

# CS-1600P POWERED SPEAKERS

## OWNERS MANUAL




[www.visionaudiovisual.com/techaudio/cs-1600p](http://www.visionaudiovisual.com/techaudio/cs-1600p)

## 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

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.**

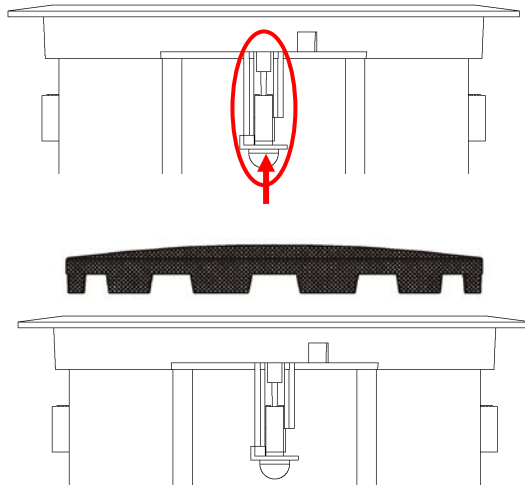
## **WATTS**

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

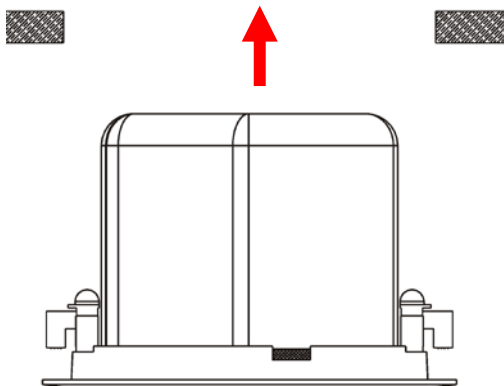
Where loudspeakers have integrated amplifiers, then load (resistance, measured in ohms) is known so the wattage rating is fixed.

## INSTALLATION

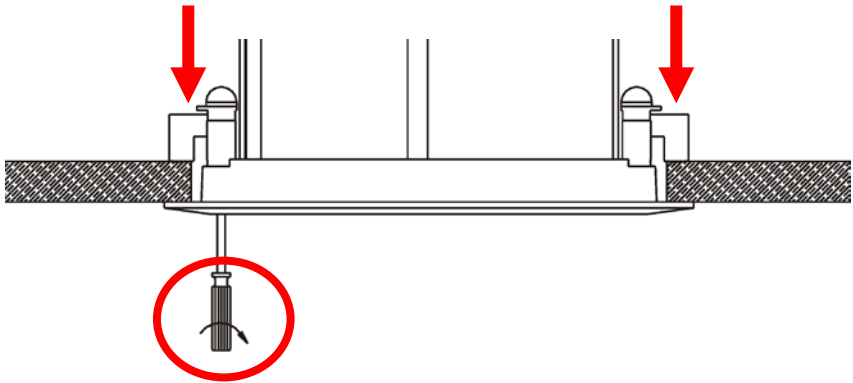
1. REMOVE GRILLES Push clamps up. The tip of the screw will push the grille up and off.



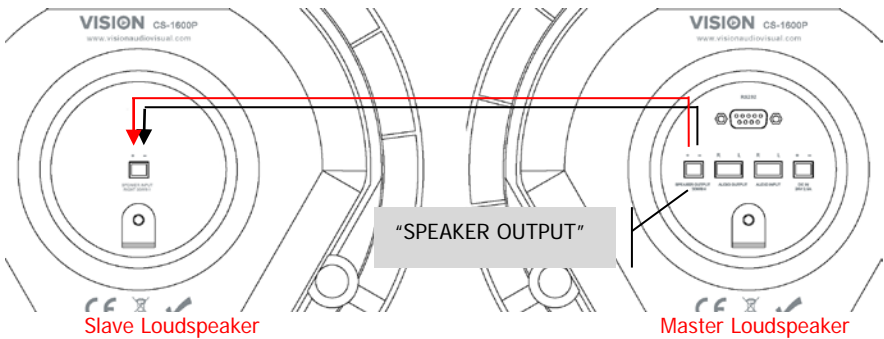
2. CUT HOLE IN CEILING TILE Diameter 222 mm (8.74")
3. FIT LOUDSPEAKERS TO CEILING TILE Fix loudspeaker from the bottom of the ceiling tile and turn clamps out to hold in place.



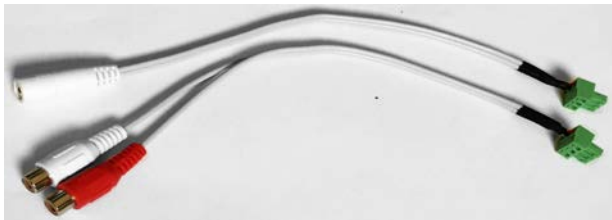
4. **FIX LOUDSPEAKERS TO CEILING TILE** turning clamp screws from the front of loudspeaker. The clamps will turn out and tighten.



5. **CONNECT LOUDSPEAKERS TOGETHER** Use the included speaker cable. If cable provided is not long enough use unshielded speaker cable with gauge of 0.75mm or higher.

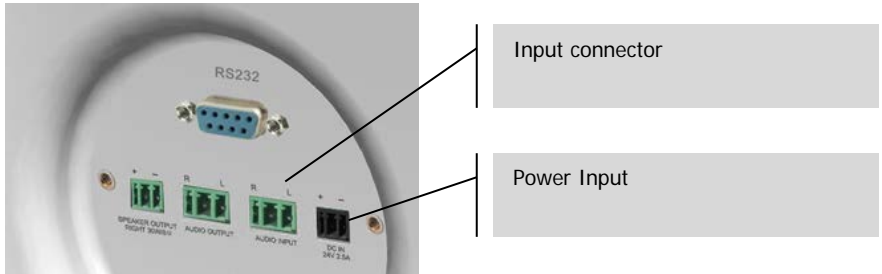


6. **CONNECT INPUT** Plug the phoenix-to-minijack/phono adaptor (shown below) into the input connectors on the rear panel.



Note 1: Smartphones, laptops, DVDs etc connect to this input from their headphone or line-level output jacks.

Note 2: If you will use only the Bluetooth input ignore this step.



- CONNECT POWER Connect power into rear of master loudspeaker.
- \*OPTIONAL\* CONNECT MORE SETS OF CS-1600P If using more than one pair of loudspeakers in the room link them together by connecting the Audio output connector to the audio input on the second pair.



1<sup>st</sup> Master Loudspeaker

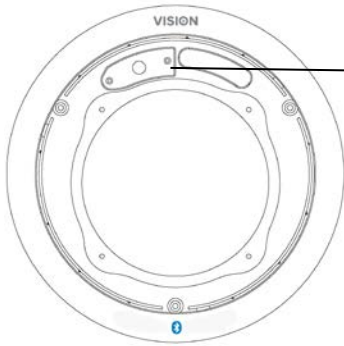
2<sup>nd</sup> Master Loudspeaker

Vision offers Techconnect cable pre-terminated to make this connection:

- 5m (16.4 feet): TC2 5M3.5MM
- 10m (32.8 feet): TC2 10M3.5MM
- 15m (49.2 feet): TC2 15M3.5MM
- 20m (65.6 feet): TC2 20M3.5MM

## STATUS INDICATORS

On the master loudspeaker a solid light indicates that power is on and that an input is selected:

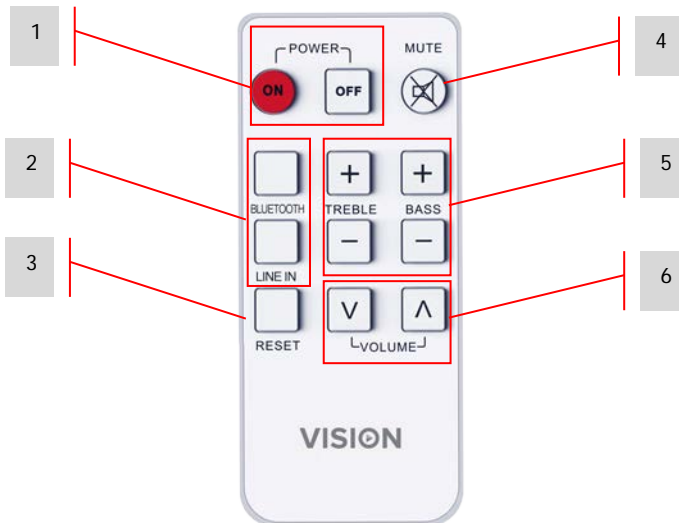


YELLOW: Cabled input selected

BLUE FLASHING: Bluetooth pairing activated  
(cabled input still selected)

BLUE NOT FLASHING: Bluetooth input selected

## REMOTE CONTROL



1. Power On and Off
2. Input Selection
3. Tone Reset
4. Mute
5. Tone Control
6. Volume

## OPERATION

1. **TURN ON/OFF** This product will come on automatically when power is turned on. Or use the remote control to turn on. The product will always resume the last input and volume level.

NOTE: The IR receiver is built into the front of the master loudspeaker. The master loudspeaker has lights on the front panel, the slave does not.

2. **SELECT BLUETOOTH INPUT**

- a. Turn loudspeakers ON or select Bluetooth on remote control. The blue light starts to flash to show it is in pairing mode. At this point the cabled input is still active input.
- b. On your device turn Bluetooth on.
- c. Connect to "VISION SPEAKERS". The yellow light will turn off, and the blue light will be on continuously to indicate the Bluetooth source is now selected.

NOTE 1: If you have connected before it will automatically connect when you turn Bluetooth on.

3. **AUTO-STANDBY** If the amplifier senses no input it will automatically go into standby mode. As soon as you press play on your source device it will automatically switch on again.

If loudspeakers were put into standby manually they will not wake up automatically.



## RS-232 CODES

This product can be controlled with the included remote control or by a professional AV control system using RS-232 codes.

Table 1: Control Codes

HEX Codes	On Remote	Function
65 11 11	ON	Bring out of standby
65 15 15	OFF	Put into standby
65 05 05	MUTE	Mute on/off (Standby activates after 30 minutes of mute)
65 01 01	BLUETOOTH	Input select "Bluetooth"
65 09 09	LINE IN	Input select "Line In"
65 08 08	TREBLE+	Increase treble gain by +1dB
65 0D 0D	TREBLE-	Decrease treble gain by -1dB
65 0C 0C	BASS+	Increase bass gain by +1dB
65 12 12	BASS-	Decrease bass gain by -1Db
65 00 00	RESET	Reset tone
65 07 07	VOL+	volume + (also cancels mute if active)
65 0B 0B	VOL-	volume - (also cancels mute if active)
65 A0 A0		Volume Step 0
65 A1 A1		Volume Step 1
65 A2 A2		Volume Step 2
65 A3 A3		Volume Step 3
65 A4 A4		Volume Step 4
65 A5 A5		Volume Step 5
65 A6 A6		Volume Step 6
65 A7 A7		Volume Step 7
65 A8 A8		Volume Step 8
65 A9 A9		Volume Step 9
65 AA AA		Volume Step 10
65 AB AB		Volume Step 11

65 AC AC		Volume Step 12
65 AD AD		Volume Step 13
65 AE AE		Volume Step 14
65 AF AF		Volume Step 15
65 B0 B0		Volume Step 16
65 B2 B2		Volume Step 18
65 B3 B3		Volume Step 19
65 B4 B4		Volume Step 20
65 B5 B5		Volume Step 21
65 B6 B6		Volume Step 22
65 B7 B7		Volume Step 23
65 B8 B8		Volume Step 24
65 B9 B9		Volume Step 25
65 BA BA		Volume Step 26
65 BB BB		Volume Step 27
65 BC BC		Volume Step 28
B5 B1 B1		Volume Step 17

A command is structured of 65 then the command twice

e.g. turn on: send **65** then send **11** twice.

Each part of the code is preceded by "0x" so the longhand is **0x65 0x11 0x11**

Table 2: Return Codes

To request status send **65 65 65**

Function Name	Function	Range		Remark		
				working	off	standby
STANDBY		0	1	1	0	0
MUTE	Mute status	0	1	0	1	1
BD3490FV_SELECT	Input select	0	2			
BD3490FV_GAIN_GET	Get volume	1	28(1C)	1~28, volume has 28 steps		
BD3490FV_B_GAIN_GET	Get bass gain	1	15(0F)	Bass gain has 15 steps		
BD3490FV_T_GAIN_GET	Get treble gain	1	15(0F)	Treble gain has 15 steps		
BT_BIT	Bluetooth status	0	1	Connected = 1 Disconnected = 0		

Baud rate: 9600K

Stop Bit: 1

Delivery interval >80ms

No check digit

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

## TROUBLESHOOTING

If your system is not operating properly, please refer to the following information.

Problem	Correction
No power light	Check power source and power input cable Check fuse in power cable plug Check battery in remote
Power light on but no sound	Turn the volume up with remote.  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.  Long cables are particularly susceptible to picking up induced noise. Adding Ferrite cores may help to reduce this.  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.  If possible test with another slave loudspeaker.
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 cable immediately.
Device not connecting to Bluetooth	Bluetooth driver implementation on Windows PCs is not consistent. You may need to download drivers from your computer manufacturer's website, and even then you may not be able to make it work.

## SPECIFICATIONS

PRODUCT DIMENSIONS: 260 x 180 mm / 10.2" x 7.1" (diameter x height for each speaker)

CUTOUT SIZE: 222mm / 8.74"

PRODUCT WEIGHT: 4.9 kg / 10.8 lb (per pair)

CONSTRUCTION MATERIAL: Plastic (ABS) + Sheet metal back can

COLOUR: White

TECHNICAL DETAILS:

Amplifier Output: 2 x 30 watts (RMS)

Woofers: 4"

Tweeter: 1.5" Silk

Output Impedance: 8 ohms

Sensitivity: 89 dB (1w/1m)

Frequency response: 80 Hz-20 kHz

Power Consumption:  $\leq 70$  w

MASTER LOUDSPEAKER INPUTS:

Input 1: Phoenix connector

Serial Connector: 9-pin D-sub connector

MASTER LOUDSPEAKER OUTPUTS:

Speaker Output: Phoenix connector

Speaker Output (on master): Phoenix connector

SLAVE LOUDSPEAKER INPUTS:

Speaker input (on slave): Phoenix connector

POWER SUPPLY: 100-240v 50/60Hz AC External Power Supply – 24 volt / 2.5 amp. Laptop-style transformer. Includes 4 x 0.5m figure-8 power cables: UK/EU/US/AU. DC tail length: 4m.

Transformer dimensions: 120 x 56 x 36mm

COMPLIANCE: RoHS, WEEE, CE/EMC, CE/LVD, FCC

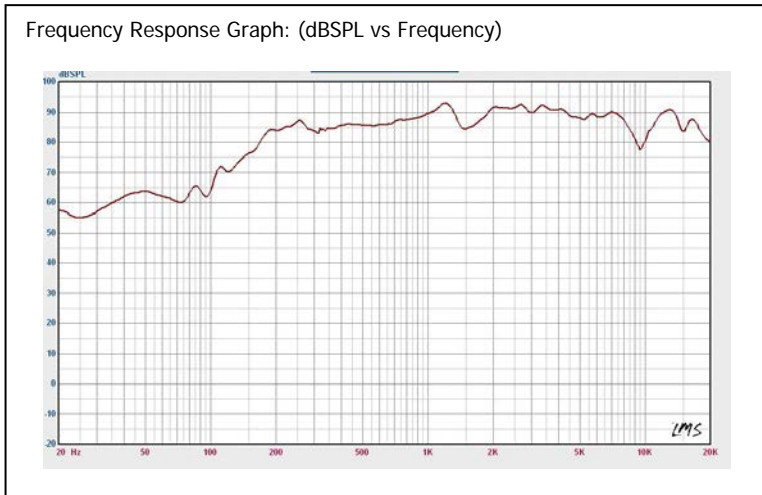
## ACCESSORIES:

1 x Speaker Cable 5 m (16.4') long

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

1 x Female Minijack to Phoenix connector cable

1 x Female 2-Phono to Phoenix connector cable



## **WARRANTY**

This product comes with a 2-year return to base warranty, effective from the date of purchase. This warranty applies only to the original purchaser and is not transferable. For the avoidance of doubt, this will be taken from the information held by the appointed national distributor at the point of sale. 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 liability of the manufacturer and its appointed service company is limited to the cost of repair and/or replacement of the faulty unit under warranty, except for death or injury (EU85/374/EEC). 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 you find you do have a problem with this product, you should contact the AV reseller you purchased this product from. The original purchaser is responsible for shipment of the product to the manufacturer's appointed service centre for repair.

We will endeavour to return repaired units within 5 working days, however this may not always be possible, in which case it will be returned as soon as practicably possible. In line with our WEEE commitments, the manufacturer endeavours to replace the faulty parts of the product rather than replacing the whole unit. This warranty does not protect this product against faults caused by abuse, misuse, incorrect installation, unstable or faulty power input, which might be caused by ignoring the guidelines set out in this manual.

*LEGAL DISCLAIMER: Because we are committed to improving our products, the details above may change without prior warning. This User Manual is published without warranty and any improvements or changes to the User Manual necessitated by typographical errors, inaccuracies of current information, or improvements to programs and/or equipment, may be made at any time and without notice. Such changes will be incorporated into new editions of the User Manual.*