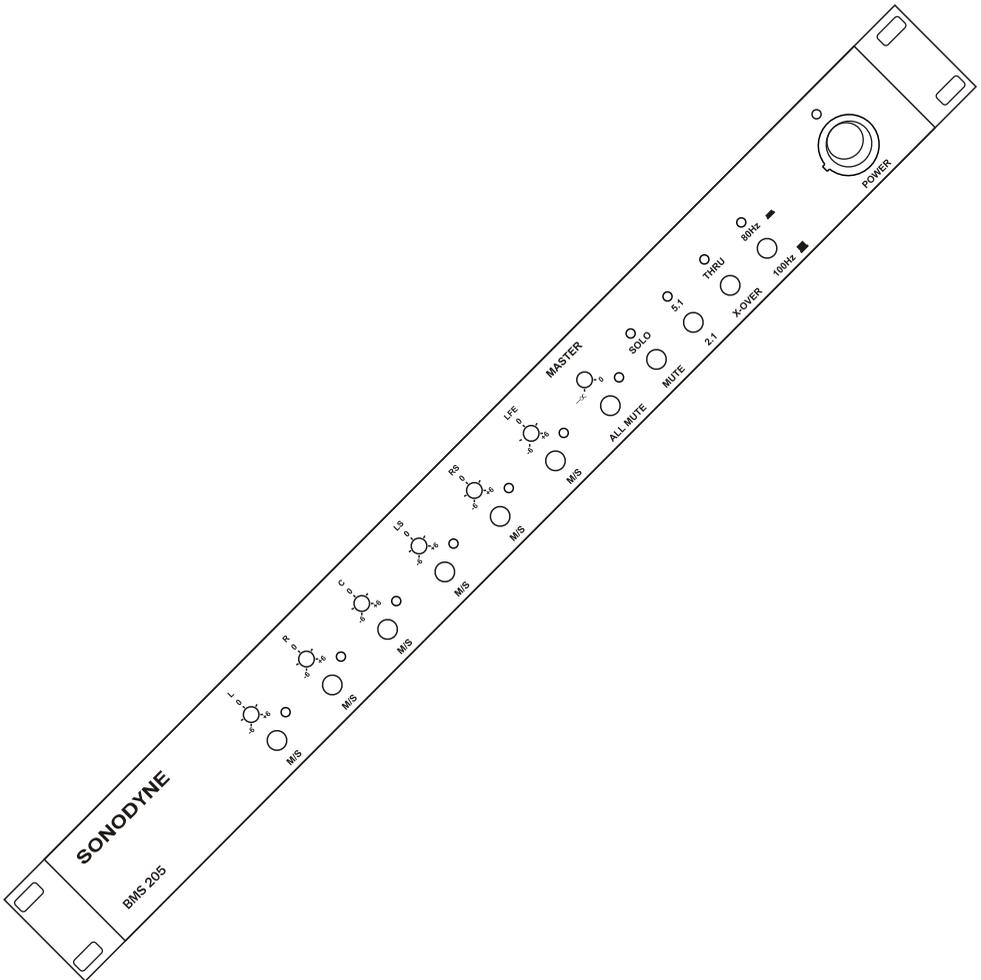


# BMS 205 & BMS 205r

multi-channel bass manager | owners manual



# Statutory Information

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Thank you for selecting the Sonodyne BMS 205 multi-channel bass manager.

Please read through this owner's manual carefully for details on product features and operation. Please unpack with care and retain the packaging for future use.



This symbol warns there is uninsulated (dangerous) voltage in the cabinet of the unit.



This symbol indicates there are important instructions on operation and maintenance.

## IMPORTANT SAFETY INSTRUCTIONS

1. The unit should be connected only to a wall outlet providing the correct mains voltage and frequency as printed on the product.
2. Connect the unit to the mains only with the mains cable supplied with the unit.
3. 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 equipments and is not shared by noisy equipments like computers, air-conditioners, lighting appliances etc. The earth connection must be checked and certified by a qualified electrical engineer.
4. Do not place the unit on an unstable surface that may topple and cause the unit to fall, thereby causing injury to the user or other people.
5. Do not place the unit outdoors where it may be exposed to strong sunlight, rain or moisture. Do not place it near a water body or sprinkler.
6. Do not cover the unit or block the ventilation holes on the top cover which may cause it to heat up.
7. Do not place the unit near heat radiating items like stoves, radiator etc.
8. Do not allow liquid or any chemical to spill on or into the product.
9. Do not allow the mains cord to be trodden or pinched particularly at the wall outlets or at the point of entry of the cord into the unit.
10. Do not open the unit or attempt to service it yourself. There is no user-serviceable part inside. Refer servicing to qualified service personnel only.
11. Replace only with the same type and rating of fuse as printed on the product.
12. Do not overload wall outlets that provide power to this unit.

# Introduction $\Sigma$ Inside the box

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Congratulations on your purchase of the BMS 205, multichannel bass manager. This unique rack mount device with its wired remote, the BMS 205r, is an excellent solution to monitor in dual or multichannel modes, with or without a dedicated LFE unit (subwoofer).

Inside the box please find:

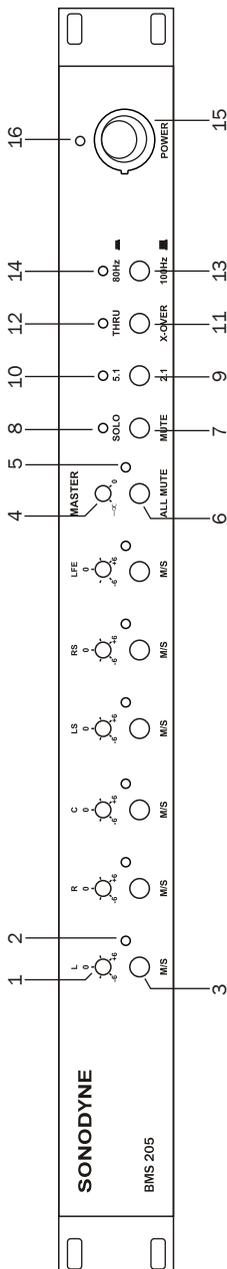
**BMS 205:**

- $\Sigma$  1 x BMS 205 bass manager
- $\Sigma$  1 x power cord

**BMS 205r:**

- $\Sigma$  1 x BMS 205r wired remote control
- $\Sigma$  1 x desktop pad

# Fig 1: Front View



# Controls & Switches: Front Panel

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Please refer to Fig 1. (Page 3)

- 1) GAIN TRIM: This recessed control allows for each channel level (input) to be trimmed from -6 to +6 dB with centre position at 0 dB
- 2) MUTE/ SOLO LED: When this glows red, it is an indication that the Mute/Solo Option has been selected for that channel; please see item 7 for more details.
- 3) MUTE/ SOLO SWITCH: This will Mute / Solo the specific channel depending on whether the Mute / Solo mode has been selected; please see item 7 for more details
- 4) MASTER: This is a master level control for ALL channels; and varies from minimum to 0 dB.
- 5) ALL MUTE LED: This, when red, indicates that all channels have been muted
- 6) ALL MUTE SWITCH: Press this to MUTE all channels; Irrespective of the position of the MUTE/SOLO switch ALL MUTE will mute all channels.
- 7) MUTE / SOLO global mode switch: The BMS 205 offers muting / soloing of each channel; Please select the global mode that you desire and the independent channel M/S switch (item 3) shall function accordingly.
- 8) SOLO LED: This, when red, indicates that the SOLO global mode has been selected
- 9) 2.1 / 5.1 MODE SWITCH: The BMS 205 outputs will derive and process the signal from its inputs in a fashion as described in the table in Fig. 3 (page 7). This switch allows you to select the desired mode of operation
- 10) 5.1 MODE LED: This, when red, indicates that the 5.1 operation mode has been selected
- 11) X-OVER/ THRU MODE SWITCH: The user can choose either BMS configuration using this switch. Please refer to the Table in Figure 3 for the resulting effects of both modes, which will then allow you to use this in conjunction with the the 2.1 / 5.1 mode switch
- 12) THRU MODE LED: This, when red, indicates that the THRU mode has been selected.
- 13) 100 Hz / 80 Hz mode switch: You may choose one of these two bass management frequencies that will effect the LPF of the LFE channel and the HPF of the other channels. This will be effective if the XOVER mode has been selected
- 14) 80 Hz LED: This indicates that the bass management frequency selected is 80 Hz
- 15) MAINS POWER ON SWITCH: Please switch on the BMS 205 first and then switch on the monitors, and the reverse while switching off.
- 16) MAINS POWER ON INDICATOR LED



# Controls & Switches: Rear Panel

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Please refer to Fig. 2 (Page 5)

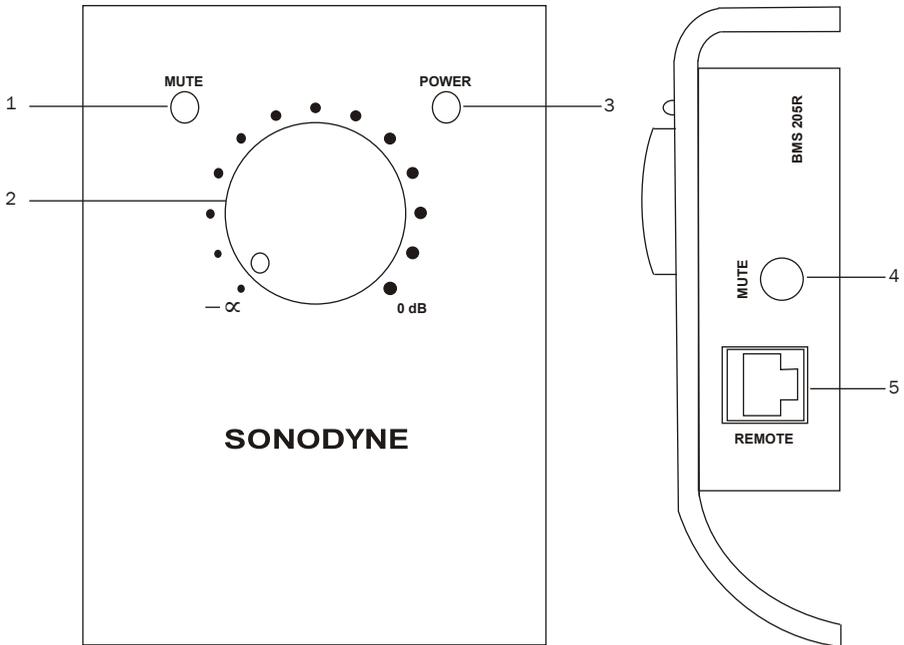
- 17) MAINS POWER SOCKET: This is available in either 115 or 230 Volt, specific to markets
- 18) MAINS FUSE COMPARTMENT: rating is Schurter make 20mm, 0.125A, Slow blow ( 0034.3108)FST type for 230V unit and Schurter make 20mm, 0.250A, Slow blow (0034.3111) FST. Please replace with same type and value.
- 19) RJ45 SOCKET: This is to connect the BMS 205r to the BMS 205. Use RJ45 cable with "Straight Through" configuration i.e. 1:1 connections on both ends.
- 20) OUTPUTS: Please connect, using balanced XLRs, the active speakers / power amps, to channels as labeled. The XLR pin configuration should be: Pin 1 = GND, Pin 2 = Hot (+) , Pin 3 = Cold (-)
- 21) GND LIFT SWITCH: This can be a useful tool to get rid of unwanted buzz/ hum created due to earthing / ground loop issues. Please experiment for best results
- 22) INPUTS: Please connect, using balanced XLRs, the 6 inputs from a decoder / mixer channels as labeled. The XLR pin configuration should be: Pin 1 = GND, Pin 2 = Hot (+) , Pin 3 = Cold (-)

## Fig 3: Configurations

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MODE	BMS SETTING	L OUT	R OUT	C OUT	LS OUT	RS OUT	LFE OUT
2.1	THRU	L	R	-	-	-	SUMMED MONO L+R
2.1	X-OVER	L WITH HPF	R WITH HPF	-	-	-	SUMMED MONO WITH LPF
5.1	THRU	L	R	C	LS	RS	LFE
5.1	X-OVER	L WITH HPF	R WITH HPF	C WITH HPF	LS WITH HPF	RS WITH HPF	LFE + SUMMED MONO {L+R+LS+RS+C} WITH LPF)

## FIG. 4: BMS 205r $\Sigma$ Features



- 1) MUTE LED: this will glow when the master mute has been selected either from the main console or from the MUTE switch on the remote (please see item 4)
- 2) MASTER: This is a master level control for ALL channels and varies from mute to 0 dB.
- 3) POWER on LED: With the connection established to the BMS 205, this glows green when the BMS 205 is ON
- 4) MUTE switch: Press to MUTE
- 5) RJ45 socket for connection to main unit. Use RJ45 cable with "Straight Through" configuration i.e. 1:1 connections on both the ends.

# Specifications: BMS 205

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INPUT CONNECTIONS	6 x XLR F (lockable)
OUTPUT CONNECTIONS	6 x XLR M
INPUT SIGNAL-SENSITIVITY	5.1 mode - (0 dBu) rated 2.1 mode - (0 dBu) rated
OUTPUT SIGNAL LEVEL	5.1 mode - (0 dBu) rated 2.1 mode - (0 dBu) rated
FREQUENCY RESPONSE	Thru mode - 20 Hz ~ 20 kHz (-3 dB) X-over mode - 80 and 100 Hz (LPF & HPF)
THD	< 0.08%
S/N RATIO	> 70 dB
CROSSTALK	> 70 dB
DIM. (H x W x D)	44 x 482 x 165 mm
NET WEIGHT	2.75 Kg
POWER SOURCE	230V AC, 50Hz or (115V AC, 60Hz optional - Factory fitted)

# Specifications: BMS 205r

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POWER INPUT	Via CAT5 cable from BMS 205
INPUT CONNECTIONS	CAT 5 (Straight Thru) cable between BMS 205 and BMS 205r
FEATURES	a) Master volume control b) Power ON LED indication c) Master Mute - ON LED indication d) Desk top cushion pad provided
MECHANICAL CONSTRUCTION	Table top aluminum housing with a desk top cushion pad
DIMENSIONS (H x W x D)	42 x 140 x 88 mm
NET WEIGHT	0.375 Kg



CELEBRATING 40 YEARS OF AUDIO INNOVATION



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