



UNIVOX®



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Your **Sound** Choice

Public Address System & PA Equipments



Young engineer Harjas founded Harman in 1958 at New Delhi, India.

The idea was to manufacture High Quality. High Quality rather than Quantity.

Harman led the PA Industry with new designs in Amplifiers, Speakers and Microphones.

All **HARMAN/UNIVOX** products use superior components to provide durability and high dependability.

The founders pursuit of Innovation and improvement continues today in effort to bring the user the very best and highly dependable Systems with Maximum features and High performance levels at reasonable prices. It is interesting that today after 60 years **HARMAN/UNIVOX** still bases its existence upon same ideas. Although the products are manufactured under modern Industrial Production method, they are like the products of craftsman, produced in a limited number, rather than unlimited like "truly mass produce objects", selected tropicalised and conservatively rated components are used. They give trouble free service in extreme climatic conditions and are designed to withstand any amount of jolting and vibration in transit. This enables us to create technically advance products which, inspite of their technicalities have a personality.

A meaning both for their producers and their users.

HARMAN/UNIVOX Products are distributed through out the country and exported abroad following the same standards that were set forth six decades ago - Quality, Convenience, Design and Value.

Congratulations! You have made a wise choice by investing in **HARMAN/UNIVOX** products.



Centralised Sound System

Harman Centralised Sound System are to cater to complex audio needs. These systems can handle watt ranging from 1000 Watts RMS to 10,000 Watts RMS. These are ideals for Hotels, Cinemas, Religious Institutions, Stadiums and places which need very High Power of sound output at various locations over wide areas.

Conference System



BCU-201
24 V DC Chairman Unit

S/N Ratio	: Better than 50 dB
(With mic input terminated)	
Mic sensitivity at 1 KHz	: -65dB
Freq. Response	: 100 Hz - 12.5 kHz
Rated Power Output	: 500 mW
at 1 KHz	
THD at rated output	: < 1%
at 1 KHz	
Current Consumption	: (Quiscent) <35mA Mic ON <60mA
Dimension (mm) / Wt.	: 110(W)X170(D)X60(H) 750gms.



BDU-202
24 V DC Delegate Unit

S/N Ratio	: Better than 50 dB
(With mic input terminated)	
Mic sensitivity at 1 kHz	: -65dB
Freq. Response	: 100 Hz - 12.5 kHz
Rated Power Output	: 500 mW
at 1 kHz	
THD at rated output	: < 1%
at 1 kHz	
Current Consumption	: (Quiscent) <35mA Mic ON <60mA
Dimension (mm) / Wt.	: 110(W)X170(D)X60(H) 750gms.



BSU-203
24 V DC Secretary Unit

S/N Ratio	: Better than 50 dB
(With mic input terminated)	
Rated Power Output	: 500 mW
at 1 kHz	
THD at rated output	: < 1%
at 1 kHz	
Current Consumption	: (Vol. Max.) ,<80mA
Dimension (mm) / Wt.	: 110(W)X170(D)X60(H) 600gms.

Conference System



HPS-2004 Power Supply
AC, 240V / 24V DC Operation

Power Output	: 300mW Max
Dimensions (mm)	: 375(W) X 245(D) X 89(H)



HAS-3004 Conference Controller cum Amplifier

Power Output	: 50W (RMS) <10% THD
Output for speakers	: 4Ω, 8Ω, 16Ω 100 V (70V Tap Inside)
Input	: 3 Inputs 0.5mV/4.7kΩ
Aux	: 70 mV/150kΩ
S/N ratio	: <60 dB (all level controls at min.)
Freq. Response	: 60 Hz - 12.5 kHz
Over Current & Protection	: By fuses 2 AAC, 4 A DC, 8 A DC
Pre amp. Output	: 200 mV to 600 mV
Power Supply Mains	: 220/240 V AC, 50-60 Hz
External Battery DC	: 12 V DC Nominal, 14.2 V Max.
Construction	: free standing and/or rack mounting
Dimession (mm)	: 435(W) X 275(D) X 125(H) excluding projections.
Weight	: 6kg. (approx.)



Amplifiers



HA-25B
AC, 12V DC Operation

Power Output : 25W RMS at 10% THD/32W RMS Max
Input Channels : Mic : 2x Mic.
AUX : 1xAUX
Frequency Response : 100-12000Hz±3dB
Tone Controls : Treble cut type
Speaker Output : 4Ω, 8Ω, 16Ω
Dimensions / Wt : 180x220x9mm / 2kgs.



HA-30AB
AC, 12V DC Operation

Power Output : 30W RMS at 10% THD/40W RMS Max
Input Channels : Mic : 2x Mic. 1.0mV/4.7kΩ
AUX : 1xAUX 100mV/470kΩ
Frequency Response : 150-10000Hz±3dB
Tone Controls : -10dB at 10kHz
Speaker Output : 4Ω, 8Ω, 16Ω
Dimensions / Wt : 260x180x85mm / 4 kgs.



HA-40ABC
AC, 12V DC & Dry Cells Operation

Power Output : 40W RMS at 10% THD/50W RMS Max
Input Channels : Mic : 3x Mic.
AUX : 1xAUX
Frequency Response : 100-15000Hz±3dB
Tone Controls : Treble cut type
Speaker Output : 4Ω, 8Ω, 16Ω
Dimensions / Wt : 255x230x110mm / 5kgs.



HA-45M
AC, 12V DC Operation

Power Output : 45W RMS at 10% THD/65W RMS Max
Input Channels : Mic : 3x Mic. 0.65mV/4.7kΩ
AUX : 1xAux 100mV/470kΩ
Frequency Response : 100-15000Hz±3dB
Tone Controls : Bass : 10dB at 100Hz
Treble : 10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω & 100V
Dimensions / Wt : 280x270x120mm / 4.8kgs.



Amplifiers



DPA-550
AC, 12V DC Operation 50 Watts/75Watts Max

Power Output : 50W RMS at 10% THD/75W RMS Max
Input Channels : Mic : 3xMic 0.6mV/4.7kΩ
Aux : 1xAux 100mV/470kΩ
Digital Player : MP3 Player with USB, SD Card &
MMC Card reader Remote Control
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10kHz
Speaker Output : 4Ω, 8Ω, 16Ω & 100V



DPA-555
AC, 12V DC Operation 50 Watts/75Watts Max

Power Output : 55W RMS at 10% THD/70W RMS Max
Input Channels : Mic : 3xMic 0.6mV/4.7kΩ
Aux : 1xAux 100mV/330kΩ
CD : 1xCD 100mV/330kΩ
Digital Player : MP3 Player with USB, SD Card &
MMC Card reader Remote Control
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10kHz
Speaker Output : 4Ω, 8Ω, 16Ω & 100V



HP-40DP
AC, 12V DC Operation 40 Watts/55Watts Max

Power Output : 40W RMS at 10% THD/55W RMS Max
Input Channels : Mic : 2xMic 0.6mV/4.7kΩ
Aux : 1xAux 100mV/330kΩ
Digital Player : MP3 Player with USB, SD Card &
MMC Card reader Remote Control
Frequency Response : 150-10000Hz ± 3dB
Tone Controls : -10dB at 10Hz
Speaker Output : 4Ω, 8Ω, 16Ω, 100V
Dimensions / Wt : 270x220x90mm / 4.6 kgs.



DPA-1200
AC, 12V DC Operation 120 Watts/60Watts Max

Power Output : 120W RMS at 10% THD/160W RMS Max
Input Channels : Mic : 5xMic 0.65mV/4.7kΩ
Aux : 2xAux 100mV/470kΩ
Digital Player : MP3 Player with USB, SD Card &
MMC Card reader Remote Control
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : -10dB at 100Hz
Treble : -10dB at 10kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70V
Dimensions / Wt : 415x305x140mm / 11 kgs.



Amplifiers



HA-55M
AC, 12V DC Operation

Power Output : 50W RMS at 10% THD/70W RMS Max
Input Channels : Mic : 3x Mic. (Hi-z)
Aux : 1xAux
Frequency Response : 65-15000Hz
Tone Controls : Bass : Cut & Boost Type
Treble : Cut & Boost Type
Speaker Output : 4Ω, 8Ω, 16Ω & 100V
Output Level Indicator : 5 Led Array
Dimensions / Wt : 332x290x105mm / 5.5kgs.



HA-60M
AC, 12V DC Operation

Power Output : 65W RMS at 10% THD/95W RMS Max
Input Channels : Mic : 4x Mic. 0.65mV/4.7kΩ
Aux : 1xAux 100mV/470kΩ
Frequency Response : 50-15000Hz ±3dB
Tone Controls : Bass : 10dB at 100Hz
Treble : 10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω & 100V
Dimensions / Wt : 355x275x130mm / 7kgs.



HA-75AB
AC, 12V DC Operation

Power Output : 75W RMS at 10% THD/100W RMS Max
Input Channels : Mic : 4x Mic. (Hi-z)
Aux : 1xAux
Frequency Response : 50-15000Hz ±3dB
Tone Controls : Bass : Cut & Boost type
Treble : Cut & Boost type
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 LED Array
Dimensions / Wt : 420x315x145mm / 9kgs.



HA-80MX
AC, 12V DC Operation

Power Output : 80W RMS at 10% THD/110W RMS Max
Input Channels : Mic : 5x Mic. 0.65mV/4.7 kΩ
Aux : 2xAux 100mV/470kΩ
Frequency Response : 65-15000Hz ±3dB
Tone Controls : Bass : 10dB at 100Hz
Treble : 10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Dimensions / Wt : 355x285x130mm / 9kgs.



Amplifiers



HA-100AB
AC, 12V DC Operation

Power Output : 100W RMS at 10% THD/150W RMS Max
Input Channels : Mic : 5x Mic. (Hi-z)
Aux : 2xAux
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : Cut & Boost type
Treble : Cut & Boost type
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 Led Array
Dimensions / Wt : 420x315x145mm / 12kgs.



HA-125T
AC, 12V DC Operation

Power Output : 125W RMS at 10% THD/165W RMS Max
Input Channels : Mic : 5x Mic. 0.65mV/4.7 kΩ
Aux : 2xAux 100mV/470 kΩ
Frequency Response : 50-15000Hz ±3dB
Tone Controls : Bass : 10dB at 100Hz
Treble : 10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 Led Array
Dimensions / Wt : 420x295x135mm / 11.3kgs.



HPA-160M
AC, 24V DC Operation

Power Output : 165W RMS at 10% THD/225W RMS Max
Input Channels : Mic : 5x Mic. 0.65mV/4.7 kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Frequency Response : 50-15000Hz ±3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 70-100V line
Output Level Indicator : 5 LED Array
Dimensions / Wt : 410x320x150mm / 13.7kgs.



HPA-200M
AC, 24V DC Operation

Power Output : 200W RMS at 10% THD/250W RMS Max
Input Channels : Mic : 6x Mic. 0.65mV/4.7 kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Frequency Response : 50-15000Hz
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 LED Array
Dimensions / Wt : 450x340x160mm

Amplifiers



HPA-250MX
AC, 24V DC Operation

Power Output : 250W RMS at 10% THD/340W RMS Max
Input Channels : Mic : 6x Mic. 0.65mV/4.7kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 Led Array
Dimensions / Wt : 450x340x160mm / 17kgs.



HB-250M
AC, 24V DC Operation

Power Output : 260W RMS at 10% THD/340W RMS Max
Input Channels : 1xLine. 200mV/100kΩ
1xLine 1V/50kΩ
Frequency Response : 50-15000Hz ±3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 Led Array
Dimensions / Wt : 450x340x160mm / 16kgs.



HPA-300 DP
AC, 24V DC Operation

Power Output : 250W RMS at 10% THD/340W RMS Max
Input Channels : Mic : 6x Mic. 0.65mV/4.7kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Frequency Response : 50-15000Hz ± 3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 16Ω, 70-100V line
Output Level Indicator : 5 Led Array
Digital Player : MP3 Player with USB SD & MMC card
reader and Remote Control
Dimensions / Wt : 450x340x160mm / 17kgs.



TCA-1600
AC, 12V DC Operation

Power Output : 80W RMS at 10% THD/110W RMS Max
For each channel
Input Channels : Mic : 6x Mic. 0.6mV/4.7 kΩ
Aux : 2xAux 100mV/470kΩ
Frequency Response : 60-15000Hz ±3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 70-100V line
Dimensions / Wt : 450x320x145mm / 14.5 kgs.



Amplifiers



TCA-5000
AC, 24V DC Operation

Power Output : 250W RMS at 10% THD/340W RMS Max for each Channel
Input Channels : Mic : 6x Mic. 0.6mV/4.7kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Stereo Input : 200mV/100kΩ
Frequency Response : 45-15000kHz ± 3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 70-100V line for each Channel
Output Level Indicator : 5 Led Array for each Channel
Dimensions / Wt : 530x403x172mm / 25.3kgs.



HPS-5000M
AC, 360V DC Operation

Power Output : 500W RMS at 10% THD/750W RMS Max
Input Channels : Mic : 7x Mic. 0.8mV/4.7 kΩ
Aux : 2xAux 100mV/470kΩ
Line : 1xLine 1V/50kΩ
Frequency Response : 45-16000Hz ±3dB
Tone Controls : Bass : ±10dB at 100Hz
Treble : ±10dB at 10 kHz
Speaker Output : 4Ω, 8Ω, 70-100V line
Output Level Indicator : 5 LED Array
Dimensions / Wt : 510x385x172mm / 27kgs.



UB-7000
AC, 36V DC Operation

Power Output : 600W RMS at 10% THD/750W RMS Max
Input Channels : 1xLine 200mV/100kΩ
1xLine 1V/50kΩ
Frequency Response : 45-15000kHz ± 3dB
Tone Controls : Bass : ±8dB at 100Hz
Mid : ±8dB at 1kHz
Treble : ±8dB at 10kHz
Speaker Output : 2Ω, 4Ω, 70-100V line
Output Level Indicator : 10 Led Array
Dimensions / Wt : 560x370x165mm / 20kgs.



UB-9000
AC Operation

Power Output : 750W RMS at 10% THD/900W RMS Max
Input Channels : 1xLine 200mV/100kΩ
1xLine 1V/50kΩ
Frequency Response : 40-18000kHz ± 3dB
Tone Controls : Bass : ±8dB at 100Hz
Mid : ±8dB at 1kHz
Treble : ±8dB at 1kHz
Speaker Output : 2Ω, 4Ω, 70-100V line
Output Level Indicator : 10 Led Array
Dimensions / Wt : 505x410x160mm / 21.4 kgs.





HM-133

is a compact Hi-power stereo amplifier with MP3/USB/MMC and Mike input. Any other external CD/VCD/DVD/Cassette Deck etc. can also be connected to HM-133 for Hi-Power audio output.



PA-500SM 12V DC Operation

Power Output : 45W RMS at 10% THD/55W RMS Max
Input Channels : Mic. 2xMic 1mV/4.7kΩ
Aux. 1xAux 100mV/330kΩ
Frequency Response : 100-10000kHz ± 3dB
Speaker Output : 4Ω, 100V line inside
Dimensions / Wt : 180x240x80mm / 2.2kg.



DP-100 (USB, MP3, MMC, FM Digital Player)

has been designed to replace analogue cassette players. It has been specially designed for use with quality P.A. amplifier of any power.



HE-2000

2 Channel Mixer Preamplifier with ECHO, REVERB, CHORUS, Effect
AC, 12V DC Operation
Digital signal processing
Echo facility on all inputs through Echo Volume, Repeat & Delay & controls.
Peak LED for setting optimum distortion free input levels



Echo Chamber HE-4000

4 Microphone input with Independence volume control.
Echo & Chorus Switch
Delay Output
12v Battery Input
5 LED monitor Display



HE-8000 PRO (8 Channel) AC & 12V DC Operation

Mic. Input : 2k Ohms/62dB
Line Input : 20k Ohms Balanced/42dB
10k Ohms Unbalanced/42dB
Tone Control : Bass +/- 12dB at 100Hz
Treble +/- 12dB at 10kHz
Freq. Resp. : 30Hz-20kHz (+0, -1dB)
Line Output : 0dBm/+17dBm (775mV/5.5V)
Echo/Reverb Sys. : Digital signal processing
Distortion : < 0.08%



PMX Series Audio Mixer

6,8,12,16,24 channels monop input
Three Bands equalizer
Aux output, which can be connected with a outer Effect Device
Built-in digital display Effect Device
7 Bands master controlling equalizer
T.H.D. : 0.1% Below (1kHz Full Power)
Power Requirements : AC 220V/50Hz or 120V/60Hz
Power Consumption : 30W



Microphones



HM-DRAMA
Hanging mike suitable for drama, stage programmes etc.

Freq. Response : 100-7,000Hz.
Sensitivity : 30K Ohms



HM-DRAMA (Small)
Hanging mike suitable for drama, small stage programmes etc.

Freq. Response : 100-7,000Hz.
Sensitivity : 30K Ohms



HM-606M
For Mobile applications with flexible coiled cord. Close to lip speaking to avoid background noise.

Freq. Response : 200-6,000Hz.
Sensitivity : 2.3mV/Pa
Impedance : 500 Ohms



HM-1S XLR
For Singing & all type of PA applications.

Freq. Response : 100-10000Hz.
Sensitivity : 2mV/Pa
Impedance : 600 Ohms

Microphones



HM-580 XLR
For Singing & Vocal

Freq. Response : 50-16000Hz.
Sensitivity : 2mV/Pa
Impedance : 300 Ohms



HM-711 XLR
For speech, Singing, Orchestra etc.

Freq. Response : 50-16000Hz.
Sensitivity : 2mV/Pa
Impedance : 600 Ohms



HM-1000 XLR
Very sensitive microphone, Excellent for Dramas, Speech, Group performances, Religious places etc.

Freq. Response : 50-16000Hz.
Sensitivity : 1.6mV/Pa
Impedance : 250 Ohms



HM-2000 XLR
Professional microphone singing, instruments, broadcasting etc.

Freq. Response : 50-18,000Hz.
Sensitivity : 2.5mV/Pa
Impedance : 300 Ohms

Microphones



TIE PIN LAVALIER
For Lectures, Interviews, Religious places etc.

Freq. Response : 100-15,000Hz.
Sensitivity : 5mV/Pa
Impedance : 1000 Ohms



HM-CONFERENCE
Flexible all side adjustable rod.

Freq. Response : 100-11000Hz.
Sensitivity : 5mV/Pa
Impedance : 500 Ohms



HM-C480
Flexible & Sleek, XLR connector

Freq. Response : 50-10,000Hz.
Sensitivity : 2mV/Pa
Impedance : 600 Ohms



HM-C500
Flexible all side adjustable rod. XLR connector

Freq. Response : 50-15000Hz.
Sensitivity : 2.2mV/Pa
Impedance : 500 Ohms

Microphones



HM-101
For Speech

For Speech :
Freq. Response : 50-16000Hz.
Sensitivity : 1.6mV/Pa
Impedance : 300 Ohms (Lo-z)
(Hi-z)



HM-111
For speech etc.

Freq. Response : 100-10000Hz.
Sensitivity : 2mV/Pa
Impedance : 600 Ohms (Hi-z)



HM-550
For Speech, Singing, Karaoke etc.

Freq. Response : 150-10,000Hz.
Sensitivity : 2mV/Pa
Impedance : 600 Ohms



HM-611
For Speech Stage & Broadcast etc.

Freq. Response : 100-10000Hz.
Sensitivity : 2.2mV/Pa
Impedance : 500 Ohms



HGM-999
For Stage, Dramas, Interviews, Studio/Video recording etc.

Freq. Response : 20-18,000Hz.
Sensitivity : 2.2mV/Pa, 4.5mV/Pa (switchable)
Impedance : 1000 Ohms

Driver Units



HFU-40

Continuous Power : 40 Watts
Music Power : 60 Watts
Impedance : 16 Ohms
Freq. Response : 155-7000 Hz



HFU-40T

Same as HFU-40 but with built in Line Matching Transformer with wattage taps
10W / 20W / 30W / 40W



HFU-50

Continuous Power : 50 Watts
Music Power : 75 Watts
Impedance : 16 Ohms
Freq. Response : 155-7000 Hz



HFU-60

Continuous Power : 60 Watts
Music Power : 100 Watts
Impedance : 16 Ohms
Freq. Response : 155-7000 Hz



HFU-80

Continuous Power : 80 Watts
Music Power : 140 Watts
Impedance : 16 Ohms
Freq. Response : 155-7500 Hz

Horns



HC-500 Horn Speaker

Power Input : 50W RMS
Components : 1X15cms woofer,
1X2.5cms Dome Tweeter
Power Taps : 50/25/15/10W on 100V
Freq. Resp. : 90-20,000Hz
SPL at 1KHz : 99dB/1W/1m
Material : ABS (UV Protected)



HC-25

Power Input : 25W RMS - 45W Max.
Impedance : 8 Ohms
Freq. Resp. : 240-10000Hz
SPL at 1KHz : 108dB/W/1m
Material : ABS



HC-20

Power Input : 20W RMS - 30W Max.
Impedance : 8 Ohms
Freq. Resp. : 250-10000Hz
SPL at 1KHz : 106dB/W/1m
Material : ABS



HC-20T

Power Input : 20W RMS - 30W Max.
Impedance/
Power Taps : 5/10/15/20/25W
Freq. Resp. : 250-10000Hz
SPL at 1KHz : 106dB/W/1m
Material : ABS

Horns



HC-15	
Power Input	: 15W RMS - 25W Max.
Impedance/	: 8 Ohms
Freq. Resp.	: 275-7000Hz
SPL at 1KHz	: 106dB
Material	: ABS



HC-10	
Power Input	: 10W RMS - 20W Max.
Impedance	: 8 Ohms
Freq. Resp.	: 275-7000Hz
SPL at 1KHz	: 106dB/W/1m
Material	: Aluminium / ABS



HC-520T Garden Speaker	
Power Input	: 50W RMS
Power Taps	:
Freq. Resp.	: 80-15kHz
SPL at 1KHz	: 95dB
Dimension	: 215x245mm
Material	: ABS

Speakers



WR-300 M	
Power Rating	: 60-120W RMS
Nominal Diameter	: 305mm (12")
Nominal Impedance	: 8/16 Ohms
Sensitivity (1W/1m)	: 97dB
Resonant Freq. (Fs.)	: 50Hz
Voice Coil	: (1¼") 31.7mm



WR-300	
Power Rating	: 60-120W RMS
Nominal Diameter	: 305mm (12")
Nominal Impedance	: 8/16 Ohms
Sensitivity (1W/1m)	: 98dB
Resonant Freq. (Fs.)	: 45Hz
Voice Coil	: (1¼") 31.7mm



WR-300S	
Power Rating	: 80-160W RMS
Nominal Diameter	: 305mm (12")
Nominal Impedance	: 8/16 Ohms
Sensitivity (1W/1m)	: 97dB
Resonant Freq. (Fs.)	: 50Hz
Voice Coil	: (2") 50.8mm



WR-300 CS	
Power Rating	: 80-160W
Nominal Diameter	: 305mm (12")
Nominal Impedance	: 8/16 Ohms
Sensitivity (1W/1m)	: 97dB
Resonant Freq. (Fs.)	: 50Hz
Voice Coil	: (1¼") 31.7mm



Speakers



WR-300HM

Power Rating : 100-200W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 98dB
Resonant Freq. (Fs.) : 50Hz
Voice Coil : (1½") 38.1mm



WR-300M HM

Power Rating : 100-200W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 98dB
Resonant Freq. (Fs.) : 50Hz
Voice Coil : (1½") 38.1mm



WR-300 HM CS

Power Rating : 150-250W
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 97dB
Resonant Freq. (Fs.) : 50Hz
Voice Coil : (1½") 38.1mm



WR-300HM DC

Power Rating : 100-200W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 97dB
Resonant Freq. (Fs.) : 50Hz
Voice Coil : (1½") 38.1mm



Speakers



WR-300HM SPL

Power Rating : 150-250W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 98dB
Resonant Freq. (Fs.) : 45Hz
Voice Coil : (2") 50.8 mm



WR-300M EHM

Power Rating : 200-300W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 97dB
Resonant Freq. (Fs.) : 45Hz
Voice Coil : (2") 50.8mm



WR-300EHM

Power Rating : 200-300W RMS
Nominal Diameter : 305mm (12")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 97dB
Resonant Freq. (Fs.) : 45Hz
Voice Coil : (2") 50.8mm



WR-380

Power Rating : 200-300W RMS
Nominal Diameter : 380mm (15")
Nominal Impedance : 8/16 Ohms
Sensitivity (1W/1m) : 98dB
Resonant Freq. (Fs.) : 65Hz
Voice Coil : (2") 50.8mm



Speakers



WR-380HM	
Power Rating	: 300-400W RMS
Nominal Diameter	: 380mm (15")
Nominal Impedance	: 8/16 Ohms
Sensitivity (1W/1m)	: 98dB
Resonant Freq. (Fs.)	: 55Hz
Voice Coil	: (3") 76.2mm



WR-380 HMM	
Input Power	: 300W RMS
Music Power	: 300W Max.
Impedance	: 8 Ohms
Freq. Response	: 45-20,000Hz
SPL (1W/1m)	: 98dB



WR-450HM	
Power Rating	: 600-800W
Nominal Diameter	: 457mm (18")
Nominal Impedance	: 8 Ohms
Sensitivity (1W/1m)	: 98dB
Resonant Freq. (Fs.)	: 40Hz
Voice Coil	: (4") 101.6mm



10cm
(4")



15cm
(6")



20cm
(8")



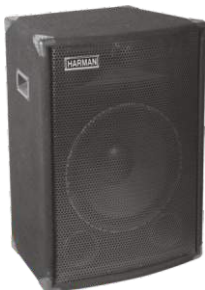
25cm
(10")

Various models ranging from 2¼" to 21" available in full range, midrange, woofers etc. Please ask for literature.

Speaker Systems



HRX-120	
Input Power	: 120W RMS
Music Power	: 250W Max.
Impedance	: 8/16 Ohms
Freq. Response	: 50-20,000Hz
SPL (1W/1m)	: 97dB



HAX-150	
Input Power	: 150W RMS
Music Power	: 300W Max.
Impedance	: 8/16 Ohms
Freq. Response	: 45-20,000Hz
SPL (1W/1m)	: 97dB



HRX-250	
Input Power	: 200W RMS
Music Power	: 400W Max.
Impedance	: 8 Ohms
Freq. Response	: 45-20,000Hz
SPL (1W/1m)	: 100dB

HRX-400	
Input Power	: 300W RMS
Music Power	: 500W Max.
Impedance	: 8 Ohms
Freq. Response	: 40-20,000Hz
SPL (1W/1m)	: 100dB



Speaker Systems & Stands



PA Speaker Stands

	STA-100	STA-150
Height Adjustment	1½' - 3½'	3½' - 6½'
Load Capacity	25 Kgs.	40 Kgs.
Weight	3 Kg.	4.7 Kg.

PA Microphone Stands

Specifications	ATS-5	DGT	DGN	BOOM
Type	Desk Stand	Table Stand	Floor Stand	Boom Stand
Height	130mm	350-530mm	920-1500mm	1000-1700mm



Wall Speaker

Input Power	: 10W RMS (20W Max.)
Power Taps	: 3W/6W/10W on 100V
Freq. Resp.	: 60-15,000 Hz
Spl (1W/1M)	: 92dB

Speaker Systems



WS-401T

Power Input	: 20W RMS - 40W Max.
Power Taps	: 2.5/5/10/20W on 100V
Impedance	: 8 Ohms
Freq. Resp.	: 80-20kHz
SPL at 1KHz	: 99dB at 100V
Dimension	: 215x170x150mm
Material	: HIPS



WS-605T

Power Input	: 60W RMS - 85W Max.
Power Taps	: 10/20/40/60W on 100V
Impedance	: 8 Ohms
Freq. Resp.	: 50-20kHz
SPL	: 101dB at 100V
Dimension	: 284x215x190mm
Material	: HIPS



WS-905T

Power Input	: 95W RMS - 125W Max.
Power Taps	: 15/30/60/95W on 100V
Impedance	: 8 Ohms
Freq. Resp.	: 40-20kHz
Dimension	: 418x275x255mm
Material	: HIPS



HMC-20 / HMC-20T

Speakers	: 2x6" x 4"
Power Input	: 15W RMS - 25W Max.
Power Taps	: 5/10/20W on 100V
Impedance	: 8 Ohms
Freq. Resp.	: 15-10000Hz
SPL	: 103dB
Dimension	: 455x165x150mm
Material	: Sheet Metal Cabinet & Covers



Speaker Systems



HMC-40 / HMC-40T

Speakers	: 4x6" x 4"
Power Input	: 30W RMS - 50W Max.
Power Taps	: 10/20/40W on 100V
Impedance	: 16 Ohms
Freq. Resp.	: 150-10000Hz
SPL	: 110dB
Dimension	: 885x165x150mm
Material	: Sheet Metal Cabinet & Covers



HSC-311T

Speakers	: 2x5" x 3"
Power Input	: 10W RMS - 20W Max.
Power Taps	: 5/10/20W on 100V
Impedance	: 100V
Freq. Resp.	: 150-15000Hz
SPL	: 91dB
Dimension	: 389x115x89mm
Material	: Sheet Metal Cabinet & Covers



HRX-3800

Input Power	: 400W RMS
Music Power	: 800 W Max.
Impedance	: 8 Ohms
Freq. Response	: 40-20,000Hz
SPL. (1W/1m)	: 102dB

HRX-3800 PRO

Input Power	: 800W RMS
Music Power	: 1400 W Max.
Impedance	: 4 Ohms
Freq. Response	: 40-20,000Hz
SPL. (1W/1m)	: 103dB



Speakers



CS-6M

Speaker size	: 15cm (6")
Input Power	: 20W RMS / 28W Max
Power Taps	: 5/10/20 W on 100V
Frequency Resp.	: 55-15,000 Hz
Spl. (1W/1m)	: 92dB



CS-6P

Speaker size	: 15cm (6")
Input Power	: 20W RMS / 28W Max
Power Taps	: 5/10/20 W on 100V
Frequency Resp.	: 60-15,000 Hz
Spl. (1W/1m)	: 92dB



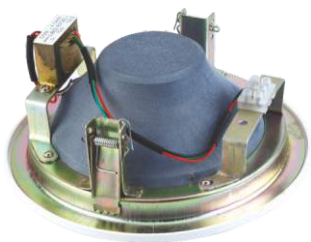
CS-6BC

Speaker size	: 15cm (6")
Input Power	: 20W RMS / 30W Max
Power Taps	: 5/10/20 W on 100V
Frequency Resp.	: 60-15,000 Hz
Spl. (1W/1m)	: 92dB



CS-6CF (2 Way)

Speaker size	: 15cm (6")
Tweeter size	: 2.5cm (1")
Input Power	: 30W RMS / 50W Max
Power Taps	: 10/20/30 W on 100V
Frequency Resp.	: 90-18,000 Hz
Spl. (1W/1m)	: 98dB

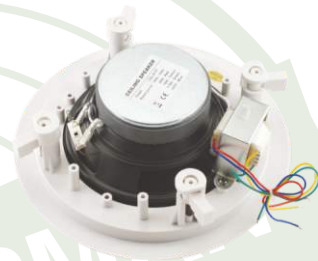


Speakers



CS-6902T (2WAY)

Power Input	: 30W RMS - 50W Max.
Power Taps	: 7.5/15/30W on 100V
Impedance	: 8 Ohms
Freq. Resp.	: 90-20000Hz
SPL	: 102dB
Dimension	: 230x90mm
Material	: ABS



CS-3M

Speaker size	: 7.6cm (3")
Input Power	: 6W RMS/ 10W Max
Power Taps	: 1.5/3/6 W on 100V
Frequency Resp.	: 75-15,000 Hz
Spl. (1W/1m)	: 85dB



CS-4M

Speaker size	: 10cm (4")
Input Power	: 10W RMS/ 15W Max
Power Taps	: 3/5/10 W on 100V
Frequency Resp.	: 75-15,000 Hz
Spl. (1W/1m)	: 92dB



CS-5M

Speaker size	: 13cm (5")
Input Power	: 15W RMS/ 20W Max
Power Taps	: 5/10/20 W on 100V
Frequency Resp.	: 70-15,000 Hz
Spl. (1W/1m)	: 92dB



Car Speaker

Power Input	: 35W RMS - 50W Max.
Impedance	: 4 Ohms
Freq. Resp.	: 55-18000Hz
SPL	: 97dB



Diaphragms

Horns



Harman Diaphragms

Are perfect replacement parts for any good quality driver unit. They are made to stringent quality standards set by our technical engineers to give you highest quality in sound reproduction.

Horn A Type

Horn B Type



Reflex Horns are acoustically well designed and perfectly matched with **HARMAN / UNIVOX** driver units for powerful, crisp, clean and clear sound.

Horn A-Type

Horn B-Type

Bell Dia	: 53.34cms (21")
Cut-Off Freq.	: 160 Hz

Bell Dia	: 45.72cms (18")
Cut-Off Freq.	: 190 Hz

Tape Decks



HTA-460
AC, 12V DC Operation

Power Output : 40W RMS at 10% THD/50W RMS Max
Input Channels : Mic : 2x Mic. 0.5mV/2.5k Ω
Aux : 1xAux 50mV/250k Ω
Frequency Response : 80-13000Hz $\pm$ 3dB
Tone Controls : Bass : -6dB at 100Hz
Treble : -10dB at 10 kHz
Speaker Output : 4 Ω , 8 Ω , 16 Ω , 100V line (inside)
Dimensions / Wt : 280x295x160mm / 5.1kgs.



HTA-560
AC, 12V DC Operation

Power Output : 50W RMS at 10% THD/60W RMS Max
Input Channels : Mic : 3x Mic.
Aux : 1xAux
Frequency Response : 100-15000Hz $\pm$ 3dB
Tone Controls : Bass : $\pm$ 10dB at 100Hz
Treble : $\pm$ 10dB at 10 kHz
Speaker Output : 4 Ω , 8 Ω , 16 Ω , 100V line
Dimensions / Wt : 360x260x110mm / 5.1kgs.



HTA-600
AC, 12V DC Operation

Power Output : 50W RMS at 10% THD/65W RMS Max
Input Channels : Mic : 3x Mic.
Aux : 1xAux & Front loading tape player
Frequency Response : 80-15000kHz $\pm$ 3dB
Tone Controls : Bass : $\pm$ 10dB at 100Hz
Treble : $\pm$ 8dB at 10kHz
Speaker Output : 4 Ω , 8 Ω , 16 Ω , 100V line
Dimensions / Wt : 370x280x135mm / 6.4 kgs.



HTA-650
AC, 12V DC Operation

Power Output : 65W RMS at 10% THD/80W RMS Max
Input Channels : Mic : 3x Mic.
Aux : 1xAux
Frequency Response : 60-15000KHz $\pm$ 3dB
Tone Controls : Bass : $\pm$ 10dB at 100Hz
Treble : $\pm$ 10dB at 10kHz
Speaker Output : 4 Ω , 8 Ω , 16 Ω , 100V line
Output Level Indicator : 5 Led Array
Dimensions / Wt : 340x270x145mm / 6.7kg.



Tape Decks



HR-100
AC, 12V DC Operation

PA Cassette recorder pre-amplifier has been specially designed for use with quality P.A. amplifier of any wattage.
Recording input level control for setting devised recording level with LED monitor display.
Built-in 10cm (4 inch) monitor speaker with volume control.
Reliable & Sturdy front loading TDM.



UPA-550/USB
AC, 12V DC Operation

Power Output : 50W RMS at 10% THD/75W RMS Max
Input Channels : Mic : 3x Mic. 0.6mV/4.7k Ω
Aux : 1xAux 100mV/470k Ω
Frequency Response : 50-15000Hz $\pm$ 3dB
Tone Controls : Bass : $\pm$ 10dB at 100Hz
Treble : $\pm$ 10dB at 10 kHz
Speaker Output : 4 Ω , 8 Ω , 70-100V line
Dimensions / Wt : 340x270x145mm / 7.5kgs.



Vijeta 555
AC, 12V DC Operation

Power Output : 45W RMS at 10% THD/55W RMS Max
Input Channels : Mic : 3xMic
Aux : 1xAux
Frequency Response : 100-13000Hz $\pm$ 3dB
Tone Controls : Bass : $\pm$ 10dB at 100Hz
Treble : $\pm$ 10dB at 10 kHz
Speaker Output : 4 Ω , 8 Ω , 16 Ω
Dimensions / Wt : 360x260x110mm / 5.4 kgs.



AVR-6000 ACD/VCD/DVD/MP3/USB with REC./ECHO

Power Input : 55W RMS at 10% THD / 70W Max.
Input Channels : Mic : 3x Mic. (Mic 3 with ECHO)
Aux : 1x Aux
Freq. Resp. : 50-15000Hz $\pm$ 3dB
Tone Controls : Independent Bass & Treble
Speaker Output : 4-8-16 Ohms, 100V Line
Digital Video Player : MP3 player with USB & remote Control
Dimension : 385x290x105mm
Weight : 5.2 kgs.



Tape Decks



ATR-125
AC, 12V DC Operation

Power Input	: 100W RMS at 10% THD / 125W Max.
Input Channels	: Mic. : 5x Mic. Aux : 1x Aux & Top loading tape recorder
Freq. Resp.	: 100-15000Hz $\pm$ 3dB
Tone Controls	: Independent Bass & Treble
Speaker Output	: 4-8-16 Ohms, 100V Line
Output Level Indicator	: 5 LED Array
Dimension	: 470x345x132mm
Weight	: 11 Kg.



HTA-600E
AC, 12V DC Operation

Power Output	: 48W RMS (60W RMS max)
Input Channels	: Mic : 3x Mic. Aux : 1xAux
Frequency Response	: 100-13000Hz $\pm$ 3dB
Tone Controls	: Independent Bass & Treble
Speaker Output	: 4 Ω , 8 Ω , 16 Ω
Dimensions / Wt	: 335x280x135mm / 5 kgs.



HTA-850
AC, 12V DC Operation

Power Output	: 85W RMS at 10% THD/110W RMS Max
Input Channels	: Mic : 4x Mic. Aux : 1xAux
Frequency Response	: 50-15000kHz $\pm$ 3dB
Tone Controls	: Bass : $\pm$ 10dB at 100Hz Treble : $\pm$ 10dB at 10kHz
Speaker Output	: 4 Ω , 8 Ω , 16 Ω , 100V line
Output Level Indicator	: 5 Led Array
Dimensions / Wt	: 395x323x137mm / 9.7kg.



HTA-850
AC, 12V DC Operation

Power Output	: 120W RMS at 10% THD/160W RMS Max
Input Channels	: Mic : 5x Mic. 0.6mV/4.7 k Ω Aux : 1xAux 100mV/330k Ω
Frequency Response	: 50-15,000Hz $\pm$ 3dB
Tone Controls	: Bass : $\pm$ 10dB at 100Hz Treble : $\pm$ 10dB at 10kHz
Speaker Output	: 4 Ω , 8 Ω , 16 Ω , 70V & 100V
Dimensions (mm)	: 425(W)x137(H)x350(D)
Weight	: 11.8kgs.

PA Megaphones



PA Wireless Meeting Amplifier

Specification	
Power Output	: 60W Max
Input	: 2X Mic. 2.5mV, 1X Aux125mV, MP3/USB
S/N Ratio	: >60dB
Power Supply	: AC Main, DC 12V, Dry Cells
Microphone	
RF Output Power	: 10mV/15mV
Modulation Mode	: FM (F3E)
RF Carrier Freq.	: 8 Frequencies (170-200 MHz)
Frequency Resp.	: 50Hz-15,000Hz



Harman HL-18

Is a high output, compact shoulder type megaphone (LOUD HAILER)
The model -HL-18. Employs no Trouble of external noise or howling. Even at a high volume the voice is perfectly clear. Natural & howl - free.
It is provided with an effecient reflex horn which covers a range of 600 metres.

Salient Features

Rugged & Reliable.
Easy Portable.
Easy Operation : Volume control with on/off switch & controls volume by easy adjustment.
Economical : Powered from easily available dry cells.
(4/5UM-or equivalent)
Can be used in all weather conditions.
Low Battery consumption.

Applications

For traffic and Crowd control by Police.
By Fire Brigade and Military for numerous applications.
Addressing public gatherings.
At sports fields for coaching refereeing and commentary.
for mobile sales promotion activities in streets, towns, and villages.
Electioneering etc.