



Portable Sound



D.A.R.T.

DIGITAL ACTIVE
REINFORCEMENT TOOL

Manual 2.0

English
Deutsch
Français
Español

Important Safety Instructions

Before connecting, read instructions

Important Advice on Safety!

Please read before use and keep for later use!

Wichtige Sicherheitshinweise!

Bitte vor Gebrauch lesen und für späteren Gebrauch aufbewahren!

- Read all of these instructions!
- Save these instructions for later use!
- Follow all warnings and instructions marked on the product!
- Do not use this product near water, i.e. bathtub, sink, swimming pool, wet basement, etc.
- Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product or to persons!
- Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. This product should not be placed in a built-in installation unless proper ventilation is provided.
- This product should not be placed near a source of heat such as a stove, radiator, or another heat producing amplifier.
- Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- Never break off the ground pin on the power supply cord.
- Power supply cords should always be handled carefully. Periodically check cords for cuts or sign of stress, especially at the plug and the point where the cord exits the unit.
- The power supply cord should be unplugged when the unit is to be unused for long periods of time.
- If this product is to be mounted in an equipment rack, rear support should be provided.
- This product should be used only with a cart or stand that is recommended by HK AUDIO®.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
- Clean only with dry cloth.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for the safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally when the operating instructions are followed.
 - If the product has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need of service!
- Adjust only these controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- Exposure to extremely high noise levels may cause a permanent hearing loss.
- Individuals vary considerably in susceptibility to noise induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level ^{dB} A, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

- According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss.
- Ear plug protectors in the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.
- Fuses: Replace with IEC 127 (5x 20 mms) type and rated fuse by best performance only.

TO PREVENT THE RISK OF FIRE AND SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO MOISTURE OR RAIN. DO NOT OPEN CASE; NO USER SERVICE-ABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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- The unit has been built by HK AUDIO® in accordance with IEC 60065 and left the factory in safe working order. To maintain this condition and ensure non-risk operation, the user must follow the advice and warning comments found in the operating instructions. The unit conforms to Protection Class 1 (protectively earthed).
- **HK AUDIO® ONLY GUARANTEE THE SAFETY, RELIABILITY AND EFFICIENCY OF THE UNIT IF:**
 - Assembly, extension, re-adjustment, modifications or repairs are carried out by HK AUDIO® or by persons authorized to do so.
 - The electrical installation of the relevant area complies with the requirements of IEC (ANSI) specifications.
 - The unit is used in accordance with the operating instructions.
 - The unit is regularly checked and tested for electrical safety by a competent technician.

WARNING:

- If covers are opened or sections of casing are removed, except where this can be done manually, live parts can become exposed.
- If it is necessary to open the unit this must be insulated from all power sources. Please take this into account before carrying out adjustments, maintenance, repairs and before replacing parts.
- The appliance can only be insulated from all power sources if the mains connection is unplugged.
- Adjustment, maintenance and repairs carried out when the unit has been opened and is still live may only be performed by specialist personnel who are authorized by the manufacturer (in accordance with VBG 4) and who are aware of the associated hazards.
- Loudspeaker outputs which have the IEC 417/5036 symbol (Diagram 1, below) can carry voltages which are hazardous if they are made contact with. Before the unit is switched on, the loudspeaker should therefore only be connected using the lead recommended by the manufacturer.
- Where possible, all plugs on connection cables must be screwed or locked onto the casing.
- Replace fuses only with IEC127 type and specified ratings.
- It is not permitted to use repaired fuses or to short-circuit the fuse holder.
- Never interrupt the protective conductor connection.
- Surfaces which are equipped with the "HOT" mark (Diagram 2, below), rear panels or covers with cooling slits, cooling bodies and their covers, as well as tubes and their covers are purposely designed to dissipate high temperatures and should therefore not be touched.
- High loudspeaker levels can cause permanent hearing damage. You should therefore avoid the direct vicinity of loudspeakers operating at high levels. Wear hearing protection if continuously exposed to high levels.

MAINS CONNECTION:

- The unit is designed for continuous operation.
- The set operating voltage must match the local mains supply voltage.
- The unit is connected to the mains via the supplied power unit or power cable.
- Power unit: Never use a damaged connection lead. Any damage must be rectified by a competent technician.
- Avoid connection to the mains supply in distributor boxes together with several other power consumers.
- The plug socket for the power supply must be positioned near the unit and must be easily accessible.

PLACE OF INSTALLATION:

- The unit should stand only on a clean, horizontal working surface.
- The unit must not be exposed to vibrations during operation.
- Keep away from moisture and dust where possible.
- Do not place the unit near water, baths, wash basins, kitchen sinks, wet areas, swimming pools or damp rooms. Do not place objects containing liquid on the unit - vases, glasses, bottles etc.
- Ensure that the unit is well ventilated.
- Any ventilation openings must never be blocked or covered. The unit must be positioned at least 20 cm away from walls. The unit may only be fitted in a rack if adequate ventilation is ensured and if the manufacturer's installation instructions are followed.
- Keep away from direct sunlight and the immediate vicinity of heating elements and radiant heaters or similar devices.
- If the unit is suddenly moved from a cold to a warm location, condensation can form inside it. This must be taken into account particularly in the case of tube units. Before switching on, wait until the unit has reached room temperature.
- Accessories: Do not place the unit on an unsteady trolley, stand, tripod, base or table. If the unit falls down, it can cause personal injury and itself become damaged. Use the unit only with the trolley, rack stand, tripod or base recommended by the manufacturer or purchased together with the unit. When setting the unit up, all the manufacturer's instructions must be followed and the setup accessories recommended by the manufacturer must be used. Any combination of unit and stand must be moved carefully. A sudden stop, excessive use of force and uneven floors can cause the combination of unit and stand to tip over.
- Additional equipment: Never use additional equipment which has not been recommended by the manufacturer as this can cause accidents.
- To protect the unit during bad weather or when left unattended for prolonged periods, the mains plug should be disconnected. This prevents the unit being damaged by lightning and power surges in the AC mains supply.

Diagram 1



Diagram 2



- Das Gerät wurde von HK AUDIO® gemäß IEC 60065 gebaut und hat das Werk in sicherheitstechnisch einwandfreiem Zustand verlassen. Um diesen Zustand zu erhalten und einen gefahrlosen Betrieb sicherzustellen, muss der Anwender die Hinweise und die Warnvermerke beachten, die in der Bedienungsanleitung enthalten sind. Das Gerät entspricht der Schutzklasse I (schutzgeerdet).
- **DIE SICHERHEIT, ZUVERLÄSSIGKEIT UND LEISTUNG DES GERÄTES WIRD VON HK AUDIO® NUR DANN GEWÄHRLISTET, WENN:**
 - Montage, Erweiterung, Neueinstellung, Änderungen oder Reparaturen von HK AUDIO® oder von dazu ermächtigten Personen ausgeführt werden.
 - die elektrische Installation des betreffenden Raumes den Anforderungen von IEC (ANSI)-Festlegungen entspricht.
 - das Gerät in Übereinstimmung mit der Gebrauchsanweisung verwendet wird.

WARNUNG:

- Wenn Abdeckungen geöffnet oder Gehäuseteile entfernt werden, außer wenn dies von Hand möglich ist, können Teile freigelegt werden, die Spannung führen.
- Wenn ein Öffnen des Gerätes erforderlich ist, muss das Gerät von allen Spannungsquellen getrennt sein. Berücksichtigen Sie dies vor dem Abgelenk, vor einer Wartung, vor einer Instandsetzung und vor einem Austausch von Teilen.
- Ein Abgelenk, eine Wartung oder eine Reparatur am geöffneten Gerät unter Spannung darf nur durch eine vom Hersteller autorisierte Fachkraft (nach VBG 4) geschehen, die mit den verbundenen Gefahren vertraut ist.
- Lautsprecher-Ausgänge, die mit dem IEC 417/5036-Zeichen (Abb.1, s.unten) versehen sind können berührungsfähige Spannungen führen. Deshalb vor dem Einschalten des Gerätes Verbindung nur mit dem vom Hersteller empfohlenen Anschlusskabel zum Lautsprecher herstellen.
- Alle Stecker an Verbindungskabeln müssen mit dem Gehäuse verschraubt oder verriegelt sein, sofern möglich.
- Es dürfen nur Sicherungen vom Typ IEC 127 und der angegebenen Nennstromstärke verwendet werden.
- Eine Verwendung von geflickten Sicherungen oder Kurzschließen des Halters ist unzulässig.
- Niemals die Schutzleiterverbindung unterbrechen.
- Oberflächen, die mit dem "HOT"-Zeichen (Abb.2, s.unten) versehen sind, Rückwände oder Abdeckungen mit Kühlschlitzen, Kühlkörper und deren Abdeckungen, sowie Röhren und deren Abdeckungen können im Betrieb erhöhte Temperaturen annehmen und sollten deshalb nicht berührt werden.
- Hohe Lautstärkepegel können dauernde Gehörschäden verursachen. Vermeiden Sie deshalb die direkte Nähe von Lautsprechern, die mit hohen Pegeln betrieben werden. Verwenden Sie einen Gehörschutz bei dauernder Einwirkung hoher Pegel.

NETZANSCHLUSS:

- Das Gerät ist für Dauerbetrieb ausgelegt.
- Die eingestellte Betriebsspannung muss mit der örtlichen Netzspannung übereinstimmen.
- Der Anschluss an das Stromnetz erfolgt mit dem mitgelieferten Netzteil oder Netzkabel.
- Netzteil: Eine beschädigte Anschlussleitung kann nicht ersetzt werden. Das Netzteil darf nicht mehr betrieben werden.
- Vermeiden Sie einen Anschluss an das Stromnetz in Verteilerdosen zusammen mit vielen anderen Stromverbrauchern.
- Die Steckdose für die Stromversorgung muss nahe am Gerät angebracht und leicht zugänglich sein.

AUFSTELLUNGORT:

- Das Gerät sollte nur auf einer sauberen, waagerechten Arbeitsfläche stehen.
- Das Gerät darf während des Betriebs keinen Erschütterungen ausgesetzt sein.
- Feuchtigkeit und Staub sind nach Möglichkeit fernzuhalten.
- Das Gerät darf nicht in der Nähe von Wasser, Badewanne, Waschbecken, Küchenspüle, Nassraum, Swimmingpool oder feuchten Räumen betrieben werden. Keine mit Flüssigkeit gefüllten Gegenstände -Vase, Gläser, Flaschen etc. auf das Gerät stellen.
- Sorgen Sie für ausreichende Belüftung der Geräte.
- Eventuelle Ventilationsöffnungen dürfen niemals blockiert oder abgedeckt werden. Das Gerät muß mindestens 20 cm von Wänden entfernt aufgestellt werden. Das Gerät darf nur dann in ein Rack eingebaut werden, wenn für ausreichende Ventilation gesorgt ist und die Einbauanweisungen des Herstellers eingehalten werden.
- Vermeiden Sie direkte Sonneneinstrahlung sowie die unmittelbare Nähe von Heizkörpern und Heizstrahlern oder ähnlicher Geräte.
- Wenn das Gerät plötzlich von einem kalten an einen warmen Ort gebracht wird, kann sich im Geräterinnen Kondensfeuchtigkeit bilden. Dies ist insbesondere bei Röhrengeräten zu beachten. Vor dem Einschalten solange warten bis das Gerät Raumtemperatur angenommen hat.
- Zubehör: Das Gerät nicht auf einen instabilen Wagen, Ständer, Dreifuß, Untersatz oder Tisch stellen. Wenn das Gerät herunterfällt, kann es Personenschäden verursachen und selbst beschädigt werden. Verwenden Sie das Gerät nur mit einem vom Hersteller empfohlenen oder zusammen mit dem Gerät verkauften Wagen, Rack, Ständer, Dreifuß oder Untersatz. Bei der Aufstellung des Gerätes müssen die Anweisungen des Herstellers befolgt und muss das vom Hersteller empfohlene Aufstellzubehör verwendet werden. Eine Kombination aus Gerät und Gestell muss vorsichtig bewegt werden. Plötzliches Anhalten, übermäßige Kraftanwendung und ungleichmäßige Böden können das Umkippen der Kombination aus Gerät und Gestell bewirken.
- Zusatzvorrichtungen: Verwenden Sie niemals Zusatzvorrichtungen, die nicht vom Hersteller empfohlen wurden, weil dadurch Unfälle verursacht werden können
- Zum Schutz des Gerätes bei Gewitter oder wenn es längere Zeit nicht beaufichtigt oder benutzt wird, sollte der Netzstecker gezogen werden. Dies verhindert Schäden am Gerät aufgrund von Blitzschlag und Spannungstößen im Wechselstromnetz.

Abb.1

Abb.2





Welcome to the HK AUDIO® family!

Thank you for choosing (another) HK AUDIO® product.

D.A.R.T is an all-in-one monitoring solution comprising loudspeakers, power amps, and integrated control circuitry painstakingly fine-tuned specifically for these components.

In their quest for superior audio performance, our engineers went so far as to develop new technologies specifically for D.A.R.T. Five unique features make D.A.R.T by HK AUDIO® stand out in the crowd of powered monitor cabinets.

Guarantee

Register your D.A.R.T using the enclosed registration card and your warranty will be extended by five years free of charge!

Use the convenient **Online Registration** on www.hkaudio.com.

If you cannot register online, please fill out the enclosed guarantee card completely, and send it to us by post or fax. The registration is only valid if the fully completed registration card is sent to HK AUDIO® within 30 days of the date of purchase, or if registration via the Internet has been effected within the period stipulated. Furthermore, we would like to know more about who uses our equipment and where. This information supports future product development. Your personal data is, of course, assured by data protection.

Thank you!

HK AUDIO®

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Digital amping

More efficiency and dynamics.

With an extremely high efficiency of over 90% Class-D digital amps are considerably smaller, lighter, and more compact than conventional amps. The lower thermal load of the components enhances reliability. The considerably faster slew rate and the higher damping factor are audible in the system's transient response and more accurate performance.

OFR™

Optimized Frequency Response Technology

HK AUDIO's unique OFR™ technology deliver commanding yet well-balanced sound at every level. It corrects for non-linear frequency response in the speaker components at the same time as it compensates for the way human hearing works at varying levels.

MultiBand Limiting

Specialized limiting for each frequency range

Several limiters, each specializing in its own frequency range, work side by side to keep the entire system under control. This ensures even dynamic response and punchy projection for a highly musical sound across the entire frequency spectrum.

Subsonic Filter

Preventing Low Frequency Interference

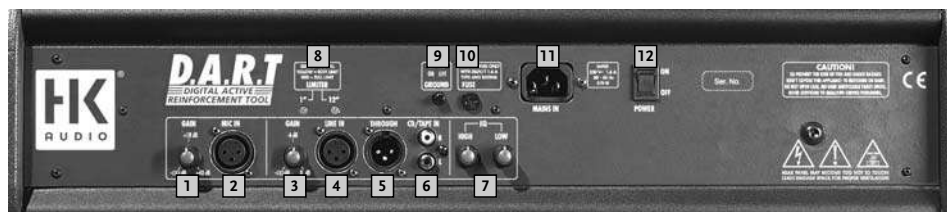
The integrated subsonic filter eliminates accidental and unintentional signals such footfalls, wind, or the sound of a hand accidentally brushing a microphone. It cuts these frequencies drastically, freeing energy to render bass impulses better. Goodbye squashed dynamics and artificial sound, hello authenticity and natural sounding low/mid frequencies.

DuoTilt™

Making the most of sonic energy

The new DuoTilt™ speaker stand mounting collars allow for a more efficient use of sound energy. With two possible downward angles (7,5°, 15°) to better aim the satellite speakers directly at the audience, troublesome ceiling reflections are minimized for a tighter, clearer sound.





D.A.R.T's rear panel

1 D.A.R.T Control Features

1 Gain Mic In

Twist this knob to adjust the microphone's level.

Note: You can adjust the microphone and line inputs separately and mix them as desired.

2 Mic In

This electronically balanced XLR input is designed to take a microphone. (pin 1 = ground, 2 = +, 3 = -).

3 Gain Line In

This knob lets you adjust the power amp to match the input signal level; helps you prevent distortion when you're patching in signals with higher levels.

4 Line In

Electronically balanced XLR input designed to accept signals from the output of a mixing console (pin 1 = ground, pin 2 = +, pin 3 = -).

5 Through

Parallel output for routing the Line signal to other components, for instance, to additional D.A.R.T monitors.

6 CD/Tape In

RCA phono jack input for external signal sources such as CD players or tape decks. The incoming stereo signal is mixed down to a monaural signal so that both channels can be rendered. Use the Gain Line In knob to adjust the CD/Tape In input level.

7 EQ

Active 2-band tone controls. As expected, High boosts and cuts treble frequencies, Low boosts and cuts bass frequencies.

8 Limiter Status LEDs

These tricolor LEDs indicate the operating status of the MultiBand Limiter; there is one LED for the 1" driver and the 12" speaker. (green = signal, yellow = soft limit, red = full limit).

Caution! This LED is not a clipping indicator. If the LED flashes red every now and then, it's ok. This simply tells you that the limiter is operating at full capacity.

9 Ground

Ground lift switch for separating the signal and chassis ground when you encounter hum. The ground circuit is severed when you press the button.

Caution: Never tape over the AC plug's ground terminal – this endangers lives!

10 Fuse

Mains fuse. This fuse will blow in the event of a defect or malfunction, cutting D.A.R.T off from the mains power supply and protecting it from damage. Replace it with the same type of fuse only.

11 Mains Input

Use the factory-included power cord to connect this socket to a mains power supply.

Caution: Make sure the local mains voltage matches the voltage specified on the device. Connecting the system to the wrong mains voltage will likely destroy D.A.R.T's electronic components, and is not covered under warranty.

12 Power Switch

On/off switch for the D.A.R.T. The switch glows red to indicate that the unit is powered up.

2 Setting Up and Connecting D.A.R.T

Connect the cord that carries the signal from your mixing console (from its Monitor Out or Line Out, or a similar labeled output jack) to the balanced Line In. Use a cord equipped with standard XLR microphone connectors to do this. Make sure the XLR connectors have the following pin assignments:
pin 1 = ground, 2 = +, 3 = -.

Connect the cord carrying the signal from your CD player or tape deck (CD Out, Tape Out, or a similarly labeled output jack) to the CD/Tape In jack of the D.A.R.T. Use a cord equipped with RCA phono connectors to do this.

If you want to connect a microphone directly to D.A.R.T without plugging into a mixing console, simply plug an XLR microphone cord into the balanced Mic In. Make sure the XLR connectors have the following pin assignments:
pin 1 = ground, 2 = +, 3 = -.

3 Operating the System Safely

Make sure the Power On switch is set to the Off position.

Caution! Before you plug D.A.R.T into a wall outlet, ensure your local mains voltage matches the specification indicated on the device's rear panel. Connecting D.A.R.T to the wrong mains voltage can result in the destruction of its electronic components!

Turn the Gain knobs (Gain Line In and Gain Mic) all the way down (counterclockwise as far as the knobs will go).

Before powering up D.A.R.T, make sure all other connected components are turned on first. Everything connected to the mixing console that feeds a signal into it, such as keyboards, instrument amps, effects, and so forth, should be switched on first, then the mixing console, and finally D.A.R.T (and if D.A.R.T is serving as a monitor, then the main PA amplifier/s).

Only then should you begin to turn up the Gain from zero to whatever level you need. The preferred level when you connect a mixing console to D.A.R.T is to set the Gain Line In knobs to the center or 12 o'clock position (= 0 dBV). If you connect a CD player or a keyboard directly to the D.A.R.T – depending on input signal level – turn the GAIN knob clockwise all the way to the far right to achieve maximum volume.

When powering down your system, always turn the volume back down to zero and switch D.A.R.T off first, and then proceed to switch off all connected devices.

4 Settings

Gain Line In Knob

If the signal is distorted or saturated, first check the signal source and, if possible, reduce the output signal level there.

If the signal that you are routing to D.A.R.T cannot be adjusted at the source, adjust D.A.R.T's power amp by backing off the Gain Line In knob.

Gain Mic In Knob

Twist this knob to adjust the volume of the microphone.

Note: You can adjust the microphone and line inputs separately and mix them as desired. If the signal is distorted or saturated, turn down the Gain Mic In knob.

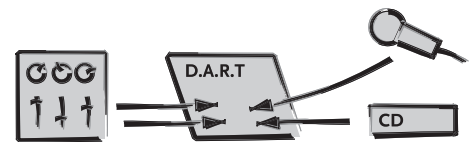
Ground Lift Switch

If you encounter low frequency hum, activate the Ground Lift switch. The ground circuit is severed when you press the button. If this doesn't work, check all cords connected to D.A.R.T and all signals routed to the mixing console until you pinpoint the problem.

Caution! Never tape over the AC plug's ground terminal – this endangers lives!

EQ

Adjust the sound as desired using the active two-band tone controls. High boosts and cuts treble frequencies, Low boosts and cuts bass frequencies.



possible connections



D.A.R.T on a speaker stand

5 Aligning D.A.R.T on Speaker Stands

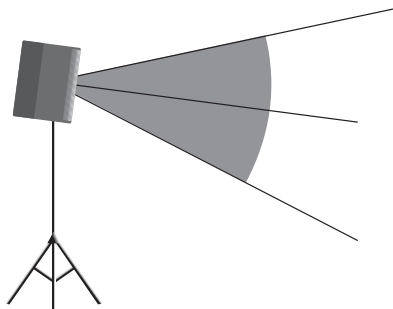
The HK AUDIO® DuoTilt™ lets you align D.A.R.T horizontally to prevent or reduce troublesome ceiling reflections.

The front opening of the HK AUDIO® DuoTilt™ gives you a 7.5° angle of tilt, and the rear opening gives you a 15° angle of tilt.

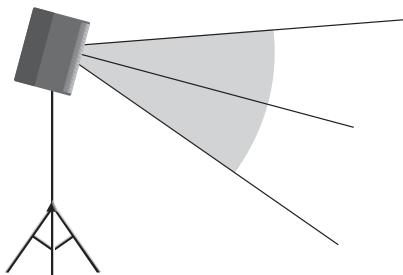
If you choose to set D.A.R.T on a fully extended cabinet tripod or mounting pole, insert the pole into the opening that provides an angle of 15°.

This alignment option is preferable when you want to address an audience where less listeners are standing directly in front of the speakers.

If you want to address an audience where more listeners are farther away from the loudspeakers, opt for the 7.5° angle.



7.5° angle of tilt



15° angle of tilt

6 Tips and Tricks

- 1 Do not expose electronic circuitry to moisture! When you set the system up outdoors, be sure to protect it against rain. Keep soft drinks, beer or any other liquids well away from the cabinets to protect their electronic components from short circuits, which could fry them.
- 2 D.A.R.T delivers optimum sound, so you should provide it with optimum input signals! Noise such as hum is generally caused by defective cables, the wrong type of cords, or unbalanced signals routed into the mixing console. Check all signal and mains cables.
- 3 Prevent distortion! Not only is it unpleasant to the ears of your audience, it can also endanger your equipment. Make sure that all components which are connected (both directly and indirectly) to D.A.R.T have sufficient power ratings, and that they don't distort because they're running within their respective limits. Provide an undistorted signal to the system that doesn't have to be cleaned up by backing off the GAIN knob.
- 4 Avoid ground loops! In spite of a balanced signal circuit, redundant ground circuits in a single audio system may generate undesirable humming. For example, you may encounter a ground loop when the mixer is grounded via a mains cord which isn't connected to the same mains circuit as D.A.R.T. To prevent this problem, always be sure to connect D.A.R.T and the mixing console to the same electrical circuit (same phase!). If your setup hums despite this precaution, the Ground Lift switch can be a great help.

Caution! Never tape over the AC plug's ground terminal – this endangers lives!

7 Troubleshooting

The Power switch does not light up red after you switch the system on.

- Check if the mains cord is plugged all the way into the Mains Input jack.
- Check if the mains power supply is actually providing current.

The Power switch lights up red, but no sound is coming from D.A.R.T.

- Check the cables that you connected to Line In and Mic In.
- Check if the signal sources (mixer, keyboard, CD player) are on.
- Are the Gain Line In or Mic In knobs turned up?

The signal coming from the speaker sounds distorted.

- Check the LED displays at your mixer. They should not be constantly in the red. If necessary, back off the volume at the mixer.
- If the LED displays on your mixer are in the green, turn down the Gain Line In knob on D.A.R.T.
- Observe the Limiter 1" and Limiter 12" LEDs on D.A.R.T.'s control panel. These should light up red for no more than a brief moment. Under no circumstances may the red LEDs illuminate continuously. If this is the case, turn down the corresponding GAIN knob.

Annoying hum

- Check the cables that you are using to connect the signal source to D.A.R.T. If any are damaged, replace them immediately.
- If you cannot pinpoint the cause of the hum, press the Ground Lift switch. This should in most cases fix the problem.

8 Technical Specifications

Frequency response +/- 3dB: 80 Hz – 19 kHz
Frequency response -10 dB: 60 Hz – 22 kHz

Axial sensitivity @1W/1m (half space): 105 dB
Maximum SPL @ 1m (half space, 10% THD): 123 dB

Loudspeakers:

Bass/mid woofer: 1x 12"
HF driver: 1" B&C
HF protection (passive): Dynamic protection circuit
Horn characteristics: 60° x 40° CD horn

Power amps:

1x 250 W Class D for bass/mid, 1x 60 W for HF
Active limiters: HK AUDIO® MultiBand Limiter,
Subsonic filter
Crossover frequency: 2 kHz, 24 dB/octave active crossover

Voicing section: 2-Band EQ

Connectors:

1 XLR Line In balanced
1 XLR Through balanced
1 XLR Mic In balanced
1 RCA phono stereo In

Speaker stand mounting collar: HK AUDIO® DuoTilt™

Weight: 21 kg/ 46.2 lbs.
Dimensions (WxHxD): 56 cm x 40.5 cm x 35.5 cm /
22" x 16" x 14"

This is to certify that

HK AUDIO® D.A.R.T

complies with the provisions of the Directive of the Council of the European Communities on the approximation of the laws of the Member States relating to electromagnetic compatibility (EMC Directive 89/336/EEC) and the low voltage Directive (73/23/EEC).

This declaration of conformity of the European Communities is the result of an examination carried out by the Quality Assurance Department of STAMER GmbH in accordance with European Standards EN 50081-1, EN 50082-1 and EN 60065 for low voltage, as laid down in Article 10 of the EMC Directive.

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* Stamer Musikanlagen manufactures exclusively for HK AUDIO®.

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