

# SP-1800PBT ACTIVE LOUDSPEAKERS

## OWNERS MANUAL




[www.visionaudiovisual.com/techaudio/sp-1800p](http://www.visionaudiovisual.com/techaudio/sp-1800p)

## DECLARATION OF CONFORMITY


Where applicable Vision products are certified and comply with all known local regulations to a 'CB Certification' standard. Vision commits to ensure all products are fully compliant with all applicable certification standards for sale in the EU and other participating countries.

The product described in this owner manual is in compliance with RoHS (EU directive 2002/95/EC), and WEEE (EU directive 2002/96/EC) standards. This product should be returned to the place of purchase at the end of its useful life for recycling.


## WARNINGS




**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

All products are designed and imported into the EU by 'Vision' who is wholly owned by 'Azlan Logistics Ltd.', Registered in England Nr. 04625566 at Lion House, 4 Pioneer Business Park, Clifton Moor, York, YO30 4GH. WEEE Registration: GD0046SY



## DECLARATION OF ORIGIN

All Vision products are made in the People's Republic of China (PRC).

## **USE ONLY DOMESTIC AC OUTLETS**

Connecting the unit to an outlet supplying a higher voltage may create a fire hazard.

## **HANDLE THE POWER CORD WITH CARE**

Do not disconnect the plug from the AC outlet by pulling the cord; always pull the plug itself. Pulling the cord may damage it. If you do not intend to use your unit for any considerable length of time, unplug the unit. Do not place furniture or other heavy objects on the cord, and try to avoid dropping heavy objects on it. Do not tie a knot in the power cord. Not only could the cord be damaged, but a short circuit could also be caused with a consequent fire hazard.

## **PLACE OF INSTALLATION**

Avoid installing this product under the following conditions:

- Moist or humid places
- Places exposed to direct sunlight or close to heating equipment
- Extremely cold locations
- Places subject to excessive vibration or dust
- Poorly ventilated places

Do not expose this product to dripping or splashing. **DO NOT PLACE OBJECTS FILLED WITH LIQUIDS ON OR NEAR THIS PRODUCT!**

## **MOVING THE UNIT**

Before moving the unit, be sure to pull out the power cord from the AC outlet and disconnect the interconnection cords with other units.

## **WARNING SIGNS**

If you detect an abnormal smell or smoke, turn this product off immediately and unplug the power cord. Contact your reseller or Vision.

## **PACKAGING**

Save all packing material. It is essential for shipping in the event the unit ever needs repair.

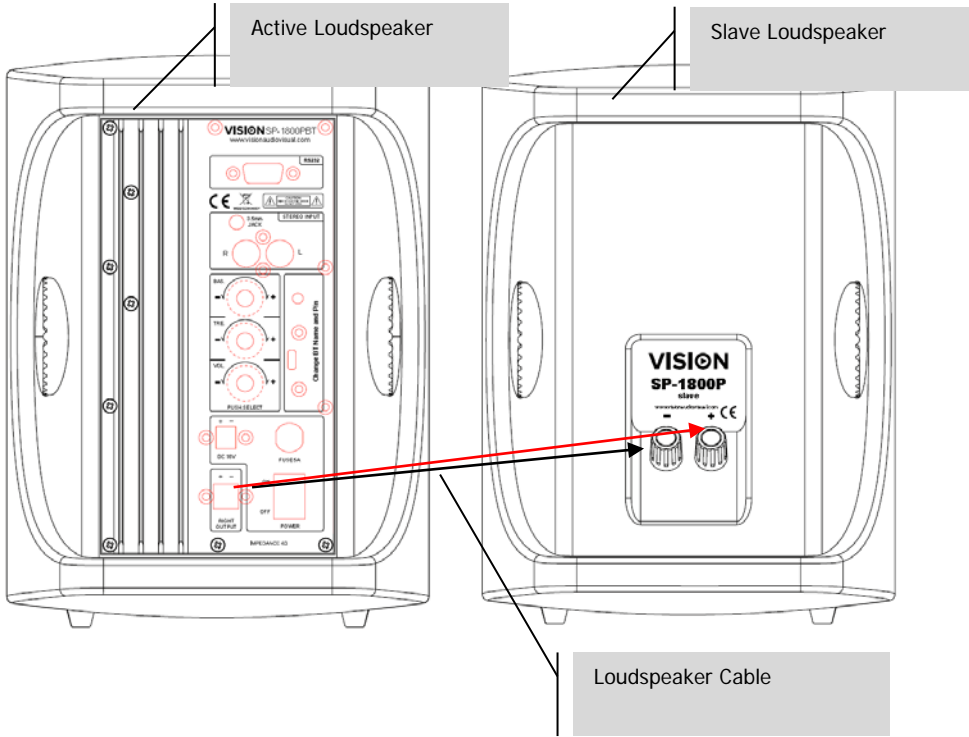
**IF ORIGINAL PACKAGING IS NOT USED TO RETURN THE UNIT TO THE SERVICE CENTRE, DAMAGE IN TRANSIT WILL NOT BE COVERED BY WARRANTY.**

## **WATTS**

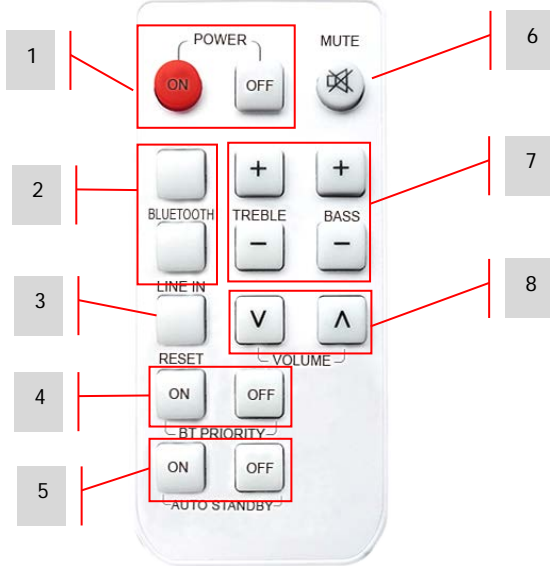
The most consistent standards for measuring watts are "Program Power" and "RMS" because these measure average sustained levels.

Where loudspeakers have integrated amplifiers, then load (resistance, measured in ohms) is known so the wattage rating is fixed.

# CHASSIS



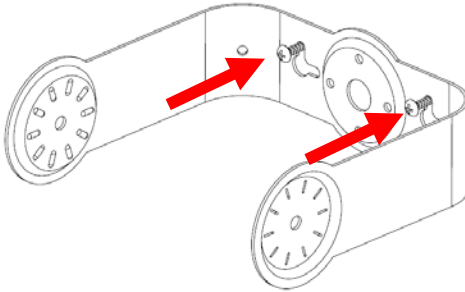
## REMOTE CONTROL



1. POWER On / Off
2. INPUT SELECT Bluetooth / Line-level (cabled) input
3. RESET tone factory reset
4. BLUETOOTH PRIORITY auto-switches when BT device paired
5. AUTO STANDBY activate or deactivate
6. MUTE
7. TONE treble and bass
8. VOLUME

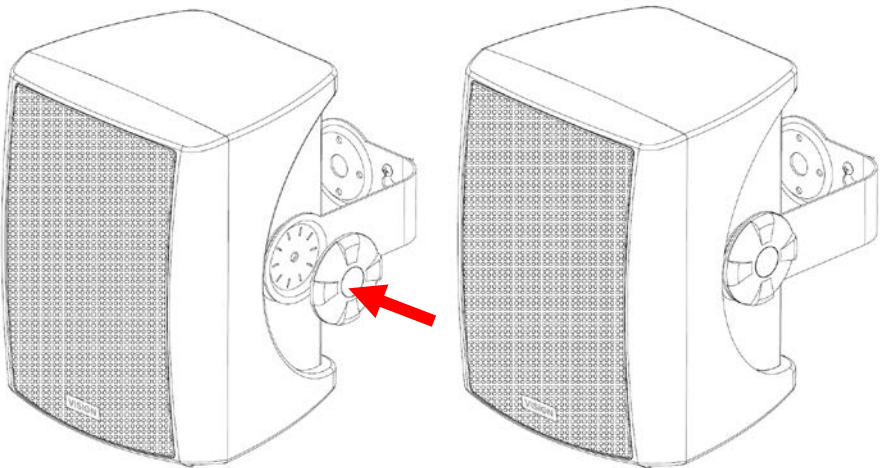
## INSTALLATION

1. **FIT BRACKETS TO WALL** Position brackets over load-bearing studs and use appropriate screws to fix brackets to wall or ceiling. Ensure they are level.

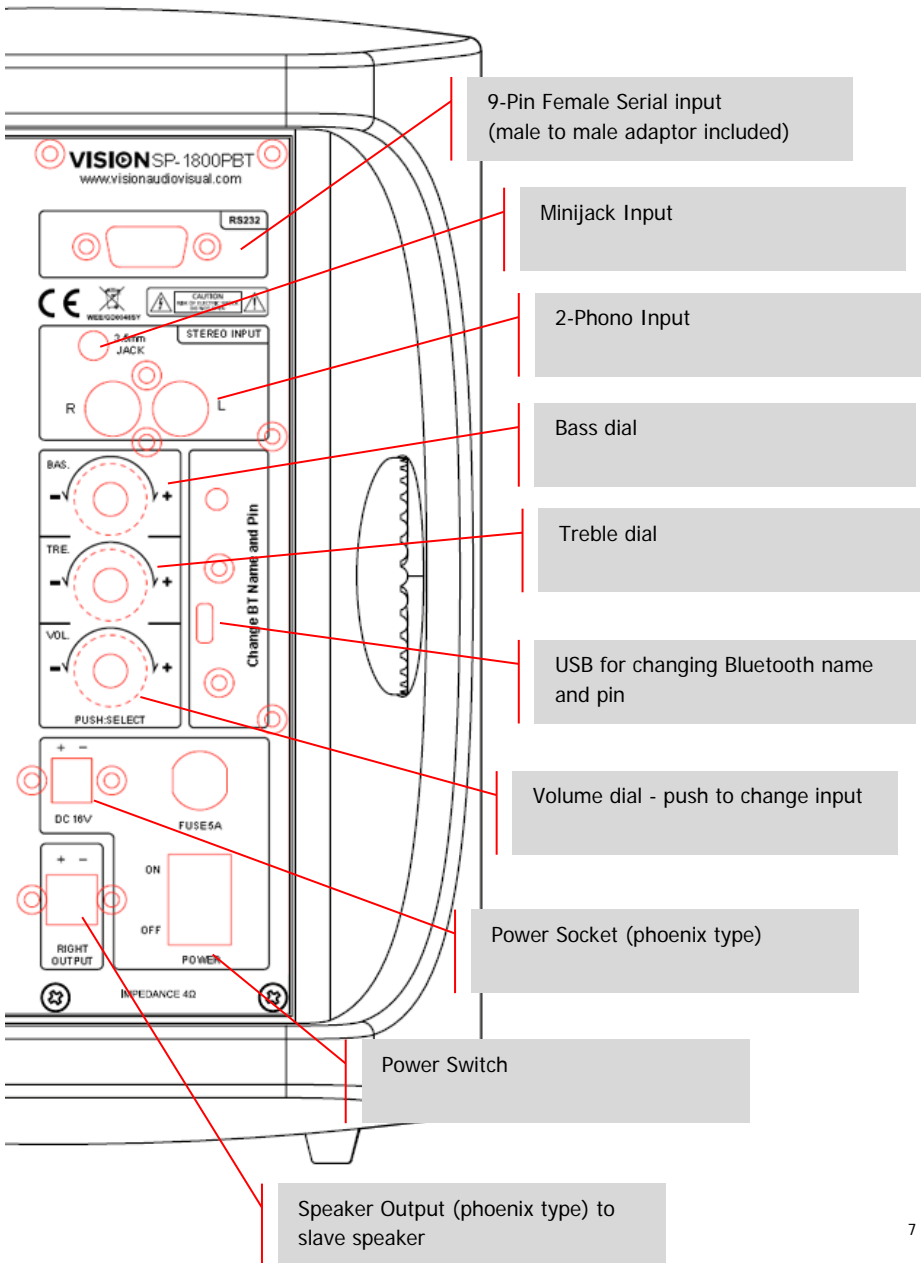


**NOTE:** Do not position the top of bracket closer than 140mm to cornice.

2. **INSTALL POWER AND INPUT CABLE** Run power and input cables from source positions to the master.
3. **INSTALL SPEAKER CABLE** Run included speaker cable between speaker brackets. If cable too short use unshielded speaker cable with gauge of 0.75mm or higher.
4. **FIT SLAVE LOUDSPEAKER TO BRACKET** Fit as shown



5. CONNECT MASTER LOUDSPEAKER With power switch off, connect input and output cables.



6. FIT MASTER LOUDSPEAKER TO BRACKET Fit as shown in point 4.
7. ACTIVATE POWER Turn mains power on with switch on Master.

NOTE: The Minijack and 2-Phono inputs are summed.

### **BLUETOOTH AUTO-SWITCHING**

Use BT PRIORITY on remote control to enable auto-switching from line-level input to Bluetooth input when a Bluetooth device is paired.

If OFF switching needs to be done manually.

*Note: Bluetooth is not always implemented properly on PCs so it may not work properly.*

### **AUTO STANDBY**

Use AUTO STANDBY on remote control to enable auto standby feature. This turns the loudspeakers to standby after 30 minutes of inactivity.



## STATUS INDICATORS

On the front panel is a row of status LEDs:

**BLUE LED** – Bluetooth input

Flashing slowly: Bluetooth is in pairing mode

On: Device paired

If devices unpaired it will turn off after 10 minutes.

**YELLOW** – line-level input

On: cable input selected

**RED LED** – Amplifier in standby

Flashing slowly: mute activated

Flashing quickly: IR from remote control being received

On: loudspeakers off

## BLUETOOTH INPUT

**DEFAULT PIN: 1111**

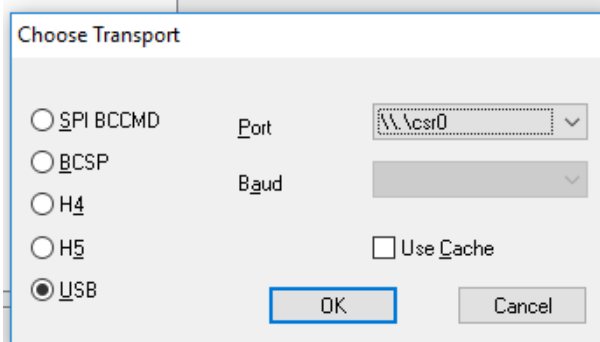
When speakers are turned on or when Bluetooth selected, the Bluetooth radio will be in pairing mode for 10 minutes. The Blue LED will flash while in pairing mode, then stay on when paired.

If “Bluetooth Priority” is on the speakers will automatically switch to the Bluetooth source when a device is paired.

## CHANGE BLUETOOTH DEVICE NAME AND PIN

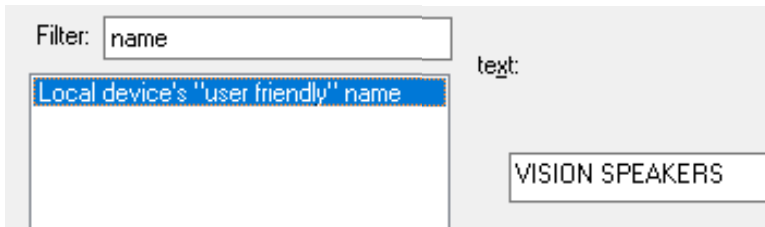
1. DOWNLOAD AND INSTALL BLUESUITE SOFTWARE (WINDOWS ONLY) FROM <https://visionaudiovisual.com/techaudio/sp-1800p/>
2. PAIR PHONE TO SPEAKERS
3. PRESS BUTTON ON REAR OF SPEAKERS Release when Blue LED on front turns off
4. CONNECT PC TO SPEAKERS WITH USB CABLE (NOT INCLUDED)

5. RUN PStool APPLICATION. Select **USB\csr0** port as below

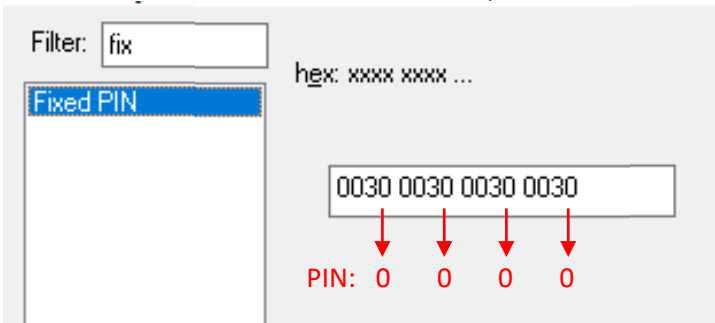


NOTE: if port is not showing load drivers manually from  
*C:\Program Files (x86)\CSR\BlueSuite 2.6.4\drivers*

6. TYPE "NAME" IN FILTER Adjust then select **Set**



7. TYPE "FIX" IN FILTER The current PIN in this example is shown below:



Adjust PIN (last digit of each group), then press **Set and Reset BC**.

## RS-232 CODES

Table 1: Command Codes

HEX Codes (16 Bytes)	Function
98 11 11	ON
98 15 15	OFF
98 05 05	MUTE
98 01 01	BLUETOOTH
98 09 09	LINE IN
98 08 08	TREBLE+
98 0D 0D	TREBLE-
98 0C 0C	BASS+
98 12 12	BASS-
98 10 10	RESET
98 07 07	VOL+
98 0B 0B	VOL-
98 02 02	BTPRIORITY ON
98 04 04	BTPRIORITY OFF
98 00 00	AUTOSTANDBY ON
98 5C 5C	AUTOSTANDBY OFF
98 A0 A0	Volume Step 0 (MIN)
98 A1 A1	Volume Step 1
98 A2 A2	Volume Step 2
98 A3 A3	Volume Step 3
98 A4 A4	Volume Step 4
98 A5 A5	Volume Step 5
98 A6 A6	Volume Step 6
98 A7 A7	Volume Step 7
98 A8 A8	Volume Step 8
98 A9 A9	Volume Step 9
98 AA AA	Volume Step 10

HEX Codes (16 Bytes)	Function
98 AB AB	Volume Step 11
98 AC AC	Volume Step 12
98 AD AD	Volume Step 13
98 AE AE	Volume Step 14
98 AF AF	Volume Step 15
98 B0 B0	Volume Step 16
98 B1 B1	Volume Step 17
98 B2 B2	Volume Step 18
98 B3 B3	Volume Step 19
98 B4 B4	Volume Step 20
98 B5 B5	Volume Step 21
98 B6 B6	Volume Step 22
98 B7 B7	Volume Step 23
98 B8 B8	Volume Step 24
98 B9 B9	Volume Step 25
98 BA BA	Volume Step 26
98 BB BB	Volume Step 27
98 BC BC	Volume Step 28
98 BD BD	Volume Step 29
98 BE BE	Volume Step 30
98 BF BF	Volume Step 31
98 C0 C0	Volume Step 32
98 C1 C1	Volume Step 33
98 C2 C2	Volume Step 34
98 C3 C3	Volume Step 35
98 C4 C4	Volume Step 36 (MAX)

Baud rate: 9600 K

Stop bit: 1

1/ Volume adjustment only works when mute is not activated.

2/ Auto-Standby activates after 30 minutes of mute or no operation. Any adjustment turns standby off.

Table 2: Return Codes

HEX Codes	Name	Function	Return codes		Remarks
98 D0 D0	STANDBY	Speaker working Status	0	1	ON/Working = 1 OFF/Standby = 0
98 D1 D1	MUTE	Mute On/Off	0	1	Mute Off = 0 Muted = 1
98 D2 D2	PT2314E_SELECT	Input Select	0	1	Bluetooth = 0 Line In = 1
98 D3 D3	PT2314E_GAIN_GET	Volume Gain	0	36	36 steps total
98 D4 D4	PT2314E_B_GAIN_GET	Bass Gain	0	14	14 steps total
98 D5 D5	PT2314E_T_GAIN_GET	Treble Gain	0	14	14 steps total
98 D6 D6	BT_BIT	Bluetooth status	0	2	BT paired = 0 BT pairing = 1 BT OFF = 2
98 D7 D7	BT_PRIORITY	BT Priority Status	0	1	BT Priority OFF = 0 BT Priority ON = 1
98 D8 D8	AUTO_STANDBY	Auto standby Status	0	1	Auto standby OFF = 0 Auto standby ON = 1

## TROUBLESHOOTING

If your system is not operating properly, please refer to the following information. If the problem persists, disconnect from power and contact your AV reseller immediately.

Problem	Correction
No power light	Press volume control. Check power source and power input cable. Check fuse
Power light on but no sound	Press volume buttons on master loudspeaker to turn up.  Make sure the output volume on your test device is at full and that it works through the built-in device loudspeakers.
Hum or noise	Check that all input cables shielded properly. Poor quality cable with uneven shielding introduces noise.  Make sure all source devices are connected to the same power source. If disconnecting a laptop from power solves the problem then this is definitely the cause of the problem.
Slave loudspeaker not working	Check speaker cable to ensure there a proper connection at both ends.
Slave loudspeaker is quieter than master loudspeaker	This is typically caused by the use of incorrect cable between the master and slave loudspeakers. It is too thin, or shielded. Replace immediately.

## **SPECIFICATIONS**

PRODUCT DIMENSIONS: 244 x 180 x 174 mm /9.61" x 7.1" x 6.85" (tall x wide x deep for each speaker)

PRODUCT WEIGHT: 4.78 kg /10.54 lbs (per pair)

CONSTRUCTION MATERIAL: ABS

COLOUR: White

### **TECHNICAL DETAILS:**

Amplifier Output: 2 x 30 watts (RMS)

Woofers: 5.25"

Tweeter: 0.5" + Piezo 1"

Input 1: Minijack (3.5mm)

Input 2: 2-Phono (RCA)

Speaker Output: Removable Phoenix type

Speaker Input (on slave): Bare-wire screw type

Bluetooth renaming port: Micro USB

Output Impedance: 4 ohms

Sensitivity: 85 dB (1w/1m)

Frequency response: 50Hz-20kHz

Power Consumption:  $\leq$  100 w

POWER SUPPLY: 100-240v 50/60Hz AC External Power Supply – 16 volt / 5.4 amp.

Laptop-style transformer. Includes 4 x 0.5m (1.6 ft) figure-8 power cables: UK/EU/US/AU. DC tail length: 4m (13.1 ft).

Transformer dimensions: 149 x 59 x 35 mm / 5.9" x 2.3" x 1.4"

### **ACCESSORIES INCLUDED:**

2 x Wall brackets

1 x Euro Figure-8 Power cable 0.5 m (1.6') long

1 x UK Figure-8 Power cable 0.5 m (1.6') long

1 x AU Figure-8 Power cable 0.5 m (1.6') long

1 x US Figure-8 Power cable 0.5 m (1.6') long

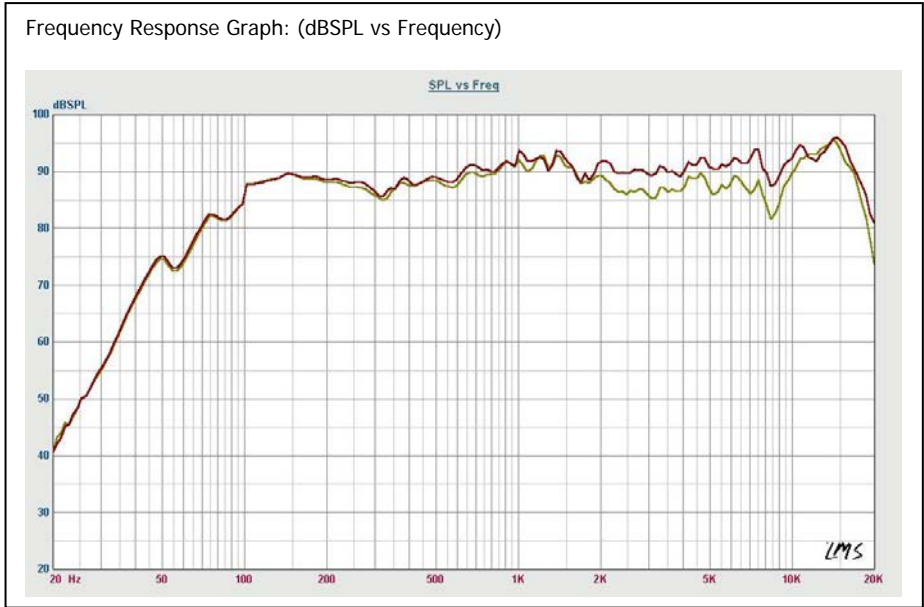
1 x Speaker Cable 5 m (16.4') long

1 x Remote Control (Battery included: CR2025 3V Li-Mn)

1 x Male to male serial adaptor

WARRANTY: Lifetime return-to-base / 2 years onsite (UK only)

COMPLIANCE: RoHS, CE/EMC, CE/ EMC-TR, FCC, FCC-V, IEC-TR, RCM, RCM/EMC, RCM/TVC, RCM-D



## LIFETIME RETURN-TO-BASE WARRANTY

This product comes with a lifetime return to base warranty. If you have a problem you are required to provide a DETAILED DESCRIPTION of the fault.

Some Vision products are very technical and require troubleshooting all elements of the installation as it may not be the Vision product at fault. Because of this the manufacturer may refuse to replace the item if an adequate description is not provided.

- This warranty applies only to the original purchaser and is not transferable.
- This warranty protects you against the following:
  - Failure of any components, including the power supply.
  - Damage when the product is first removed from its packaging if reported within 24 hours of purchase.
- If the product is DOA (dead on arrival), you have 21 days from purchase date to notify the national distributor via your AV reseller.
- The original purchaser is responsible for shipment of the product to the Vision's appointed service centre.
- The liability of Vision is limited to the cost of replacement of the faulty unit under warranty except for death or injury (EU85/374/EEC).
- If the product is end of line (EOL) the Vision will provide a credit instead of replacement.
- This warranty does not protect this product against faults caused by abuse, misuse, incorrect installation, unstable or faulty power input, or modification.

Vision aims to send a replacement item within 5 working days however this may not always be possible, in which case it will be sent as soon as practicably possible. UK End users and resellers can request support at <http://www.visionaudiovisual.com/support>

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