

User Guide







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Introduction

DDX Series



Thank you for purchasing this Martin Audio DDX loudspeaker system.

The Martin Audio DDX Series has been designed to deliver high performance sound in permanent installations or as a portable system.

All DDX loudspeakers are constructed from birch/poplar plywood and finished with a durable black textured paint, with white a white option available to order.

DDX full range loudspeakers use two-way, full-range patent protected coaxial differential dispersion drivers. They have an internal passive crossover for cost effective and easy deployment.

The DDX118 subwoofer uses a high performance 18" driver in a cabinet tuned to give best possible performance.

A range of installation accessories is also available. Wall brackets is suitable for first and second fix construction industry conventions.

The user guide provides a detailed explanation of the DDX's features and options. Please take the time to read through the guide before deployment.

Safety First

Professional loudspeakers can produce high sound levels and should be used with care. Hearing loss is cumulative and can result from levels above 90dB if people are exposed for a long period. Never stand close to loudspeakers driven at high level.



Coaxial Differential Dispersion Technology

All DDX Series full-range models feature Martin Audio's unique, patent protected coaxial differential dispersion technology.

Non-coaxial systems can suffer from uneven frequency response in the crossover region because of interference between the LF and HF sections. Depending on the listening position, this causes off-axis variations in frequency response.

A disadvantage of conventional coaxial devices is that coverage angle reduces at higher frequencies, due to inadequate waveguides. DDX devices overcome this by using a static waveguide that merges seamlessly with the unique cone shape, maintaining the dispersion pattern even at very high frequencies.

A differential dispersion driver has an asymmetric coverage pattern. Wide coverage at the bottom of the vertical coverage angle and narrower at the top. This covers the target area more evenly than a system with a conventional, fixed-dispersion type driver as the wide section covers more audience in the near field, and the narrow section projects sound better to the rear of the space.



Conventional X x Y loudspeaker coverage

DDX driver coverage



Accessories

Wall Brackets



The DDX rear mounting configuration is compatible with Martin Audio wall brackets. These two-part brackets enable the wall mounting section to be installed during the first stage fix when cables are run. The cabinet section can be fitted to the loudspeaker and installed during the second stage fix detailed on page 14.

The brackets for each model are as follows:

DDX8	WB6/8B
DDX10	WB10/12B
DDX12	WB10/12B
DDX15	N/A

Yokes



A yoke to fly the DDX12 or DDX15 from a truss clamp or other suitable fixing is available.

The brackets for each model are as follows:

- DDX12 CDDLYA12
- DDX15 CDDLYA15





Eye Bolts



All DDX Series loudspeakers have threaded inserts available for flown applications in fixed installations. Full range cabinets have M8 inserts and subwoofers have M10 inserts. The inserts can be used for fitting bespoke flying hardware or eye bolts. These must be forged steel shouldered types certified with a safe working load of the cabinet weight.

Do not be tempted to use formed steel types commonly available from DIY stores as they are unsafe for flying heavy loudspeaker cabinets. Correctly rated shouldered eye bolts are available from Martin Audio as an optional accessory.

Part numbers:

M8	HTK00003
M10	HTK00004

Pole



DDX loudspeakers have integral pole mount "top hat" 35mm fittings for use with regular 35mm loudspeaker stands and accessories. The pole mount in the subwoofers accommodates a distance pole for DDX full-range cabinets.

Part number:

Pole HTKCT04

MARTIN AUDIO L O N D O N

Installation

Pole Mounting





When using poles or stands, the following precautions are advised:

- Ensure that the stand will support the weight of the loudspeaker by checking the stand manufacturers rating. (See the technical specifications for individual DDX weights and dimensions.)
- Make sure that the stand is placed on a level surface and that its legs are fully extended.
- Do not place more than one loudspeaker on each stand.
- Run cables so that they do not present a trip hazard which could pull the loudspeaker over.
- When used outdoors in the wind, it may be necessary to add some weight to the base of the stand.
- When using a pole mount with a sub-bass system, observe similar precautions.

Stacking

- Ensure that the floor or stage is level and solid.
- Do not stack loudspeakers too high outdoors where winds could topple the stack.
- Be aware that loudspeakers producing very high sound levels can move or creep. To avoid this, place friction material between the floor and loudspeaker and between each loudspeaker or use strapping to secure the stack.





Wall Mounting

DDX8, DDX10 and DDX12 may be wall mounted either in portrait or landscape orientation.

Do not forget that it is important to rotate the driver through 90° when using a DDX cabinet in landscape mode. Please see the chapter on grille removal and driver rotation for details on how this is achieved.

Installation is a two-part process in common with standard first fix and second fix procedures, installation using both sizes of brackets is identical, the WB10/12 bracket is just larger than the WB6/8 version.

The first step is to separate the two halves of the bracket. There are two horizontally mounted nut and bolts holding the two halves together. The upper one which sits in a curved slot does NOT need to be removed. Unscrew the lower bolt and the cabinet bracket will lift off the wall bracket.



First fix is to secure the wall section of the bracket. This is the part with four mounting holes, a vertical bolt holding the section which allows horizontal adjustment and the slot into which the cabinet bracket bolt sits. Use appropriate wall fixings suitable for the composition of the wall. These must be of sufficient strength to support the weight of the loudspeaker; 8kg for the DDX8, 14kg for the DDX10 and 17kg for the DDX12.







The next step is to attach the cabinet section of the bracket to the cabinet. This is the bracket with four countersunk fixing holes on a square pattern with the horizontal bolt in the curved slot.

The rear of the cabinet has six countersunk bolts fitted designed for use with the mounting brackets. For portrait mode remove the lower four bolts, for landscape mode remove the middle four.



Position the bracket over the required holes that suit the orientation required and screw into place tightly using the bolts removed from the cabinet.



For landscape orientation use the four holes closest to the middle and attach the bracket at right angles to the cabinet.



You are now ready to fit the loudspeaker to the wall. Offer the loudspeaker up to the bracket so you can hook horizontal bolt in the curved slot onto the notch on the ball bracket. Make sure that you follow appropriate safety measures if you are working at height such as using a scaffold tower or lifting platform which allows you to safely use both hands for this.









Once the bracket is hooked together and taking the weight of the cabinet you can replace the lower bolt.



Final adjustments can now be made. Horizontal (pan) adjustment is available by rotating the assembly on the vertical bolt. When you are happy with the angle, the vertical securing bolt can be tightened. For WB8/6 use an M5 hex key and for WB10/12 use an M6 hex key.



Vertical (tilt) adjustment is made by adjusting the grub screw.



Once the vertical position is fixed the two horizontal bolts can be tightened. This is best achieved by using a socket set with an extender bar to reach the bolt heads.







Eye Bolts

All DDX systems have threaded inserts rated for flown installations. Full range enclosures have M8 threaded inserts and subs have M10 inserts. Most commonly these are used in conjunction with shouldered eye bolts for suspending the cabinets using appropriately rated chain or steel wire. Martin Audio's HTK00003 (M8) and HTK00004 (M10) are rated for use in flown applications. Note that if you plan to use alternative eye bolts these must be shouldered cast steel, not formed steel types commonly available from DIY stores. They must have a safe working load rating compatible with the weight of the cabinets.



All models can be flown in portrait or landscape format. Note that the driver must be rotated when the cabinet is used in landscape mode. Please see the chapter on grille removal and driver rotation.

We recommend using a minimum of four eye bolts with which to suspend the cabinet irrespective of which orientation is used. In most applications, two eye bolts are used as the primary support left and right. A third attaches to the rear of the cabinet and is used to adjust the down-tilt of the cabinet as required. The fourth eye bolt is used to attach a secondary safety line which should be attached to a secure mounting point, which is independent of the primary flying point, around a girder or similar.









Suspending the Cabinet

WARNING: Suspending the system should only be done by qualified personnel following safe rigging practices. Secure fixings to the building structure are vital. Seek help from architects, structural engineers or other specialists if in any doubt.

DDX Series enclosures can be suspended singly by means of the threaded inserts provided. Enclosures are fitted internally with steel corner reinforcement brackets, where necessary, to ensure that each cabinet is strong enough to be hung from its top.

- Never suspend one enclosure from another to form an array or cluster using these fittings.
- Only use forged shoulder eye bolts. It is important that the thread length is at least 30mm.
- Formed eye bolts i.e. those which are formed from a steel rod bent into an eye are not recommended.
- Eye bolts are strongest along the thread axis. Angling the enclosure will result in an angle pull and it is important to use eye bolts that are safe in these circumstances.
- Check that the eye bolt has a safe working load that is greater than the weight of the loudspeaker being suspended.

Mounting Location

For optimum performance it is recommended to mount the loudspeakers above head height as this gives clear line of sight to the target area.

Vertical aiming angles for DDX loudspeakers are generally less than needed with a symmetrical dispersion loudspeaker. Mapping DDX in simulation software such as EASE will help decide how much vertical angle is appropriate.





First and Second Stage Fixing

Construction industry practice favours first and second fixing stages. This system gives installers the advantage of being able to pull cables and make primary fixings at an earlier stage of building completion and avoids the potential problems of leaving expensive and delicate audio equipment in-situ while building and decoration work is still ongoing.

All DDX Series wall brackets disassemble into separate first fix and second fix components. This means that part of the bracket may be secured to the wall or ceiling at first fix, without the necessity of having the cabinet on site. The rest of the bracket can then be fitted to the cabinet at floor level at second fix and then the two parts of the bracket easily mated.

The two fixing stages may be summarised as follows.

First Stage Fixing

Attach first fix sections of wall brackets at desired locations. Run loudspeaker cables to loudspeaker locations, using cable access holes provided in brackets.

Important information: Consult a qualified structural engineer with a full knowledge of the building, its load ratings and your intended loudspeaker installation plans before commencing any installation. The type and size of fixings used must take into account both the weight of the enclosure and the construction of the wall or ceiling.

Second Stage Fixing

Attach second fix sections of brackets to rear of cabinets. Raise cabinets to height and mate with first fix bracket sections. Adjust pan and/ or tilt as required.

Important information: In some cases, local regulations may require a safety bond (e.g. wire or chain) to form part of the final fix. The complete installation should be checked and approved by a qualified structural engineer and a qualified electrical safety consultant before being signed off.



Grille Removal and Driver Rotation

The DDX full range cabinets may be used in portrait or landscape orientation. For the loudspeaker to perform correctly when in landscape orientation it is necessary to rotate the driver through 90° to preserve the asymmetric dispersion. The loudspeakers are designed to make this as straightforward as possible with spring-loaded grilles which are easily removed, and with drivers secured with hexagonal head screws. It is also possible to rotate the Martin Audio badge on the grille.

Grille Removal

No screws are used to hold the grille in place. The grilles are manufactured with a natural spring which holds them in place within slots on each side of the cabinets.

The grilles have two or three gaps in the sides into which an appropriately sized flat-bladed screwdriver can be inserted to remove the grille.

Insert the screwdriver blade into one of the gaps, either at the top or bottom of the cabinet.



Gently push the handle down. This will ease the grille out of the slot, it may have bitten into the paint surface so you just need to make sure it is free to be lifted clear.



Now lift the handle up. This will ease the grille forward slightly to prevent the return on the grille dropping straight back into the slot.





Repeat this process for the remaining gaps in the grille to ease it out of the slot all the way up one side of the cabinet. When you get to the final gap the grille should pop out and away from the front of the cabinet.

To replace the grille, first insert one side into the slot on one side of the cabinet. Make sure the return on the grille is completely engaged in the slot. Push on the front of the grille with the flat of your hand, which will encourage the other edge of the grille to locate on the side of the cabinet close to the slot. Now push the edge of the grille back starting at the top or the bottom to engage the return in the slot. You may need to do this a little at a time, working down the length of the grille until it pops into place.





Driver Rotation

DDX loudspeakers are shipped from the factory ready for deployment in vertical – or portrait – orientation. If the loudspeakers are installed horizontally, the coaxial driver must be rotated through 90° to maintain the correct dispersion patterns.

DDX coaxial drivers are not symmetrical. For correct dispersion characteristics the driver should always be orientated as shown, with the narrowest part of the HF waveguide towards the bottom of the enclosure.



Narrow aperture at the bottom gives wider coverage at the bottom of the vertical coverage pattern

To rotate the driver, proceed as follows once the grille has been removed:

Using a hex key:

DDX8	4 mm
DDX10	4 mm
DDX12	5 mm
DDX15	5 mm

Remove the screws securing the driver to the baffle board. There will be between four and eight screws depending on the loudspeaker model.

Lift the driver assembly out and rotate it through 90°.





Replace the bolts and the grille.

Note: If the loudspeaker in portrait mode is installed upside down the driver must be rotated through 180° to ensure the correct dispersion characteristics.





Badge Rotation

In landscape the Martin Audio badge should be rotated on the grille. The badge is spring-loaded and very easy to rotate.



The badge is easier to rotate if the grille is first removed. With the grille removed push the spigot holding the badge into place so that the badge is protruding forward from the grille and is proud of the recess in which it sits. Rotate the badge as required and release the spigot on the rear so it settles back into the recess in the grille.



Note: The badge is supplied with a plastic film to protect it from scratches. This can be removed after purchase.



DSP and **Amplification**



DX0.5

The DX0.5 is a professional two-input, six-output loudspeaker management system.

The DX0.5 provides crossover functions, five parametric/shelving filters on each input and seven filters on each output. Level control, muting and delay are available on all inputs and outputs, along with the output limiters which are critical for correct driver protection. With 24 memory locations in the unit suitable for storing presets for each DDX model.

The full DX0.5 User Guide is available online at <u>www.martin-audio.com</u> and includes numerous examples of system wiring.



DX4.0 and iKON Amplifiers

DDX loudspeakers can also be used with DX4.0 or iKON amplifiers. When connected to these devices via a network and running VU-NET software on a PC, you can recall presets from the amplifier for each type of loudspeaker.

Using Alternative Processors

You can download our loudspeaker parameter spreadsheet from the <u>support section</u> of our website. This provides detailed settings for all models including crossover, limiters and equalisation points. There are comprehensive instructions provided on the spreadsheet and a video guide is also available in the same location of the website.





Specifications

DDX8

ТҮРЕ	Ultra-Compact, coaxial differential dispersion passive
	two-way system
FREQUENCY RESPONSE (5)	70Hz-20kHz ± 3dB, -10dB @ 55Hz
DRIVERS	LF: 8" (200mm)/2" (50mm) voice coil, long excursion, shared
	ferrite motor system with HF
	HF: 1" (25mm) exit/1.4" (38mm) voice coil, polyimide dome
	compression driver
RATED POWER (2)	200W AES, 800W peak
RECOMMENDED AMPLIFIER	VIA 2502 or VIA 2004
SENSITIVITY (8)	94dB
MAXIMUM SPL (9)	117dB continuous, 123dB peak
NOMINAL IMPEDANCE	8Ω
DISPERSION	110°-80° horizontal, 60° vertical (user-rotatable)
CROSSOVER	2.3kHz passive
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/1-
PIN CONNECTIONS	1+/- to 1+/-
FITTINGS	13 x M8, 6 x M6 inserts, pole-mount socket, 1 x pocket handle
DIMENSIONS	(W) 257mm x (H) 422mm x (D) 243mm
	(W) 10.1ins x (H) 16.6ins x (D) 9.6ins
WEIGHT	10.5kg (23.15lbs)
ACCESSORIES	Wall bracket, eyebolts, pole



TYPE	Compact, coaxial differential dispersion passive
	two-way system
FREQUENCY RESPONSE (5)	65Hz-20kHz ± 3dB, -10dB @ 55Hz
DRIVERS	LF: 10" (250mm)/2.5" (63.5mm) voice coil, long excursion,
	shared ferrite motor with HF
	HF: 1" (25mm) exit/1.4" (38mm) voice coil, polyimide dome
	compression driver
RATED POWER (2)	250W AES, 1000W peak
RECOMMENDED AMPLIFIER	VIA 2502 or VIA 2004
SENSITIVITY (8)	96dB
MAXIMUM SPL (9)	120dB continuous, 126dB peak
NOMINAL IMPEDANCE	8Ω
DISPERSION	110°-75° horizontal, 60° vertical (user-rotatable)
CROSSOVER	2kHz passive
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/1-
PIN CONNECTIONS	1+/- to 1+/-
FITTINGS	19 x M8 inserts, pole-mount socket, 1 x bar handle
DIMENSIONS	(W) 324mm x (H) 522mm x (D) 289mm
	(W) 12.8ins x (H) 20.6ins x (D) 11.4ins
WEIGHT	13.7kg (30.20lbs)
ACCESSORIES	Wall bracket, eyebolts, pole



DDX12

ТҮРЕ	Compact, high-output, Coaxial Differential Dispersion passive
	two-way system
FREQUENCY RESPONSE (5)	62Hz-20kHz ± 3dB, -10dB @ 50Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, long
	excursion, shared ferrite motor with HF
	HF: 1" (25mm) exit/1.7" (44mm) voice coil,
	polyimide dome compression driver
RATED POWER (2)	300W AES, 1200W peak
RECOMMENDED AMPLIFIER	VIA2502 or VIA5002 or VIA5004
SENSITIVITY (8)	97dB
MAXIMUM SPL (9)	122dB continuous, 128dB peak
NOMINAL IMPEDANCE	8Ω
DISPERSION	110°-60° horizontal, 60° vertical (user-rotatable)
CROSSOVER	1.9kHz passive
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/1-
PIN CONNECTIONS	1+/- to 1+/-
FITTINGS	20 x M8 inserts, pole-mount socket, 1 x bar handle
DIMENSIONS	(W) 358mm x (H) 574mm x (D) 337mm
	(W) 14.1ins x (H) 22.6ins x (D) 13.7ins
WEIGHT	18kg (39.68lbs)
ACCESSORIES	Wall bracket, eyebolts, pole



ТҮРЕ	High-output, Coaxial Differential Dispersion passive
	two-way system
FREQUENCY RESPONSE (5)	55Hz-18kHz ± 3dB, -10dB @ 45Hz
DRIVERS	LF: 15" (380mm)/3" (75mm) voice coil, long excursion,
	shared ferrite motor system with HF
	HF: 1.4" (36mm) exit/3" (75mm) voice coil, titanium dome
	compression driver
RATED POWER (2)	400W AES, 1600W peak
RECOMMENDED AMPLIFIER	VIA5002 or VIA5004
SENSITIVITY (8)	100dB
MAXIMUM SPL (9)	126dB continuous, 132dB peak
NOMINAL IMPEDANCE	8Ω
DISPERSION	100°-60° horizontal, 60° vertical (user-rotatable)
CROSSOVER	1.6kHz passive
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/1-
PIN CONNECTIONS	1+/- to 1+/-
FITTINGS	19 x M8 inserts, pole-mount socket, 2 x bar handles
DIMENSIONS	(W) 427mm x (H) 690mm x (D) 419mm
	(W) 16.8ins x (H) 27.2ins x (D) 16.5ins
WEIGHT	26kg (57.32lbs)
ACCESSORIES	Eyebolts, pole



DDX118

TVDF	Compact direct redicting subweefer
DRIVER COMPLIMENT	18" (460mm) /4" (100mm) voice coil, long excursion,
	ferrite magnet
DISPERSION	Omnidirectional
MAX SPL	135dB
CONT SPL	129dB
FREQUENCY RESPONSE (1)	+/- 3dB, 42Hz-200Hz
FREQUENCY (1)	- 10dB, 33Hz
SENSITIVITY (10)	100dB per. 2.83V
CROSSOVER	80 - 120Hz active
RATED POWER (2) AES	800W
RECOMMENDED AMPLIFIER	VIA5002 or VIA5004
POWER HANDLING (2) PEAK	3200W
NOMINAL IMPEDANCE	8Ω
CONNECTORS	2 x NL4 type
PIN CONNECTIONS (INPUT)	1+ / 1- INPUT, 2+ /2- N/C
PIN CONNECTIONS (LINK)	1+/1-LINK, 2+/2-N/C
FITTINGS	16x M10, provision for castors, Pole mount socket
HANDLE TYPE	2 x Bar
DIMENSIONS (H x W x D)	537mm x 662mm x 640mm (incl feet)
WEIGHT (MAX)	40.65kg (89.62lbs)

 Notes

 (1)
 Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.

 (2)
 AES Standard ANSI S4.26-1984.

 (3)
 Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.

 (4)
 Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.

 (5)
 Measured in appen (4pi) space at 2 metres, then referred to 1 metre.

 (6)
 Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.

 (7)
 Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.

 (7)
 Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.

 (8)
 Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.

 (9)
 Calculated at 1 metre.

 (10)
 Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.

 (10)
 Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.



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Technical Drawings

















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DDX118











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536,00mm [21,12*]





Loudspeaker Bracket Dimensions





Warranty

Warranty Statement

Martin Audio DDX Series loudspeakers are warranted against manufacturing defects in materials or craftsmanship over a period of five years from the date of original purchase.

During the warranty period Martin Audio will, at its discretion, either repair or replace products which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorised Martin Audio service agent or distributor.

Martin Audio Ltd. cannot be held responsible for defects caused by unauthorised modifications, improper use, negligence, exposure to inclement weather conditions, act of God or accident, or any use of this product that is not in accordance with the instructions provided by Martin Audio. Martin Audio is not liable for consequential damages.

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Martin Audio Limited

Century Point Halifax Road

FOR SALES ENQUIRIES: Cressex Business Park High Wycombe Buckinghamshire UK HP12 3SL England

Telephone: +44 (0)1494 535312 E-mail: info@martin-audio.com

NORTH AMERICA

Telephone: 323-381-5310

www.martin-audio.com

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