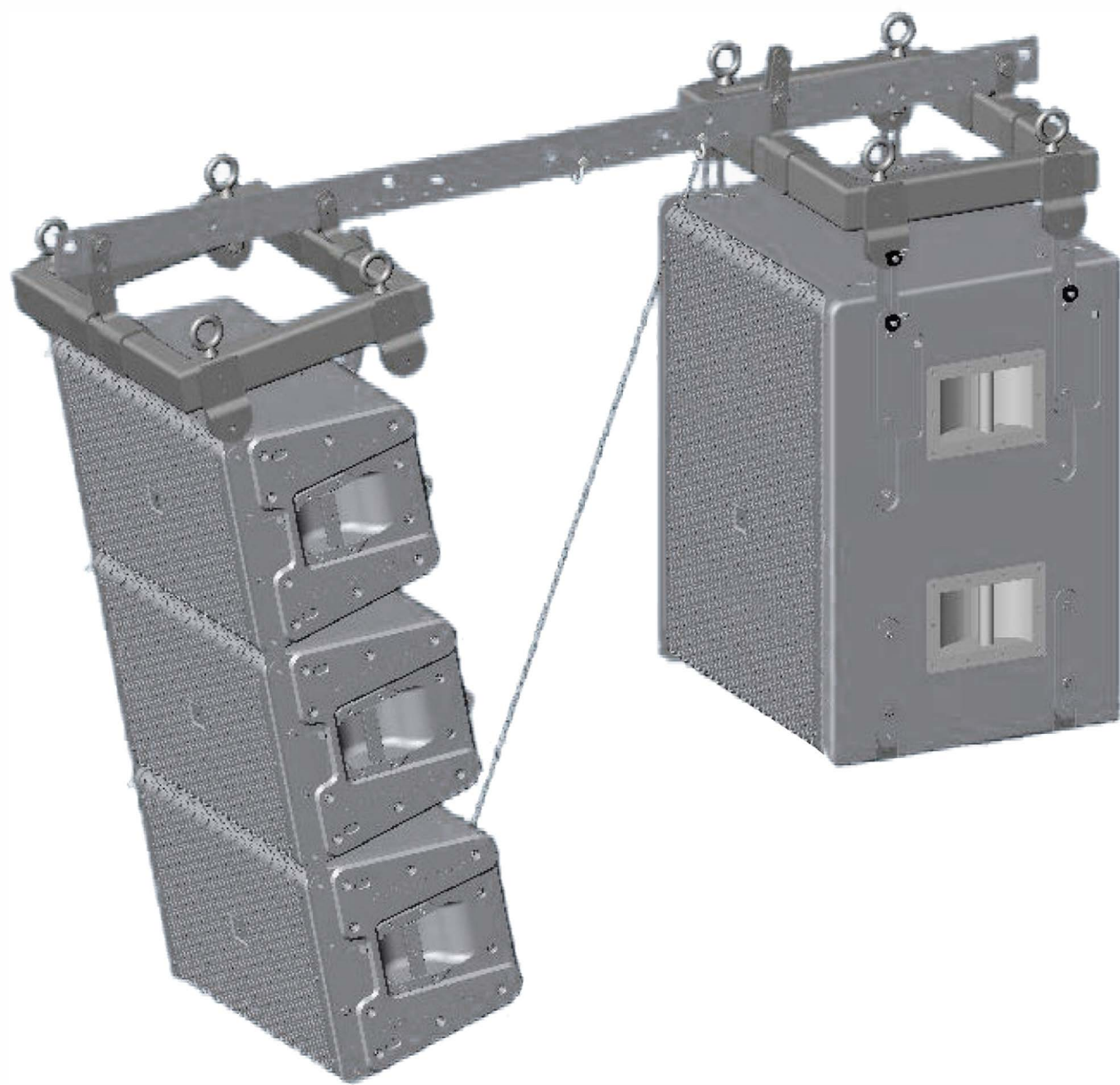
WARNING!

Crest Audio® is not liable for any injuries or damages that could potentially occur if the specified Working Load Limit is exceeded for any of the Versarray™ FlyQWIK™ rigging components or system configurations.

If there is any question about the capacity of a given configuration of rigging hardware and cabinets, you should consult with a certified structural engineer or a qualified rigging professional before installing the system.

Maximum Pull-Back Angle. 10 degrees

Design and specifications subject to change without notice.





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or use the QR tag below



Features and specifications subject to change without notice.

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Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/36, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005