



ASB-10 Active Soundbar & **WS-10** Wireless Subwoofer



What is a big TV without big sound?

Your slim TV may well deliver ever wider more enveloping pictures, but have you noticed how puny it sounds? Size limitations imposed by shrinking TV bezels mean that the speakers within them reproduce only a fraction of the bandwidth available from today's DTV boxes, games consoles and media players. The ASB-10 compact Active Soundbar system, complete with optional WS-10 Active Subwoofer and wide-ranging wireless functionality, is expertly engineered to re-energise HD and UHD pictures with the rich, detailed, immersive sound you've been missing. Easily and oh so discreetly, your experience of TV is about to be transformed.



Back

Movies, Music and Magic from the ASB-10

Equipped with a precision-tuned high performance 2.0 audio design comprising proprietary driver/amp pairings, integrated Dolby Digital processing and superior Bluetooth aptX™ wireless streaming, the super-slim ASB-10 will generate big audio dynamics from TV, games, discs and smartphones, to become the audio hub for every home.

Power, precision, performance in one

With a compact 100 x 94 mm cross section and just 904 mm in length, the discreetly proportioned ASB-10 complements the look of flat screens from wall or table-top positions. Its slim moulded polymer cabinet with black cloth grille and stylish brushed aluminium end trims houses an array of four Monitor Audio 3" C-CAM bass drivers (assisted by a brace of passive bass radiators), and twin 25 mm Gold Dome C-CAM tweeters. The ASB-10's proprietary drive-unit configuration is powered by four integral DSP-trimmed amplifiers, individually calibrated by Monitor Audio engineers for optimum audio control and response. From so svelte a system the result is a size-defying success, injecting your music and film sound with greater scale, detail and rhythmic mid-bass definition.

Easy setup and operation

Installation couldn't be any simpler. A single, easy, optical or coaxial SP-DIF link to the TV allows the ASB-10 to decode digital audio from connected sources. Activated automatically when a signal is received, the ASB-10's on-board Dolby Digital and Dolby Pro-Logic II decoding ensures wide compatibility with film and games content. Dolby's Virtual Speaker processing, which is designed to replicate a three-dimensional surround sound experience, is enabled via a button located on the front panel or remote handset. In addition the ASB-10 will energise streams of uncompressed CD-quality audio from your smartphones and tablets through its effortless Bluetooth aptX wireless technology, and also accept legacy analogue sources via a 3.5 mm stereo input.

Simple to set-up and easy to use and expand, Monitor Audio's super-flexible system of ASB-10 Active Soundbar with optional companion WS-10 Active Subwoofer applies over four decades of award-winning audio precision to restore the sound you're missing from your TV and help you complete the high definition AV experience in your home. Easy, dynamic and beautifully discreet.

WS-10 Wireless Subwoofer



Vertical orientation



Back/Underneath



Horizontal orientation
(Inc. Feet)

What is a big TV without big bass?

For low frequency enthusiasts Monitor Audio has developed the WS-10 Active Subwoofer, purpose-built to add big bass dynamics to the ASB-10 system and all space-efficient set-ups.

The ideal complement to the ASB-10 Active Soundbar

The compact WS-10 wireless Active Subwoofer is an ideal complement to augment the ASB-10 Active Soundbar. No other components are required, since wireless links are already built in; resulting in an amazingly compact, high performance 2.1 system for music and film. However, WS-10 can be considered for any application, where a compact wireless subwoofer is required. An optional WT-1 Wireless Transmitter can be used to connect the WS-10 wirelessly to other active soundbars, AVR or amplifiers; providing unrivalled flexibility and performance.

Incredibly punchy bass lines

The long throw 8" C-CAM driver is driven by a powerful 150 W amplifier to fire out incredibly punchy bass lines and thunderous movie sequences. The unit will switch on automatically from a low power standby state when a signal is received either wirelessly, or using the LFE connection. It will drop back into standby when

a signal is not received for around 15 minutes. Alternatively, a 12 V trigger connection can be made to an AVR to ensure precise switch on and off with the system. EQ setting can be selected for optimised performance for music, movie or impact. This would be selected in terms of primary use of the system, or simply personal taste. Music setting provides a flat EQ profile, where the movie setting provides a degree of boost to give great sense of scale and drama. Impact has been optimised for overall output level and sacrifices low frequency extension.

The rigid cabinet is built from 15 mm MDF to deliver solid performance and quality. Twin HiVe ports help to create thunderous bass lines, and yet remains taut and controlled. The WS-10 also has a wired LFE connection, which enables it to be used in a conventional format. Unlike most other subwoofers, the WS-10 is not a cube, but has a slim profile to make it more flexible in terms of positioning. It can easily be placed against a wall or located underneath a couch to create an unobtrusive aspect in either a horizontal or vertical orientation. Thanks to the wireless operation, it can be placed almost anywhere – just a power source is required.

The WS-10 Active Subwoofer represents one of the most flexible and home friendly subwoofers we have ever built.



ASB-10 Active Soundbar and WS-10 Wireless Subwoofer



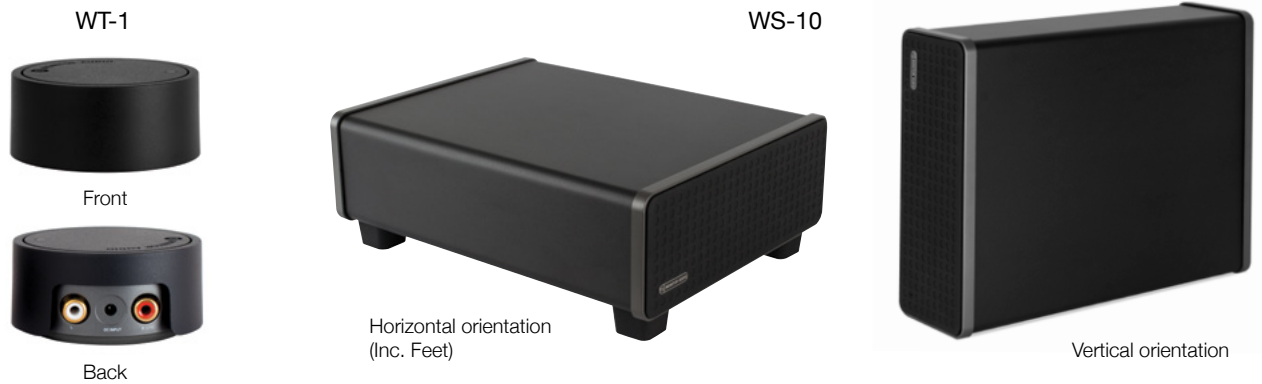
Using the ASB-10 Active Soundbar with other subwoofers

The ASB-10 can be connected to most active subwoofers with the help of our optional diminutive WR-1 Wireless Receiver. The ASB-10's built-in wireless transmitter will broadcast to our WR-1 Wireless Receiver automatically. It's as simple as connecting the WR-1's R(LFE) terminal to your active subwoofer's LFE input with a coaxial cable and plug in the mains power supply. Measuring just 68 mm round by 32 mm high, the WR-1 receiver establishes an automatic lossless audio connection between the ASB-10 and active subwoofers over a range of up to 10 metres. The unobtrusive, ultra-compact module then uses digital signals in the 2.4 GHz band to receive uncompressed full-range audio through the air between them. Effortless installation replaces long runs of ugly wire to wirelessly extend the power of our ASB-10, and enable full-range, wire-free performance and convenience. NOTE: Stereo output is not supported from the ASB-10 to the WR-1.



Using the WS-10 Wireless Subwoofer with other sources/amplifiers

The WS-10 can be connected to most other sources/amplifiers with the help of our optional diminutive WT-1 Wireless Transmitter. The WS-10's built-in wireless receiver will connect to our WT-1 Wireless Transmitter automatically. It's as simple as connecting the WT-1 to your source with coaxial cables and plug in its mains power supply. Measuring just 68 mm round by 32 mm high, the WT-1 transmitter establishes an automatic lossless audio connection between the WS-10 and the source/amplifier over a range of up to 10 metres. The unobtrusive, ultra-compact module then uses digital signals in the 2.4 GHz band to receive uncompressed full-range audio through the air between them. Effortless installation replaces long runs of ugly wires to wirelessly extend the power of our WS-10, and enable full-range, wire-free performance and convenience.



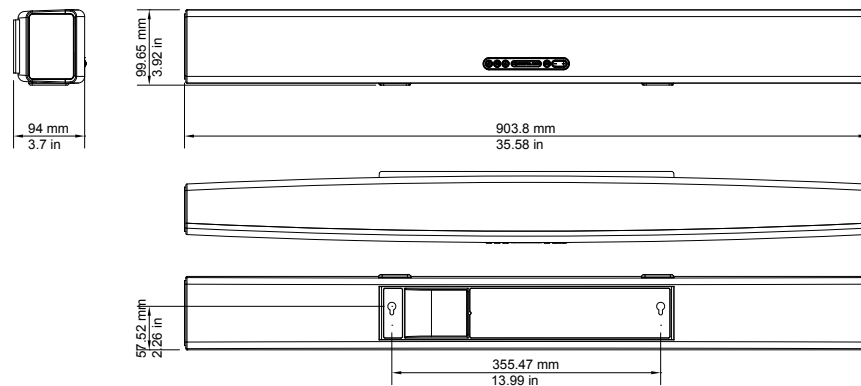
ASB-10 Active Soundbar and WS-10 Wireless Subwoofer



Key Features

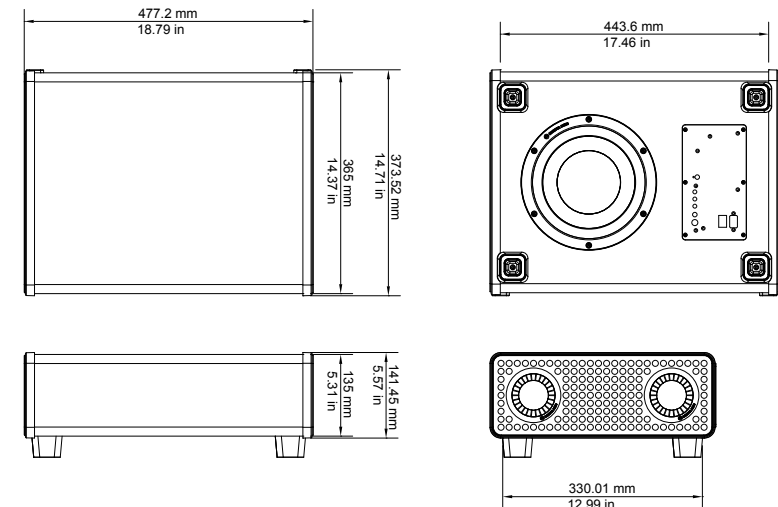
ASB-10

- 2.0 Active Soundbar
- 100 W delivered by four Class D amplifiers for ample power and clarity
- Monitor Audio calibrated DSP processing provides precision filters and processing for all drivers individually
- 4 x 3" C-CAM metal cone bass mid-range drivers
- 2 x 25 mm C-CAM Gold Dome tweeters
- 2 x ABRs (Auxiliary Bass Radiators)
- Compact dimensions for easy positioning beneath the TV, on-wall or cabinet location
- Digital wireless 2.4 GHz transmitter built-in for lossless/uncompressed signal transfer to optional WS-10 subwoofer
- Bluetooth for easy music playback from smartphone, tablet or PC featuring high quality 'CD like' aptX codec
- Dolby Digital, Dolby Pro-Logic II and Dolby Virtual Speaker processing
- Optical and Coaxial SPDIF inputs
- Analogue input (3.5 mm stereo jack)
- IR Remote control handset supplied
- Moulded polymer cabinet with black cloth grille and brushed aluminium end trims



WS-10

- Wireless Active Subwoofer
- Class D amplifier delivering 150 W
- 8" long throw C-CAM bass mid-range driver
- Compact dimensions for flexible room positioning flat against a wall, in corners, under furniture etc.
- 2.4 GHz receiver built-in for lossless/uncompressed audio reception in wireless applications
- Analogue LFE input
- Volume and phase controls
- Bass EQ settings optimised for music, movie or impact
- 12 V trigger input (3.5 mm jack) to provide automatic switch on from AVR or other equipped amplifier
- Power selection switch for auto standby or trigger
- Rigid MDF construction with black sand vinyl finish
- Dual HiVe port system

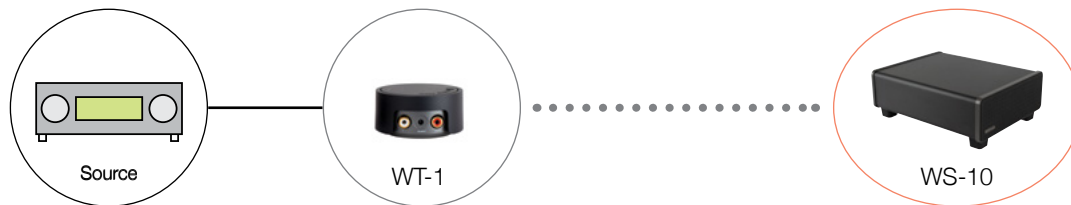
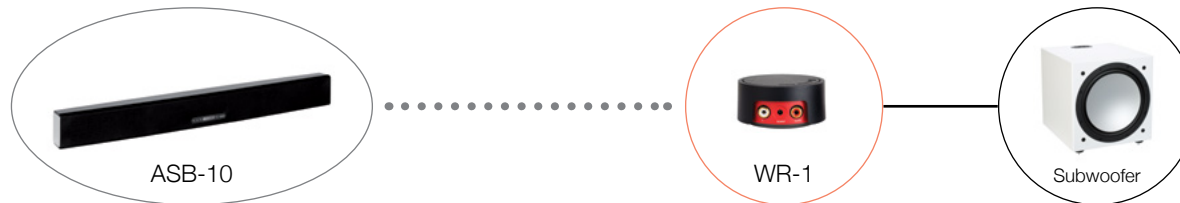


ASB-10 Active Soundbar and WS-10 Wireless Subwoofer



Wireless connection configurations

There are a number of configurations that can be utilised using the ASB-10, WS-10 and WT-1/WR-1.



ASB-10 Active Soundbar and WS-10 Wireless Subwoofer



Specifications

	ASB-10
Frequency Response	65 Hz – 20 kHz
Maximum SPL	105 dBA (@ 1m)
Power Output (RMS)	Bass/ Mid-range: 2 x 30 W Tweeter: 2 x 20 W
Drive Unit Complement	4 x 3" (76.2 mm) Bass/ Mid-range Drivers with C-CAM Metal Cone Technology 2 x 1" (25 mm) C-CAM Gold Dome Tweeter
System Configuration	Dual ABR (Auxiliary Bass Radiator) System
Inputs	Digital Optical (toslink), Digital RCA (SPDIF), Analogue 3.5 mm Stereo Jack, USB A – For Firmware Updates, Figure 8 IEC Mains Power Socket
Outputs	2.4 GHz Wireless Subwoofer RCA Subwoofer Output
Bluetooth	Frequency Band: 2400 – 2483.5 MHz RF Power: ≤10 dBm
Wireless	Frequency Band: 2400 – 2483.5 MHz RF Power: 2400 – 2483.5 MHz ≤20 dBm
Firmware Version	asb_i2s_20170324_MP_candidate & asb_mcu_170323 (at time of print)
Remote Control	IR (infra-red) - IR Codes Available
AC Input Voltage	90 – 264 V (auto-range)
Amplifier Category	Class D
Power Consumption	<0.5 W Standby – ErP Certified. 100 W Maximum
Formats	Dolby Digital, Dolby Pro Logic II, Dolby Virtual speaker v2.0*, Bluetooth v4.0 with aptX
Electrical Approvals	ETL/ CE/ FCC/CB/ Erp/Bluetooth/ Dolby Laboratories Inc
Dimensions (each) (H x W x D)	100 x 904 x 95 mm / 3 ^{15/16} x 35 ^{9/16} x 3 ^{3/4} "
Colour/ Finish	Charcoal Grey with Black Grille Cloth
Weight (each)	5 kg (11 lb)

*Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.

	WS-10
System Format	Active sub-woofer system – Dual HiVe Bass Reflex Port 15 mm MDF cabinet (CARB2 approved)
Low Frequency Limit	40 Hz (-6 dB)
Amplifier Power Output	150 W @ < 1% THD+N
Maximum SPL	105 dBA (@1 m)
Amplifier Classification	Class D amplifier with switch mode power supply (SMPSU)
Bass EQ Switch	Music / Movie / Impact
Phase Control	0 & 180°
Auto Sensing	LFE Input <2 mV Auto wireless audio input signal detection
Auto Standby	After approximately 20 minutes if no signal sensed Wireless audio source turned off
Wireless	Frequency Band: 2400 – 2483.5 MHz RF Power: 2400 – 2483.5 MHz ≤20 dBm
Driver Compliment	1 x 8" (200 mm) C-CAM long throw driver
Input Impedance	> 20 K ohms
Mains Input Voltage	AC 90 –264 V ~ 50/60 Hz (Auto Ranging)
Connections	2.4 GHz Wireless receiver, LFE in, 12 v Trigger in (3.5 mm mono mini-jack)
12 V Trigger Input	5 – 12 V via 3.5 mm mono mini-jack socket
Power Consumption	Standby: < 0.5 W (ErP approved) Typical Idle: < 10 W Max Rated: 100 W
Dimensions (H x W x D) (Horizontal Inc feet)	173 x 374 x 478 mm 6 ^{13/16} x 14 ^{3/4} x 18 ^{13/16} "
Dimensions (H x W x D) (Vertical Inc feet)	374 x 141.5 x 478 mm 14 ^{3/4} x 5 ^{9/16} x 18 ^{13/16} "
Weight (unpacked)	9.70 kg (21 lb 6 oz)

WT-1 / WR-1

Format	Compact Wireless transmitter and receiver modules
Frequency Response	20 Hz – 20 kHz
Wireless Type	Lossless/uncompressed Digital 2.4 GHz band
Wireless Range	10 m (dependant on building construction)
Input/Output Impedance	>20 k ohms
Inputs	Analogue stereo inputs/outputs (RCA)
A.C Mains Adaptor	External plug type power supply (94 – 264 VAC) 5 V output with world plug pins
D.C Input Voltage	5 V @ 50 mA
Indicators	LED – on/connected
Power Consumption	<0.5 W standby – ErP certified
Dimensions	68 mm round x 32 mm high / 2 ^{11/16} x 1 ^{1/4} "
Approvals	ETL/ CE/ FCC/CB/ ErP



NOTE: The WT-1 Wireless Transmitter can be paired with the WR-1 Wireless Receiver to send a wireless signal between most types of audio equipment. (Sold separately. Not required for pairing ASB-10 to the WS-10).

Monitor Audio Ltd
24 Brook Road,
Rayleigh, Essex,
SS6 7XJ England
T. + 44 (0)1268 740580
F. + 44 (0)1268 740589
E. info@monitoraudio.co.uk