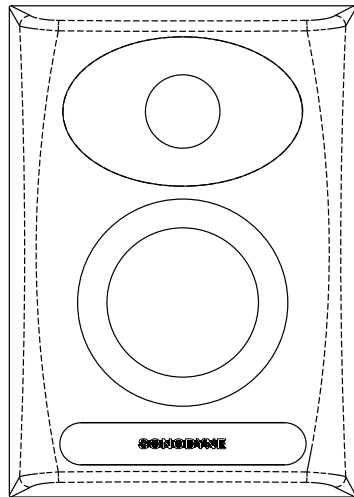
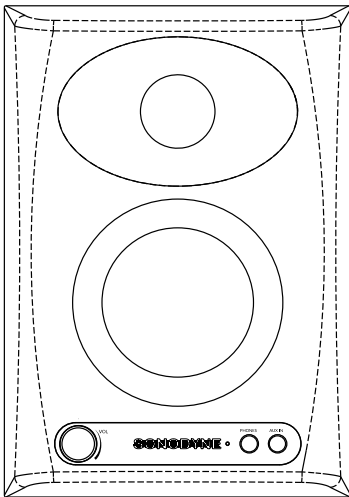


**SONODYNE®**

**PM 4040**

active speaker system | owners manual



[www.sonodyne.com](http://www.sonodyne.com)

**MADE IN INDIA**  
since 1970

## INTRODUCTION

Congratulations on your purchase of the PM 4040 speaker system. The PM 4040 set comprises an active and passive monitor, wired as left speaker and right speaker. It uses high grade transducers - a 4" glass-fiber cone woofer, and a 25mm neodymium magnet dome tweeter with an elliptical waveguide built into the front panel, housed in a bass-reflex type rigid MDF enclosure. These are driven by a highly efficient Class-D amplifier. A choice of balanced and unbalanced inputs on rear panel, an additional unbalanced input through Aux on the front panel, front-mounted headphone output and volume control, provide all the essential features required of such a monitor.

## SAFETY

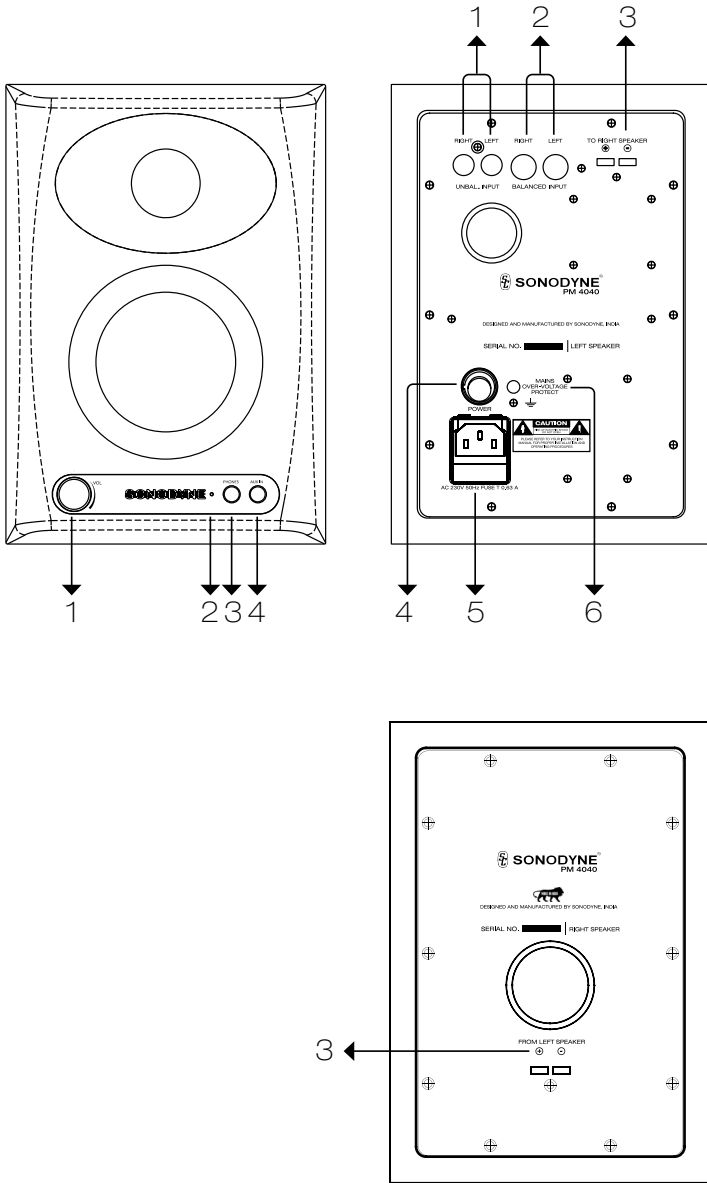
- Please ensure proper earthing.
- Please keep away from moisture.
- Ensure that the speakers are not covered while in use. Restricted airflow at the rear of the unit will cause it to heat up.

## UNPACKING

While removing the units from the carton, please do not hold the speaker's front. The high frequency transducer is located near the top of the cabinet, on the front baffle; you may accidentally damage the transducer.

The best way to safely unpack the monitors is to open the top of the carton, spread the flaps of carton wide apart and turn the entire carton upside down. Then simply pull off the carton. Next remove the packing buffers and protective bag

FIG. 1



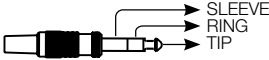
# CONTROLS & FEATURES

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## FRONT PANEL (Refer to Fig. 1 on page 2)

1. VOL. CONTROL  
This controls the level of both the left and right speakers. Use it to set the listening volume
2. POWER INDICATOR  
This lights up when power is ON
3. PHONES  
Connect a pair of 1/8<sup>th</sup> headphones to this socket if you wish to monitor through headphones.  
Note that the internal speakers will get disconnected when you plug in the headphone jack.
4. AUX IN  
This is a 3.5 mm stereo socket for connecting a line-level unbalanced input.

## REAR PANEL (refer to Fig. 1 on page 2)

1. UNBALANCED INPUT  
This is an RCA unbalanced type input. Connect your source to this socket if it has an unbalanced input
2. BALANCED INPUT  
This is a fully balanced TRS input socket.  
Pin connections are TIP-Positive, RING-Negative, SLEEVE-GND  
A diagram of a TRS (Tip-Ring-Sleeve) input socket. It shows a cylindrical connector with three distinct sections. Three arrows point from the right side of the connector to labels: 'SLEEVE' for the outermost section, 'RING' for the middle section, and 'TIP' for the innermost section.
3. SPEAKER TERMINALS  
There are a pair of speaker terminals on both the active speaker (left) and the passive speaker (right). These are to be connected with the speaker cable supplied. Take care to connect the + terminal of one speaker to the + of the other speaker, and vice versa.
4. POWER SWITCH  
This switch is used to turn power on or off
5. AC SOCKET  
This is a fused 3-pin IEC AC receptacle for connecting to a wall outlet with the cable supplied. Ensure that the wall outlet is properly earthed, that is, the earth must be connected to a earth bus-bar which connects to other audio equipment and is not shared by noisy equipment like computers, air-conditioners, lighting appliances etc. The earth connection is also required in the interests of your own safety, should any fault occur. Please check that the wall outlet is capable of providing the current requirement of the product, printed on the back panel near the IEC AC socket.
6. OVER-VOLTAGE PROTECT LED  
The PM 4040 has a protection feature which automatically shuts off the power when the mains voltage crosses an upper limit. In such case, this LED will glow. Normal operation will resume when the over-voltage condition is removed.

## ROOM PLACEMENT

The PM 4040 has a wide variety of placement options. Shown in Fig. 2 is a typical stereo setup for near field monitoring.

The monitors should be angled to directly face the listener. The center of the high frequency transducer should be on-axis with the ear level of the listener. Keep the PM 4040 at least 2" away from rear wall so as not to block the port on rear

## LISTENING DISTANCE

The common listening position at mixing positions is generally 1 to 1.5m for near field applications. The stereo listening angle is more a matter of personal preference, but we recommend the angle should be around 60° as shown in Fig. 2

## MOUNTING OPTIONS

For mounting the speaker on a wall 2 inserts are provided on the base as shown in Fig. 3

FIG.2

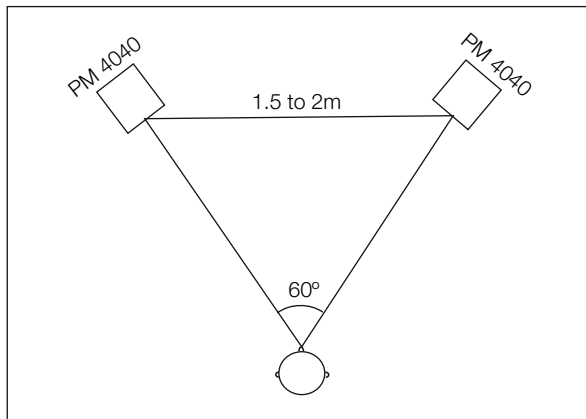
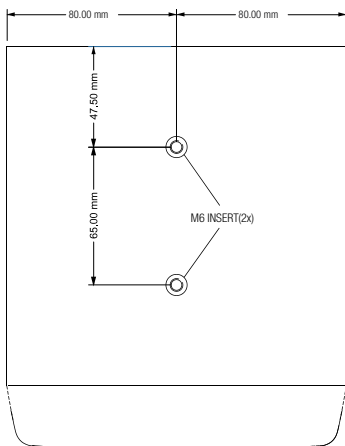


FIG. 3



BOTTOM VIEW

## OPERATION

Connect the speaker terminal on the passive or R speaker to the speaker terminal on the active or L speaker with the cable supplied. Take care to maintain correct polarity

Connect the line level monitor signal from your mixer (or any other source) to the signal input on the PM 4040 using balanced cables (3 pin XLR).

Connect the supplied AC power cord to the IEC socket at rear panel. Keep the power switch at OFF position.

Keep the volume control on PM4040 at minimum Switch on your source.

Switch on PM 4040. The blue power LED will light up.

Adjust the volume to get the desired listening level.

**NOTE** Your PM 4040s achieve their best bass response in a room that is optimized for bass reproduction. Factors such as room shape and volume, absence of acoustical treatment can prove to be a bane for optimal sound reproduction from the PM 4040.

## MAINTENANCE

No user serviceable part is present inside the unit. All maintenance and repair work are to be undertaken by qualified personnel only.

# SPECIFICATIONS

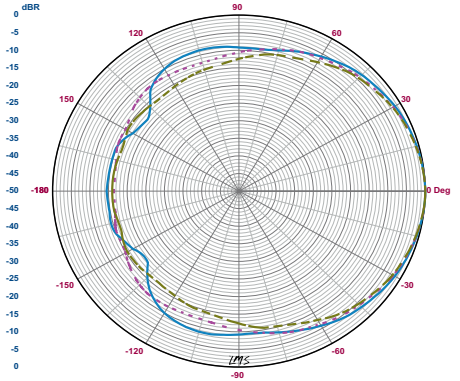
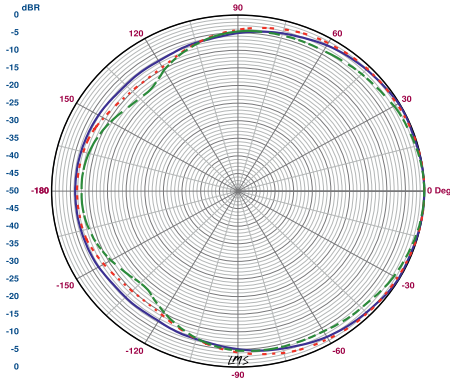
DESCRIPTION	2-way stereo active and passive monitor
TRANSDUCER COMPLEMENTS	LF: 4" glass-fiber cone woofer HF: 25 mm silk-dome neodymium magnet tweeter with elliptical waveguide built into front panel
ENCLOSURE TYPE	Vented, through rear-firing aerodynamic port
ENCLOSURE MATERIAL	MDF
FREQUENCY RESPONSE ( $\pm 3\text{dB}$ )	70Hz ~ 20kHz
MAX SPL, HALF SPACE	109dB peak per pair
CROSSOVER FREQ	2.5kHz
AMPLIFIER TYPE	Class D
OUTPUT POWER RMS	60W
INPUT LEVEL FOR 90dB SPL AT 1M	0dBu
INPUT IMPEDANCE	22k $\Omega$
INPUT	Balanced inputs via TRS socket at rear 2 unbalanced inputs via RCA socket at rear 1/4" phones socket at front
OUTPUT	Snap-type speaker terminal for connecting to passive speaker
CONTROLS & SWITCHES (ACTIVE SP)	
REAR	Power switch
FRONT	Volume control
INDICATOR	Power ON /OFF, on front panel
POWER REQUIREMENT	230V AC, $\pm 10\%$ , 50Hz
PROTECTION	Over current, Overheat, RFI, Switch on/off
FINISH	Black matt
DIMENSIONS (HxWxD)	
PRODUCT	230mm x 160mm x 190mm
SHIPPING	285mm x 400mm x 245mm
NET WEIGHT	
PASSIVE SPEAKER	2.6kg
ACTIVE SPEAKER	3.2kg

*NOTE: Due to continuous improvements, all specifications are subject to change*

# HORIZONTAL POLAR PLOTS

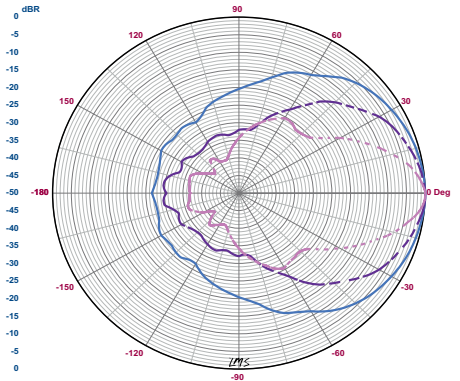
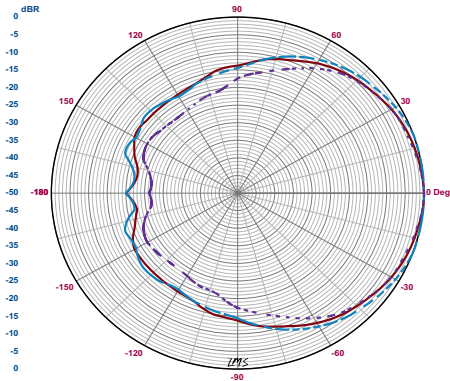
Curve	Freq	BW	Q	DI
—	441.94	195	1.8	2.7
· · · · ·	625.00	203	1.8	2.5
- - - - -	883.88	201	1.8	2.5

CurveF	reqB	WQ	DI	
—	1.25K	119	3.0	4.8
· · · · ·	1.77K	114	3.1	5.0
- - - - -	2.50K	105	3.4	5.4



CurveF	reqB	WQ	DI	
—	3.54K	105	3.4	5.4
- - - - -	5.00K	117	3.1	4.9
· · · · ·	7.07K	100	3.6	5.6

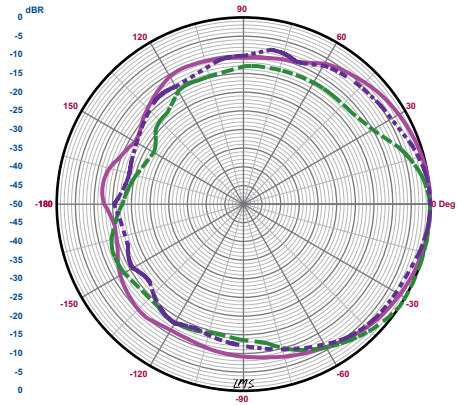
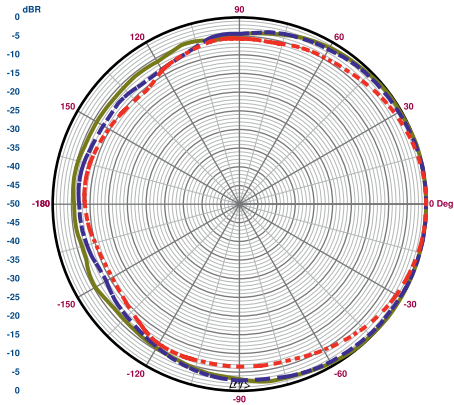
CurveF	reqB	WQ	DI	
—	10.00K	90	4.0	6.0
- - - - -	14.14K	55	6.5	8.1
· · · · ·	20.00K	25	14.2	11.5



# VERTICAL POLAR PLOTS

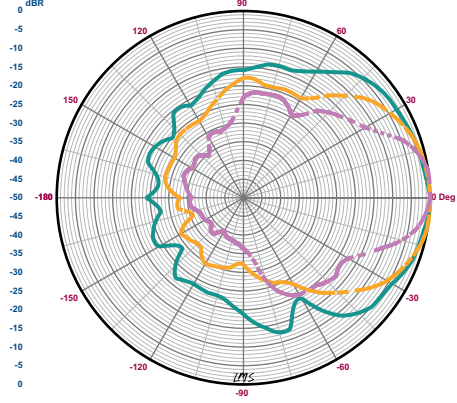
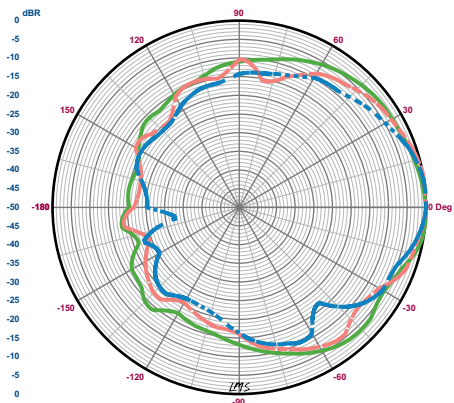
Curve	Freq	BW	Q	DI
—	441.94	262	1.4	1.4
- - -	625.00	224	1.6	2.1
· · · · ·	883.88	171	2.1	3.2

CurveF	reqB	WQ	DI	
—	1.25K	118	3.1	4.8
- - -	1.77K	79	4.5	6.6
· · · · ·	2.50K	106	3.4	5.3

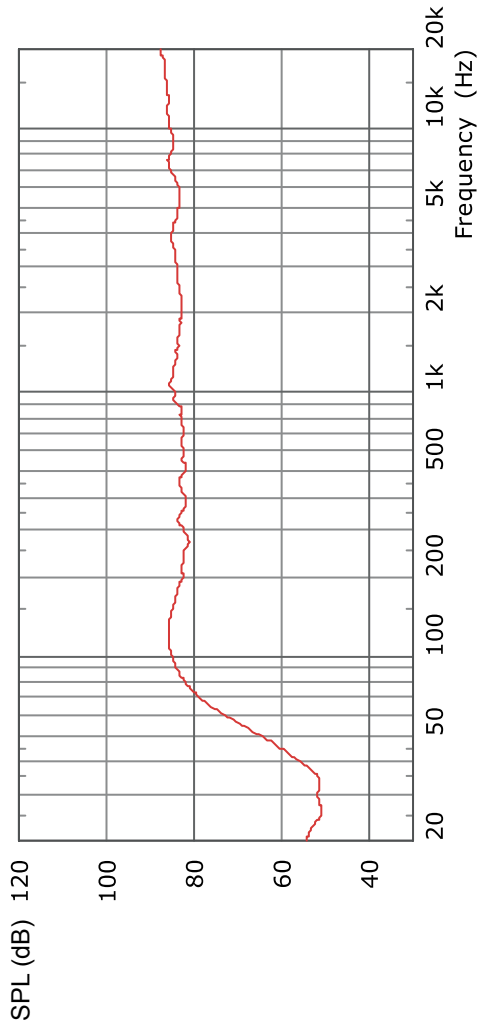


CurveF	reqB	WQ	DI	
—	3.54K	120	3.0	4.8
- - -	5.00K	75	4.8	6.8
· · · · ·	7.07K	66	5.4	7.4

CurveF	reqB	WQ	DI	
—	10.00K	92	3.9	5.9
- - -	14.14K	65	5.5	7.4
· · · · ·	20.00K	35	10.3	10.1



# ON-AXIS FREQUENCY RESPONSE



# WARRANTY INFORMATION

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In substitution of any warranty or condition implied, this equipment is warranted against failure arising through faulty workmanship or material for a period of 24 calendar months from the date of purchase. During this period, subject to the conditions stated here, the manufacturer will replace or repair any defective part free of charge (including parts and labour). This warranty is only given with respect to faulty workmanship and/ or materials and does not cover misuse or consequential damage. Claims under the warranty will be considered only if the product is returned to an authorised SONODYNE Service Centre directly, or through an authorized reseller.

- This warranty is applicable only to the original purchaser when purchase is made directly from SONODYNE or from an authorized SONODYNE reseller. Any claim be accompanied by the original Tax / GST invoice.
- The warranty DOES NOT COVER:
  - a. Damage resulting from incorrect installation or use not in accordance with the operating instruction issued by the manufacturer.
  - b. Consequential damage.
- This warranty will be rendered invalid if any unauthorized alteration, modification or substitution is carried out or if the Serial No. is altered and/ or defaced.
- All equipment for servicing must be sent, carriage paid, to an authorized Service Centre, The Company will accept no responsibility for loss or damage in transit
- If the equipment or any part of it is returned for any cause not covered by the warranty, all costs involved, including charges for inspection and handling will have to be borne by the customer.
- No reseller has the authority to vary the terms of this warranty.

Register your product to activate your warranty:  
<https://sonodyne.com/registerproduct>




Upload a picture or video of your Sonodyne product  
or write about your Sonodyne experience.  
<https://sonodyne.com/review>

If you have anything less than a 5 star experience,  
please contact us at [response@sonodyne.com](mailto:response@sonodyne.com)  
and we will make it right

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