

SANSONIC

Complete System Solutions for
Audio, Video and Wireless Communication
in Educational Applications



HNB-A (Audio) + HNB-B (Video)
Modular Digital Audio and Video Mixer Amplifier



HNB-C (RF Wireless)

Modular Digital Wireless Mixer Amplifier System (add-on feature to HNB-A or HNB-A + HNB-B)

Wireless system includes the teacher headset (requires no body pack), student microphone, ADA student receiver 'pod-style' microphone and ear buds for assisted listening with simultaneous translation to a second language with no limit to the number of listeners in the room.

Teacher Headset is completely wireless and requires no bulky body pack. Sansonic's exclusive RF wireless technology eliminates 'dead spots' in the room, offers total mobility for changing rooms and buildings throughout the campus or district, and instantaneously 'pairs/bonds' the headset in seconds!



Teacher Headset



Student Microphone



ADA Receiver with Earphones

No bulky headphones. Students use 'ear buds' and a 'pod style' ADA receiver microphone.

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Audio, Video and Wireless Communication Systems

HNB-A + HNB-B + HNB-C (AUDIO + VIDEO + WIRELESS)



HNB-A (2-gang) and HNB-B (2-gang) may be installed into 4 or 6-gang 3.5" DEEP electrical boxes allowing for expansion with HNB-B and/or HNB-B + HNB-C (wireless). Note: 2-gang wall plates are provided.

HNB-A

Audio Amplifier / Preamp
(stand-alone AUDIO system)

HNB-B

Video / IR Control

HNB-C

RF Wireless

The HNB™ concept:

The HNB system is flexible, easy-to-install, use, upgrade and maintain. It is an affordable solution for any room requiring integration of audio, video and wireless 'Soundfield' amplification. HNB supports a wide range of Audio and A/V applications with built-in compatibility to laptops, desktop computers, A/V projectors, VCR, DVD, DVR, iPOD, MP3, and microphone input sources for use in teaching and training environments. The HNB system is a common sense 'purpose built' solution for universities, colleges, K-12 schools and corporate training facilities.

In addition to A/V application support, the HNB system unifies all major emergency communications systems into a comprehensive and seamless solution to everyday needs. HNB is simple in its design and operation providing immediate benefit to Consultants, Contractors and End-users.

The HNB™ building blocks: A + B + C

The HNB system is based on a simple premise of 'hang and bang' = Simple, Fast, Affordable, Reliable and Secure. From the ground-up HNB starts by using the most common device found throughout all building types in North America – the common NEMA/UL rated electrical gang box. HNB takes up no space in the room, is totally secure while using the most inexpensive and widely available mounting option in the market. HNB is a modular 'plug and play' system integrating the most basic media room elements of Audio (A) + Video (B) + Wireless (C) which interconnect via standard CAT5e UTP cable.

The HNB system always starts with the 'A' package (HNB-A) providing a 2-gang modular AUDIO system with an Amplifier and Preamp in addition to key I/O interconnections to vital room communication systems including; Fire and Alarm, Security, PA and Intercom (1v-70v), Archival or Recording systems, ancillary power amplifiers or 'control' audio systems.

If VIDEO is required and/or IR control is desired add the HNB-B unit. This additional 2-gang unit provides transmission of VGA/RGB, S-video, Composite video signals while providing a buffered VGA Monitor output. Video transmit and receive are accomplished via a single CAT5e UTP cable up to 150 feet to the AV Projector.

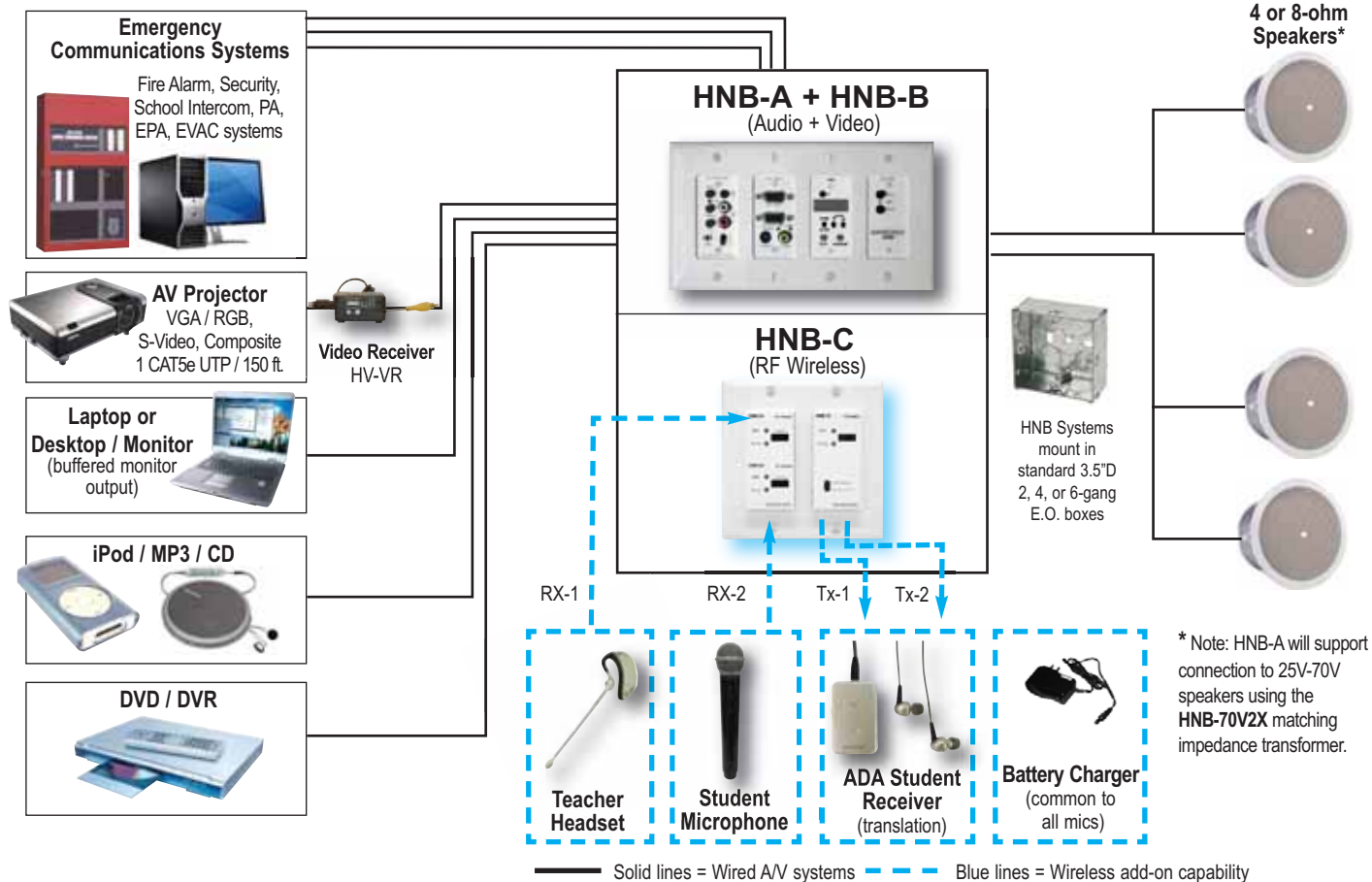
If WIRELESS 'Soundfield' teacher amplification or ADA assisted listening (hard of hearing) and or simultaneous 2nd language translation is important to improve the education experience for Teachers, Students, Parents and the Community then add HNB-C. The Wireless HNB-C can be added at anytime to HNB A or HNB A + B depending on your room requirements. HNB-C is an RF based system providing up to two (2) channels of transmit and two (2) channels of receive signals to headsets, hand-held microphones, and headphones which can be paired to any HNB-C equipped room in less than (30) seconds!

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Audio, Video and Wireless Classroom Applications

HNB-A + HNB-B + HNB-C (AUDIO + VIDEO + WIRELESS)



RF Wireless Technology:

- Permits an unlimited number of rooms to be equipped with wireless soundfield teacher amplification without room-to-room interference.
- Provides total mobility for the teacher to change rooms throughout the building, campus and/or district using the same, comfortable-to-wear Teacher Headset.
- Teacher headset will 'pair/bond' within seconds of entering the room and is completely wireless requiring no bulky body pack.
- Achieves total coverage - eliminating amplification dead spots.
- Facilitates ADA assisted listening with simultaneous translation to a second language with no limit to the number of potential listeners.

Additional Applications

The HNB-A and HNB-B systems are capable of supporting numerous applications, including but not limited to: **ALL EDUCATION** classrooms, **CORPORATE** boardrooms, conference rooms, break-out areas, briefing centers, lobbies, private offices, **ENTERTAINMENT** theater backstage dressing rooms, green rooms, practice rooms, stadium skyboxes, concession stands, **RETAIL** stores, restaurants and salons, **HOSPITALITY** rooms, **CHURCH** multi-use, overflow areas, **HEALTHCARE** surgery or recovery, lobbies, doctors offices, administration areas and wherever a complete communication package for audio and video with wireless add-on capability is desirable.



HNB Competitive Feature Comparison

HNB-A + HNB-B + HNB-C (AUDIO + VIDEO + WIRELESS)

Manufacturer	Sansonic HNB A+B+C	Audio Enhancement	Lightspeed	Teach Logic	Front Row	Bogen
		Ultimate II	880iR	Spectrum	Pro	Enhancer
Amplifier power	50W	72W	72W	40W	40W	35-65W
Wireless technology (HNB-C)	RF	IR	IR	IR	IR	IR
Requires body pack wires with batteries	No	Yes	Yes	Yes	Yes	Yes
Secure in-wall, surface or in-ceiling mount (EO/J-box compatible)	YES	No	No	No	No	No
IR Headset (Tx) / Headphone (Rx) pairing	YES	No	No	No	No	No
ADA transmit with receive headphones (2 channels)	YES	No	No	No	No	No
Wireless channels per system (Rx + Tx)	4	2	2	2	2	2
Video inputs to projector	YES	No	No	No	No	No
Fire and alarm override	YES	No	No	No	No	No
Intercom / paging override 1V-70V	YES	No	No	Yes	No	No
Security override with alarm tone	YES	No	No	No	No	No
Number of audio inputs	4	3	4	3	2	3
Audio line out - record, podcast, larger system	YES	No	No	Yes	No	No
Headset mobility 'PAIR' to any room / any channel	YES	No	No	No	No	No
Simultaneous translation - 2nd language	YES	No	No	No	No	No
Plug-in options upgrade	YES	No	No	No	No	No
Stereo / mono operation	YES	Yes	Yes	Yes	Yes	Yes
EMI-RFI protection	YES	No	No	No	No	No
'HAC' Hearing aid compatible headset (FCC)	YES	No	No	No	No	No
Remote IR audio control	YES	No	No	No	No	No
Video input types	VGA, S, Composite	None	None	None	None	None
VGA/RGB output to desktop monitor	YES	No	No	No	No	No
USB mini jack battery charger interface / power from computer	YES	No	No	No	No	No
Battery type	Lithium polymer + NiMH AA	NiMH AA	NiMH AA	NiMH AA	NiMH AA	NiMH AA
Battery charger - recharge time (full charge headset)	100 minutes	12 hrs	10 hrs	3 hrs	6 hrs	8 hrs
Battery charger DOE / EPA Energy Star Rated	YES	No	No	No	Yes	No

Ask about Sansonic's other HNB™ Series Digital Amplifiers



*HNB™ Digital Audio Mixer Amplifier
Model HNB-PA225*



*HNB™ Modular
Digital Audio Power Amplifiers*

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