




Four-channel Microphone Mixer

! IMPORTANT SAFETY INSTRUCTIONS !

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12.  USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.




This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

! CONSIGNES DE SÉCURITÉ IMPORTANTES !

1. LIRE ces consignes.
2. CONSERVER ces consignes.
3. OBSERVER tous les avertissements.
4. SUIVRE toutes les consignes.
5. NE PAS utiliser cet appareil à proximité de l'eau.
6. NETTOYER UNIQUEMENT avec un chiffon sec.
7. NE PAS obstruer les ouvertures de ventilation. Installer en respectant les consignes du fabricant.
8. Ne pas installer à proximité d'une source de chaleur telle qu'un radiateur, une bouche de chaleur, un poêle ou d'autres appareils (dont les amplificateurs) produisant de la chaleur.
9. NE PAS détériorer la sécurité de la fiche polarisée ou de la fiche de terre. Une fiche polarisée comporte deux lames dont l'une est plus large que l'autre. Une fiche de terre comporte deux lames et une troisième broche de mise à la terre. La lame la plus large ou la troisième broche assure la sécurité de l'utilisateur. Si la fiche fournie ne s'adapte pas à la prise électrique, demander à un électricien de remplacer la prise hors normes.
10. PROTÉGER le cordon d'alimentation afin que personne ne marche dessus et que rien ne le pince, en particulier au niveau des fiches, des prises de courant et du point de sortie de l'appareil.
11. UTILISER UNIQUEMENT les accessoires spécifiés par le fabricant.
12.  UTILISER uniquement avec un chariot, un pied, un trépied, un support ou une table spécifié par le fabricant ou vendu avec l'appareil. Si un chariot est utilisé, déplacer l'ensemble chariot-appareil avec précaution afin de ne pas le renverser, ce qui pourrait entraîner des blessures.
13. DÉBRANCHER l'appareil pendant les orages ou quand il ne sera pas utilisé pendant longtemps.
14. CONFIER toute réparation à du personnel qualifié. Des réparations sont nécessaires si l'appareil est endommagé de quelque façon que ce soit, comme par exemple : cordon ou prise d'alimentation endommagé, liquide renversé ou objet tombé à l'intérieur de l'appareil, exposition de l'appareil à la pluie ou à l'humidité, appareil qui ne marche pas normalement ou que l'on a fait tomber.
15. NE PAS exposer cet appareil aux égouttements et aux éclaboussements. NE PAS poser des objets contenant de l'eau, comme des vases, sur l'appareil.




Ce symbole indique que la documentation fournie avec l'appareil contient des instructions d'utilisation et d'entretien importantes.



Ce symbole indique la présence d'une tension dangereuse dans l'appareil constituant un risque de choc électrique.

! WICHTIGE SICHERHEITSHINWEISE !

1. Diese Hinweise LESEN.
2. Diese Hinweise AUFHEBEN.
3. Alle Warnhinweise BEACHTEN.
4. Alle Anweisungen BEFOLGEN.
5. Dieses Gerät NICHT in der Nähe von Wasser verwenden.
6. NUR mit einem sauberen Tuch REINIGEN.
7. KEINE Lüftungsöffnungen verdecken. Gemäß den Anweisungen des Herstellers einbauen.
8. Nicht in der Nähe von Wärmequellen, wie Heizkörpern, Raumheizungen, Herden oder anderen Geräten (einschließlich Verstärkern) installieren, die Wärme erzeugen.
9. Die Schutzfunktion des Schukosteckers NICHT umgehen. Bei Steckern für die USA gibt es polarisierte Stecker, bei denen ein Leiter breiter als der andere ist; US-Stecker mit Erdung verfügen über einen dritten Schutzleiter. Bei diesen Steckerausführungen dient der breitere Leiter bzw. der Schutzleiter Ihrer Sicherheit. Wenn der mitgelieferte Stecker nicht in die Steckdose passt, einen Elektriker mit dem Austauschen der veralteten Steckdose beauftragen.
10. VERHINDERN, dass das Netzkabel gequetscht oder darauf getreten wird, insbesondere im Bereich der Stecker, Netzsteckdosen und an der Austrittsstelle vom Gerät.
11. NUR das vom Hersteller angegebene Zubehör und entsprechende Zusatzgeräte verwenden.
12.  NUR in Verbindung mit einem vom Hersteller angegebenen oder mit dem Gerät verkauften Transportwagen, Stand, Stativ, Träger oder Tisch verwenden. Wenn ein Transportwagen verwendet wird, beim Verschieben der Transportwagen-Geräte-Einheit vorsichtig vorgehen, um Verletzungen durch Umkippen
13. Das Netzkabel dieses Geräts während Gewittern oder bei längeren Stillstandszeiten aus der Steckdose ABZIEHEN.
14. Alle Reparatur- und Wartungsarbeiten von qualifiziertem Kundendienstpersonal DURCHFÜHREN LASSEN. Kundendienst ist erforderlich, wenn das Gerät auf irgendwelche Weise beschädigt wurde, z.B. wenn das Netzkabel oder der Netzstecker beschädigt wurden, wenn Flüssigkeiten in das Gerät verschüttet wurden oder Fremdkörper hineinfelen, wenn das Gerät Regen oder Feuchtigkeit ausgesetzt war, nicht normal funktioniert oder fallen gelassen wurde.
15. Dieses Gerät vor Tropf- und Spritzwasser SCHÜTZEN. KEINE mit Wasser gefüllten Gegenstände wie zum Beispiel Vasen auf das Gerät STELLEN.




Dieses Symbol zeigt an, dass gefährliche Spannungswerte, die ein Stromschlagrisiko darstellen, innerhalb dieses Geräts auftreten



Dieses Symbol zeigt an, dass das diesem Gerät beiliegende Handbuch wichtige Betriebs- und Wartungsanweisungen enthält.

! INSTRUCCIONES IMPORTANTES DE SEGURIDAD !

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. LEA estas instrucciones. 2. CONSERVE estas instrucciones. 3. PRESTE ATENCION a todas las advertencias. 4. SIGA todas las instrucciones. 5. NO utilice este aparato cerca del agua. 6. LIMPIESE UNICAMENTE con un trapo seco. 7. NO obstruya ninguna de las aberturas de ventilación. Instálese según lo indicado en las instrucciones del fabricante. 8. No instale el aparato cerca de fuentes de calor tales como radiadores, registros de calefacción, estufas u otros aparatos (incluyendo amplificadores) que produzcan calor. 9. NO anule la función de seguridad del enchufe polarizado o con clavija de puesta a tierra. Un enchufe polarizado tiene dos patas, una más ancha que la otra. Un enchufe con puesta a tierra tiene dos patas y una tercera clavija con puesta a tierra. La pata más ancha o la tercera clavija se proporciona para su seguridad. Si el tomacorriente no es del tipo apropiado para el enchufe, consulte a un electricista para que sustituya el tomacorriente de estilo anticuado. | <ol style="list-style-type: none"> 10. PROTEJA el cable eléctrico para evitar que personas lo pisen o estrujen, particularmente en sus enchufes, en los tomacorrientes y en el punto en el cual sale del aparato. 11. UTILICE únicamente los accesorios especificados por el fabricante. 12.  UTILICESE únicamente con un carro, pedestal, trípode, escuadra o mesa del tipo especificado por el fabricante o vendido con el aparato. Si se usa un carro, el mismo debe moverse con sumo cuidado para evitar que se vuelque con el aparato. 13. DESENCHUFE el aparato durante las tormentas eléctricas, o si no va a ser utilizado por un lapso prolongado. 14. TODA reparación debe ser llevada a cabo por técnicos calificados. El aparato requiere reparación si ha sufrido cualquier tipo de daño, incluyendo los daños al cordón o enchufe eléctrico, si se derrama líquido sobre el aparato o si caen objetos en su interior, si ha sido expuesto a la lluvia o la humedad, si no funciona de modo normal, o si se ha caído. 15. NO exponga este aparato a chorros o salpicaduras de líquidos. NO coloque objetos llenos con líquido, tales como floreros, sobre el aparato. |
|--|---|




Este símbolo indica que la unidad contiene niveles de voltaje peligrosos que representan un riesgo de choques eléctricos.



Este símbolo indica que la literatura que acompaña a esta unidad contiene instrucciones importantes de funcionamiento y mantenimiento.

! ISTRUZIONI IMPORTANTI PER LA SICUREZZA !

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. EGGETE queste istruzioni. 2. CONSERVATE queste istruzioni. 3. OSSERVATE tutte le avvertenze. 4. SEGUITE tutte le istruzioni. 5. NON usate questo apparecchio vicino all'acqua. 6. PULITE l'apparecchio SOLO con un panno asciutto. 7. NON ostruite alcuna apertura per l'aria di raffreddamento. Installate l'apparecchio seguendo le istruzioni del costruttore. 8. NON installate l'apparecchio accanto a fonti di calore quali radiatori, aperture per l'efflusso di aria calda, forni o altri apparecchi (amplificatori inclusi) che generino calore. 9. NON modificate la spina polarizzata o con spinotto di protezione. Una spina polarizzata è dotata di due lame, una più ampia dell'altra. Una spina con spinotto è dotata di due lame e di un terzo polo di messa a terra. La lama più ampia ed il terzo polo hanno lo scopo di tutelare la vostra incolumità. Se la spina in dotazione non si adatta alla presa di corrente, rivolgetevi ad un elettricista per far eseguire le modifiche necessarie. | <ol style="list-style-type: none"> 10. EVITATE di calpestare il cavo di alimentazione o di comprimerlo, specie in corrispondenza di spine, prese di corrente e punto di uscita dall'apparecchio. 11. USATE ESCLUSIVAMENTE i dispositivi di collegamento e gli accessori specificati dal costruttore. 12.  USATE l'apparecchio solo con carrelli, sostegni, treppiedi, staffe o tavoli specificati dal costruttore o venduti insieme all'apparecchio stesso. Se usate un carrello, fate attenzione durante gli spostamenti per evitare infortuni causati da un eventuale ribaltamento del carrello stesso. 13. SCOLLEGATE l'apparecchio dalla presa di corrente in caso di temporali o di non utilizzo per un lungo periodo. 14. RIVOLGETEVI a personale di assistenza qualificato per qualsiasi intervento. È necessario intervenire sull'apparecchio ogniqualvolta sia stato danneggiato, in qualsiasi modo, ad esempio in caso di danneggiamento di spina o cavo di alimentazione, versamento di liquido sull'apparecchio o caduta di oggetti su di esso, esplosione dell'apparecchio a pioggia o umidità, funzionamento irregolare o caduta. 15. NON esponetelo a sgocciolamenti o spruzzi. NON appoggiate sull'apparecchio oggetti pieni di liquidi, ad esempio vasi da fiori. |
|--|---|




Questo simbolo indica la presenza di alta tensione all'interno dell'apparecchio, che comporta il rischio di folgorazione.



Questo simbolo indica la presenza di istruzioni importanti per l'uso e la manutenzione nella documentazione in dotazione all'apparecchio.

! 安全のための重要注意事項 !

- | | |
|---|---|
| <ol style="list-style-type: none"> 1 この説明書をお読み下さい。 2 この説明書を保管しておいて下さい。 3 警告事項すべてに留意して下さい。 4 すべての指示に従って下さい。 5 この製品は水の近くで使用しないで下さい。 6 掃除は、必ず乾いた布で拭いて下さい。 7 通風口を塞がないようにして下さい。使用説明書に従って設置して下さい。 8 ラジエーターや暖房送風口、ストーブ、その他、熱を発生する機器（アンブなど）の近くには設置しないで下さい。 9 有極プラグやアース付きプラグは安全のために用いられています。無効にしないようにして下さい。有極プラグは、2本のブレードのうち一方が幅広になっています。アース付きプラグは、2本のブレードの他に、3本目のアースの棒がついています。幅広のブレードや3本目の棒は、安全のためにあるものです。これらのプラグがコンセントの差し込み口に合わない場合は、電気工事業者に相談し、コンセントを交換してもらってください。 | <ol style="list-style-type: none"> 10 電源コードは、特にプラグ差し込み部分、延長コード、機器から出ている部分において、引っかかって抜けたり挟まれたりしないように保護して下さい。 11 アタッチメントや付属品は、必ずメーカー指定のものをご利用下さい。 12.  カートやスタンド、三脚、ブラケット、テーブル等は、メーカー指定のものか、この装置用に販売されているものを必ずご利用下さい。カートを使用する場合は、装置を載せて移動する際、怪我をしないよう 13 雷を伴う嵐の際、または長期間使用しない場合は、プラグをコンセントから抜いて下さい。 14 整備の際は、資格のある整備担当者に必ずご相談下さい。電源コードやプラグの損傷、液体や異物が装置内に入り込んだ場合、装置が雨や湿気に曝された場合、正常に作動しない場合、装置を落とした場合など、装置が何らかの状態に損傷した場合は、整備が必要です。 15 装置に水滴やしぶきが付かないようにしてください。装置の上に花瓶などの液体の入った物を置かないでください。 |
|---|---|



この記号は、この装置内に感電の危険性のある高電圧があることを示します。



この記号は、重要な操作・メンテナンスの説明が装置添付の文書に記載されていることを示します。

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SHURE SCM268

DESCRIPTION

The Shure Model SCM268 is a transformer-balanced, four-channel microphone mixer. Its simple, compact design delivers superior performance and exceptional sound quality with low noise and a flat frequency response.

Versatile in all types of applications, the SCM268 integrates transformer-balanced XLR inputs, a switchable microphone/line level transformer-balanced XLR output, phono jack inputs and output, phantom power,

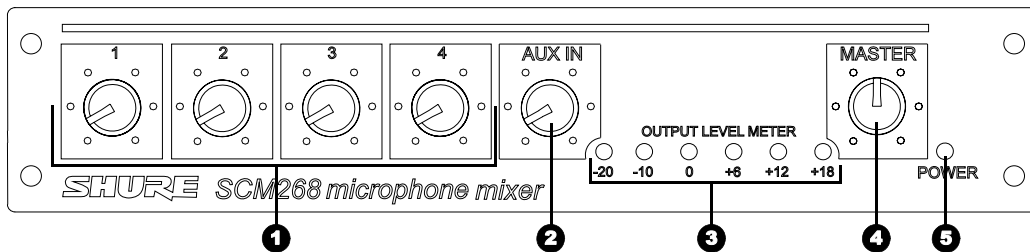
and an auxiliary input channel. It can function as a primary or add-on mixer for sound reinforcement, recording, broadcast, or audio-visual presentation systems.

With the supplied hardware, the mixer's half-rack chassis mounts securely in single or dual rackmount installations. For fixed installations, the SCM268 can be fastened on or below a shelf, counter, or tabletop.

FEATURES

- Four transformer-balanced microphone inputs
- Transformer-balanced output-switchable mic/line level
- Five -10 dB line-level inputs
- Six-segment LED output level meter
- Built-in 12-volt phantom power
- Internal power transformer
- Built-in low-cut filter on microphone inputs (below 80 Hz)

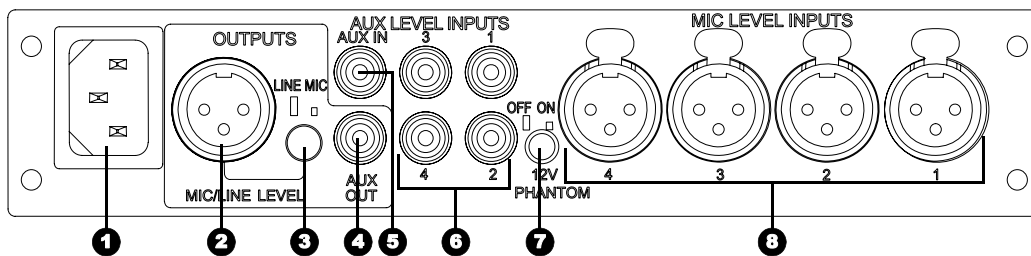
FRONT PANEL



- 1 Gain Controls (1-4).** Adjusts gain for microphone level inputs and auxiliary level inputs 1-4.
- 2 Auxiliary Channel Gain Control (AUX IN).** Adjusts the auxiliary channel input gain.
- 3 Output Meter.** LED meter indicates peak output signal level.
- 4 Master Gain Control (MASTER).** Adjusts overall output level.
- 5 Power Indicator (POWER).** This LED illuminates when the unit is plugged in and receiving power.

NOTE: The SCM268 does not have a power switch. To turn the unit off, unplug the power cord or use an external power strip with a switch. However, it can remain plugged in as it uses very little power when idle.

REAR PANEL



- 1 Power Connector.** Accepts 100-120 Vac (SCM268) or 220-240 Vac (SCM268E).
- 2 Output Connector (MIC/LINE OUT).** Transformer-balanced XLR output connector. Switchable between line and microphone level.
- 3 Output Level Switch (MIC/LINE OUT).** Recessed switch changes the signal level of the XLR output connector:
In = Microphone Level
Out = Line Level
- 4 Auxiliary Output Connector (AUX OUT).** Phono jack feeds consumer-level audio equipment. Not affected by MIC/LINE switch.
- 5 Auxiliary Level Inputs (AUX LEVEL INPUTS, 1-4).** Phono jacks connect to consumer-level audio sources.
- 6 Auxiliary Input Channel (AUX IN).** A dedicated auxiliary-level input for the auxiliary channel.
- 7 Phantom Power Switch (12V PHANTOM).** Recessed switch turns on phantom power for microphone inputs 1-4.
- 8 Microphone Level Inputs (MIC LEVEL INPUTS).** Transformer-balanced, microphone-level XLR inputs.

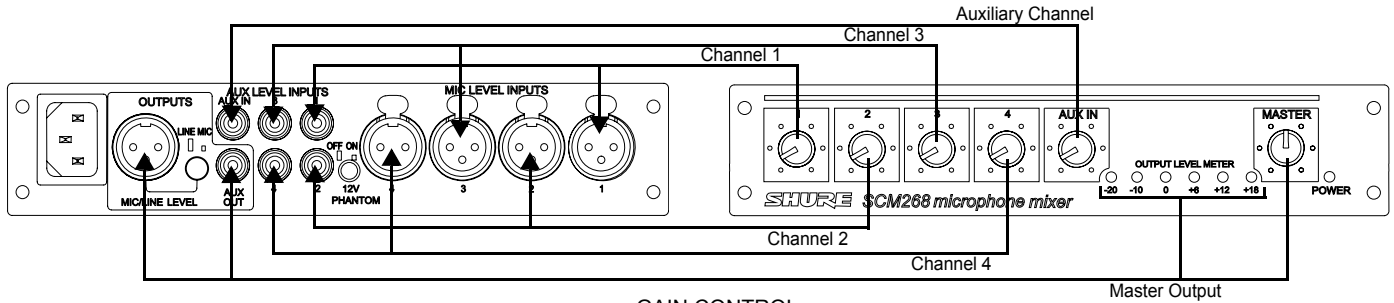
GAIN CONTROL

INPUT GAIN

The gain control knobs 1-4, located on the front panel, adjust the gain for both microphone and auxiliary-level inputs of channels 1-4 (see Figure 1). For example, the channel 1 gain control is used for both the channel 1 microphone input (MIC LEVEL INPUT 1) **and** the channel 1 auxiliary level input (AUX LEVEL INPUT 1). The auxiliary gain control knob (AUX IN) affects only the auxiliary input (AUX IN).

OUTPUT GAIN

The master output gain control knob (MASTER) adjusts gain to both the XLR balanced output (MIC/LINE LEVEL) and the auxiliary level output (AUX LEVEL).

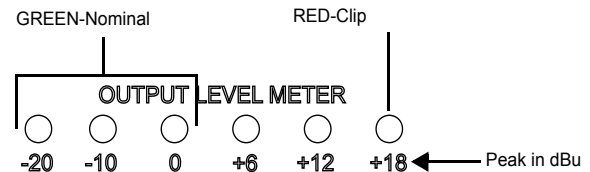


GAIN CONTROL
FIGURE 1

OUTPUT LEVEL METER

The six LEDs on the front panel labeled OUTPUT LEVEL METER illuminate to reflect the peak level of the mixed output signal from the SCM268 (in reference to balanced line output) in dBu (0 dBu = 0.775 V).

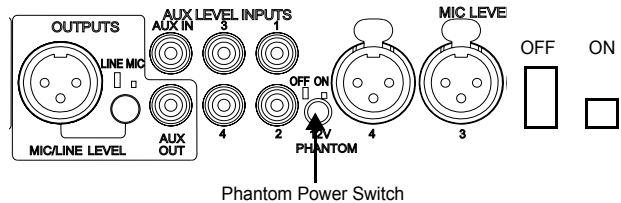
Use the master gain control (MASTER) to adjust peak levels, as indicated by the LEDs. The red LED illuminates when the output is 2 dB below clipping.



PHANTOM POWER

When the phantom power switch on the back panel is on (12V PHANTOM-ON), the SCM268 provides 12 V of phantom power to each XLR microphone input. The switch is recessed to prevent accidental engagement. Most *condenser* microphones require phantom power. Use it when connecting these types of microphones to the SCM268.

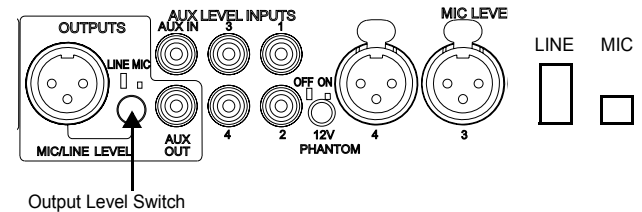
NOTE: Phantom power does not affect the operation of balanced dynamic microphones. With phantom power on, they can be connected to the SCM268 in combination with condenser microphones that do use it.



OUTPUT LEVEL SWITCH

The output level switch on the back panel (MIC/LINE OUT) sets the level of the balanced XLR output. When set to MIC, it reduces the output by about 50 dB. Set the switch so that the output level matches the input level of the device to which you are connecting the SCM268. The switch is recessed to prevent accidental engagement.

NOTE: The output level switch does not affect the auxiliary output (AUX OUT) level.

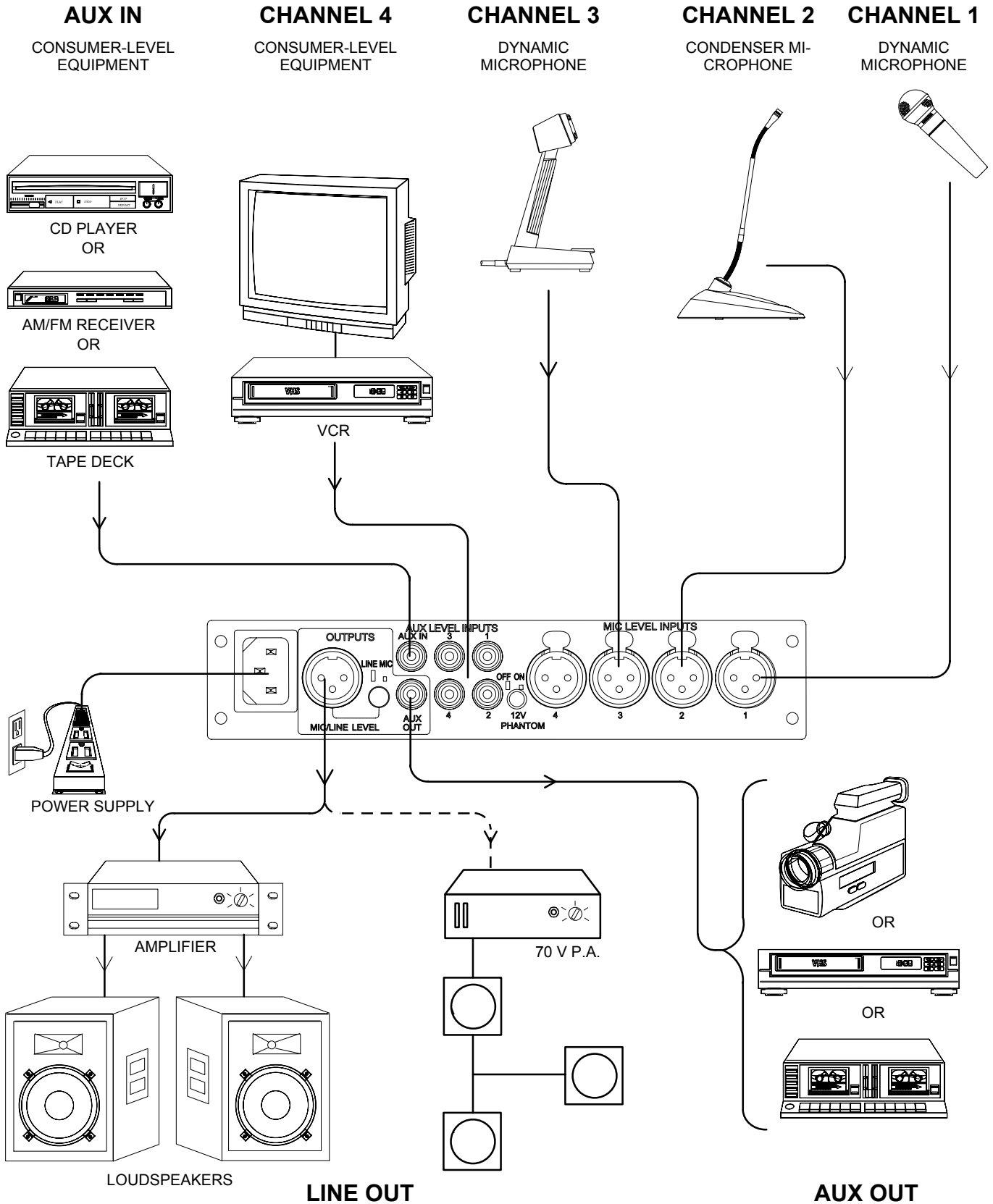


CONNECTIONS

The following diagram illustrates a few of the many types of connections possible with the SCM268. Note that nothing is connected to the channel 4 microphone input (MIC LEVEL INPUT 4). This is because channel 4 is being used for the consumer-level equipment connected to

the channel 4 auxiliary level input (AUX LEVEL INPUT 4). Connecting both auxiliary level and microphone level inputs to a single channel is not recommended because the SCM268 would not be able to independently mix the two sources.

ENGLISH



INSTALLATION

ENGLISH

SUPPLIED HARDWARE

- **4 rubber feet.** For stand-alone installation.
- **1 rackmount bracket, long.** For half-rack (single unit) installations.
- **1 rackmount bracket, short.** For half-rack (single) or dual-mount installations.
- **2 straddle brackets.** For dual-mount or fixed installations.
- **12 bracket screws, 1/4 in. (6 mm).** For securing the brackets to the chassis.
- **4 rackmount screws, 1 in. (2.5 cm).** For mounting the unit in a rack.
- **4 plastic washers.** For use with the supplied rackmount screws.
- **4 wood screws, 1/2 in. (1.25 cm).** For fixed installations.

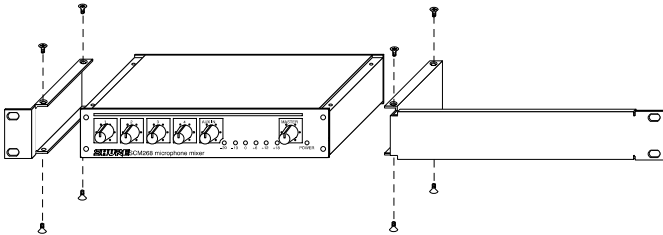


RACKMOUNT INSTALLATION

The SCM268 can be mounted as a single unit or dual-mounted with either another SCM268 or another Shure half-rack unit such as the SCM262 or DFR11EQ. Attach the rackmount brackets using one of the following methods:

Single unit (half-rack) installation:

1. Attach the short and long rackmount brackets to the SCM268 with eight (8) of the supplied bracket screws.

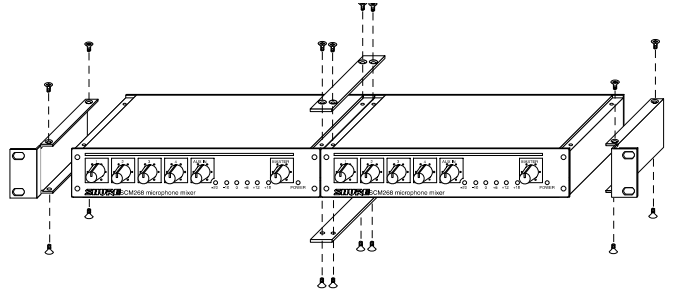


Dual-mounted installation:

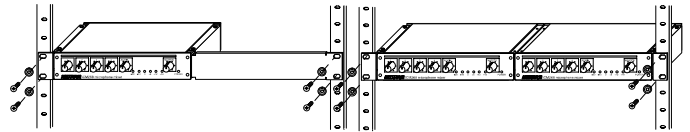
1. Connect the two units together side-by-side using two (2) straddle brackets. The brackets should straddle the recessed edges on the top and bottom of each chassis. Fasten them using eight (8) bracket screws.

NOTE: Be sure to use both straddle brackets—one on the top and one on the bottom.

2. Attach the *short* rackmount brackets to the outsides of the combined units with eight (8) of the bracket screws.

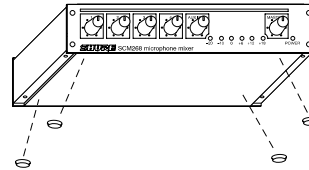


3. After attaching the brackets, mount the unit in an equipment rack using the supplied rackmount screws and plastic washers.



STAND-ALONE INSTALLATION

Adhere the four (4) supplied rubber feet to the bottom of the unit at each corner. This will keep it from sliding and protect the table surface.



FIXED INSTALLATION

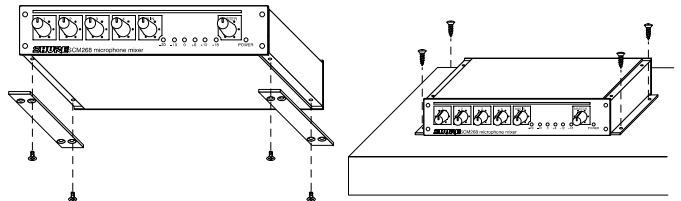
To permanently affix the SCM262 above or below a table, shelf, or counter top, use the following steps:

1. Fasten the straddle brackets to the recessed edges of the chassis using four (4) bracket screws.

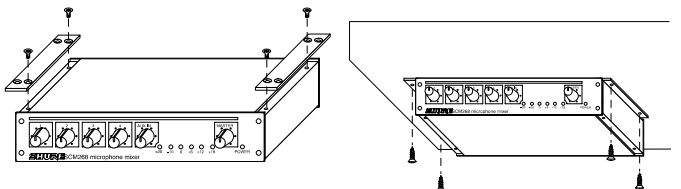
Top mount: Fasten the straddle brackets to on the bottom of the unit

Hanging mount: Fasten the straddle brackets to the top of the unit.

2. Fasten the straddle brackets to the surface using the four (4) supplied wood screws.



TOP MOUNT



HANGING MOUNT

INTERNAL MODIFICATIONS

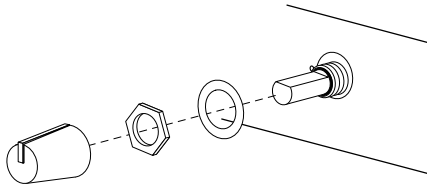
ENGLISH

WARNING! Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

DISASSEMBLY

To access the printed circuit board (pc board) for internal modifications, use the following steps:

1. Unplug the power cord.
2. Remove the knobs and retainer nuts from the front panel (See Figure 2).



KNOB ASSEMBLY
FIGURE 2

3. Remove the four screws at each corner of the **back panel**.
4. Remove the two screws at each bottom corner of the front panel
5. Slide the back panel and pc board out from the rear of the chassis.

CAUTION: When reassembling the SCM268, DO NOT OVERTIGHTEN the knob retainer nuts. Use a minimal amount of force to secure the nut (0.6-0.8 N-m (5-7 in-lb)). Damage to the internal components will result if too much force is used.

LOW-CUT FILTER

To bypass the built-in low-cut filter for a given channel, remove the specified resistor and place a 10µF to 33µF capacitor in the specified pc board location (polarity does not matter). Refer to the following table:

Channel	Remove Resistor from:	Place 10µF to 33µF Capacitor in:
1	R18	X17
2	R28	X27
3	R38	X37
4	R48	X47

To select a particular corner frequency for the low cut filter, remove the R18, R28, R38, or R48 resistor for a given channel as specified above. Then, in the corresponding pc board location (X17, X27, X37, or X47), place a capacitor of the specified value (polarity does not matter). Refer to the following formula for selecting the correct capacitor value for the desired corner frequency.

$$C = 26.5 / F$$

where:

C = value of capacitor in µF
F = corner frequency (-3 dB) for low-cut filter in Hz

The following table lists the low-cut frequency corners for some of the most common capacitor values:

Capacitor Value (µF)	Low-Cut Frequency Corner (Hz)
.033	803
.047	564
.068	390
.1	265
.22	120
.33	80
.47	56
.68	39
1.0	26.5
2.2	12

PHANTOM POWER DISABLE

To disable phantom power for a given microphone input, remove the specified resistor as listed in the following table:

Channel	Remove Resistor:
1	R15
2	R25
3	R35
4	R45

LINE PAD

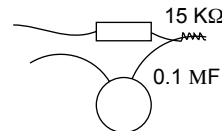
To insert a 50 dB line pad for a given microphone input, remove the specified resistor and short the solder points at the specified pc board locations. Refer to the following table:

Channel	Remove Resistors:	Short Solder Points:
1	R12, R13, R15	X11 and X14
2	R22, R23, R25	X21 and X24
3	R32, R33, R35	X31 and X34
4	R42, R43, R45	X41 and X44

HOT MIC PAD

Some condenser mics have a high output. In order to avoid overdriving the input stage, the user may need to set the input pot lower than desired. To fix this problem, the user can place an 11 dB pad into the input gain stage of a selected channel.

1. Twist together the leads from one side of a 15 kΩ resistor and a 0.1 µF capacitor:



2. Solder the free ends of the resistor-capacitor combination into the holes at the jumper position indicated by the following table and remove the corresponding surface mount resistor.

Channel	Remove Resistor	Insert Resistor-Capacitor Combination at Jumper
1	R18	X17
2	R28	X27
3	R38	X37
4	R48	X47

SPECIFICATIONS

Measurement Conditions (unless otherwise specified): Line voltage 120 Vac, 60 Hz (SCM268) or 230 Vac, 50 Hz (SCM268E); full gain; 1 kHz, one channel activated; source impedances: Mic 150 Ω, Aux Level 150 Ω; terminations: Line 600 Ω, Mic 600 Ω, Aux Out 10 kΩ. 12 V phantom power off.

ENGLISH

Frequency Response (Ref 1 kHz, controls centered)

Microphone Inputs: 150 Hz to 20 KHz ±2 dB (built-in 80Hz low-cut)

Auxiliary Inputs: 20 Hz to 20 kHz ±2 dB

Low-Cut Filter (Microphone inputs only)

3dB down at 80 Hz, 6 dB/octave

Gain (typical, controls full clockwise)

Input	Output		
	Mic	Line	Aux Out
Low-impedance mic (150 Ω)	38 dB	76 dB	65 dB
Aux Level	3 dB	40 dB	29 dB

Inputs

Input	Impedance		Input Clipping Level
	Designed for use with	Actual (typical)	
Mic	19-600 Ω	1.2 kΩ	-5 dBV
Aux Level	≤2 kΩ	21 kΩ	>28 dBV

Outputs

Output	Impedance		Output Clipping Level
	Designed for use with	Actual (typical)	
Mic	low-Z inputs	0.2 Ω	-21 dBV
Line	>600 Ω	72 Ω	+18 dBV
Aux Out	>2 kΩ	870 Ω	+7 dBV

Total Harmonic Distortion

<0.25% at +4 dBu output level (through 22 Hz—22 kHz filter; Input 1 and Master centered, all other controls full counterclockwise)

Equivalent Input Hum and Noise(150 Ω source; through 22 Hz—22 kHz filter)

124 dBV

Output Hum and Noise (through 22 Hz—22 kHz filter; channel controls full counterclockwise)

Master full counterclockwise: -92 dBV

Master full clockwise: -70 dBV

Common Mode Rejection

>80 dB at 1 kHz

Polarity

All inputs to all outputs are non-inverting

Overload and Shorting Protection

Shorting outputs, even for prolonged periods, causes no damage. Microphone inputs are not damaged by signals up to +10 dBV; Auxiliary inputs by signals up to +36 dBV

Phantom Power

12 Vdc open-circuit through 340Ω series resistance

Operating Voltage

SCM268: 100—120 Vac rated nominal, 50/60 Hz, 60 mA
SCM268E: 220—240 Vac rated nominal, 50/60 Hz, 30 mA

Temperature Range

Operating: -7° to 49° C (20° to 120° F)

Storage: -29° to 74° C (-20° to 165° F)

Overall Dimensions

44 mm H x 218 mm W x 162 mm D

(1.72 x 8.60 x 6.37 inches)

Net Weight

1.20 Kg (2 lbs, 10 oz)

Certifications

SCM268: UL & cUL Listed by Underwriters Laboratories, Inc.
SCM268E: Eligible to bear CE Marking. Conforms to European EMC Directive 89/336/EEC. Meets applicable tests and performance criteria in European Standard EN55103 (1996) parts 1 and 2, for residential (E1) and light industrial (E2) environments.

Replacement Parts

Knob, Master (blue)	95B8752
Knob, Channel Gain (white).....	95A8752
Line (Power) Cords:	
SCM268: 100-120 Vac (US/Canada).....	95A8762
SCM268E: 220-240 Vac (EU)	95A8778
Fuse, SCM268 (5x20 mm, 250V, 80mA, slow-blow).....	80A730
Fuse, SCM268E (5x20 mm, 250V, 40mA, slow-blow).....	80J258
Hardware Kit	90AF8100
Link Bars (Bracket)	53A8443
Single Mount Bracket.....	53A8484
Dual Mount Bracket	53B8484

Optional Accessories

Line (Power) Cord, 230-240 Vac (UK)	95A8713
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