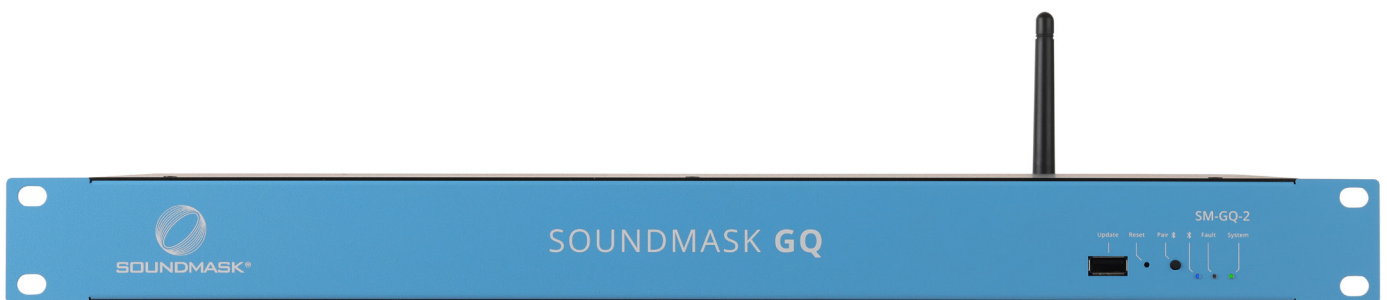


SOUNDMASK®

OPERATING MANUAL

SOUNDMASK GQ SERIES



MODELS [SM-GQ-2](#)
[SM-GQ-4](#)
[SM-GQ-8](#)



www.soundmask.com.au

IMPORTANT SAFETY INFORMATION

The information furnished in this manual does not include all of the details of design and engineering of this particular product; nor does it cover every possible application or situation concerning its usage, which may occur during the installation, operation or maintenance of the product.



The lightning flash and arrowhead within the triangle is a warning sign alerting you of “dangerous voltage” inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.



This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

CAUTION

1. To reduce the risk of electric shock, do not remove cover.
2. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
3. To reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.
4. Risk of Explosion if battery is replaced by an incorrect type. Dispose of used Batteries according to the instructions.

WARNING

1. This product is intended to be operated ONLY from the voltages listed on the back panel or the recommended, or included, power supply of the product.

2. Operation from other voltages other than those indicated may cause irreversible damage to the product and void the products warranty.
3. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.
4. Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

Safety Instructions

1. Read, follow and retain these instructions.
2. Read all warnings.
3. The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, may be placed on the apparatus. Do not use this apparatus near water. Clean only with a damp cloth.
4. The apparatus must be connected to a mains socket outlet with a protective earthing connection.
5. The appliance coupler must remain readily operable for disconnection from the mains.
6. Do not block any of the ventilation openings. Install in accordance with the manufacturer’s instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
8. Do not install the safety purpose of a 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 third grounding plug. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience at plugs, convenience receptacles, and the point where they exit from the apparatus.

10. Only use power cord from attachments/ accessories specified by the manufacturer.

11. Use only with a cart, stand, 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 flip-over.

12. Unplug this apparatus during lightning storms or when unused for long periods of time unless there is a surge diverter on that circuit or that protects that circuit.

13. 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, or does not operate normally.

Please follow the instructions in this manual to obtain the optimum results from this unit. We also recommend that you keep this manual handy for future reference.

FCC STATEMENT

15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television

reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

KDB447498 D01 v05r02 (P5)

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

15.21 / KDB784748 D01 v08 (P4)

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INDUSTRY CANADA STATEMENT — RADIO

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

Exposure:

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS102 and users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

Antenna:

(Ref RSS-Gen, clause 7.1.2, a device with detachable antennas must include additional text regarding antenna gain; this text should be in both English and in French)

This radio transmitter with model: V0104-5A1BBT3 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio with model: V0104-5A1BBT3 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna List						
Antenna	Manufacturer	Model Name	Type	Connector	Gain(dBi)	Note
1	F TIME Technology Industrial Co., Ltd	V0104-5A1BBT3	Dipole	SMA Male	2	2.4G

GENERAL DESCRIPTION

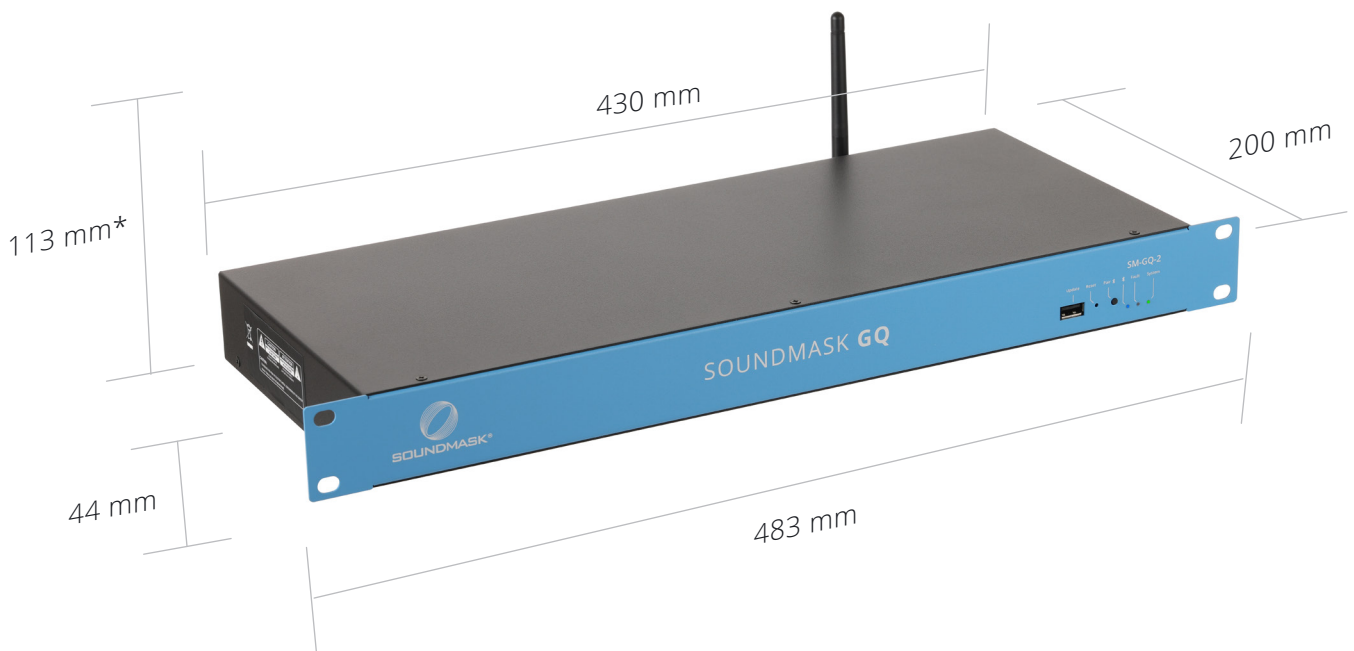
The Soundmask GQ is an App-controlled single rack mounted 2, 4 or 8 channel digital sound generator, equalizer, zone distributor and amplifier, with an output of 50 watts RMS per channel @ 8 ohms.

It features individual channel level control for each channel via the Android Installer App and stereo banana jack outputs to connect the Soundmask transducers (SM-T-1200 & SM-TC-1265 series) which daisy chain in rows of up to 100 transducers per channel. The Soundmask GQ delivers uncoloured signal direct to the transducer.

The SM-GQ-2 is capable of servicing up to 200 transducers (100 per channel), and each channel is its own zone, allowing 2 individual zones per unit (controlled via Installer App). The SM-GQ-4 and SM-GQ-8 are capable of servicing up to 400 and 800 transducers respectively via their 4 and 8 zones, respectively.


The unit connects to mains power via an external power supply. A compatible power cord is supplied with the unit. The voltage input is 100-240VAC, 50-60Hz.

DIMENSIONAL DIAGRAM



* 113mm with aerial at 90° angle. 44mm when aerial is moved behind Soundmask GQ device.

SPECIFICATIONS

Models	SM-GQ-2, SM-GQ-4, SM-GQ-8
Inclusions	<ul style="list-style-type: none"> › Bluetooth® audio configuration & control via App › Volume control › Multiple audio pre-sets › Onboard 32 band Equaliser › Firmware updates from pen driver › Zone control using the App › LED status indication with integrated (eg, push-button) pairing on front of unit › USB for pen driver › Extra-low voltage
Amplifier (per channel)	<ul style="list-style-type: none"> › PWM oscillator is up to 2.88MHz › 50W RMS into 6ohms with Vcc 24V › 50W RMS into 8ohms with Vcc 28V › 24-28V Vcc Supply Voltage Operation › Full Bridge (BTL) output Amplifier › Integrated Short Circuit Protection › Integrated Thermal shutdown › Start Up De-pop Circuit › Efficiency up to 90% › Frequency response 20Hz-20kHz
LED status indications	<ul style="list-style-type: none"> › System Operating › Bluetooth pairing progress › Bluetooth paired connection › Fault indication
Installer App features	<ul style="list-style-type: none"> › Android operation (iOS capability in future) › Bluetooth pairing › ID protected › Zone configuration › Equaliser adjustment (including presets) › Scheduling (ramp and timer) functionality › Volume control › Send log of input via email
Size	483 x 200 x 44 mm (without antenna), 1960g
Compliance	IC CE FC 
Power supply	External power supply with standard IEC socket and compatible plug for each country.
Safety information	Mount unit in locations that provide unobstructed air movement to minimise the risk of overheating.

INSTALLER INTERFACE

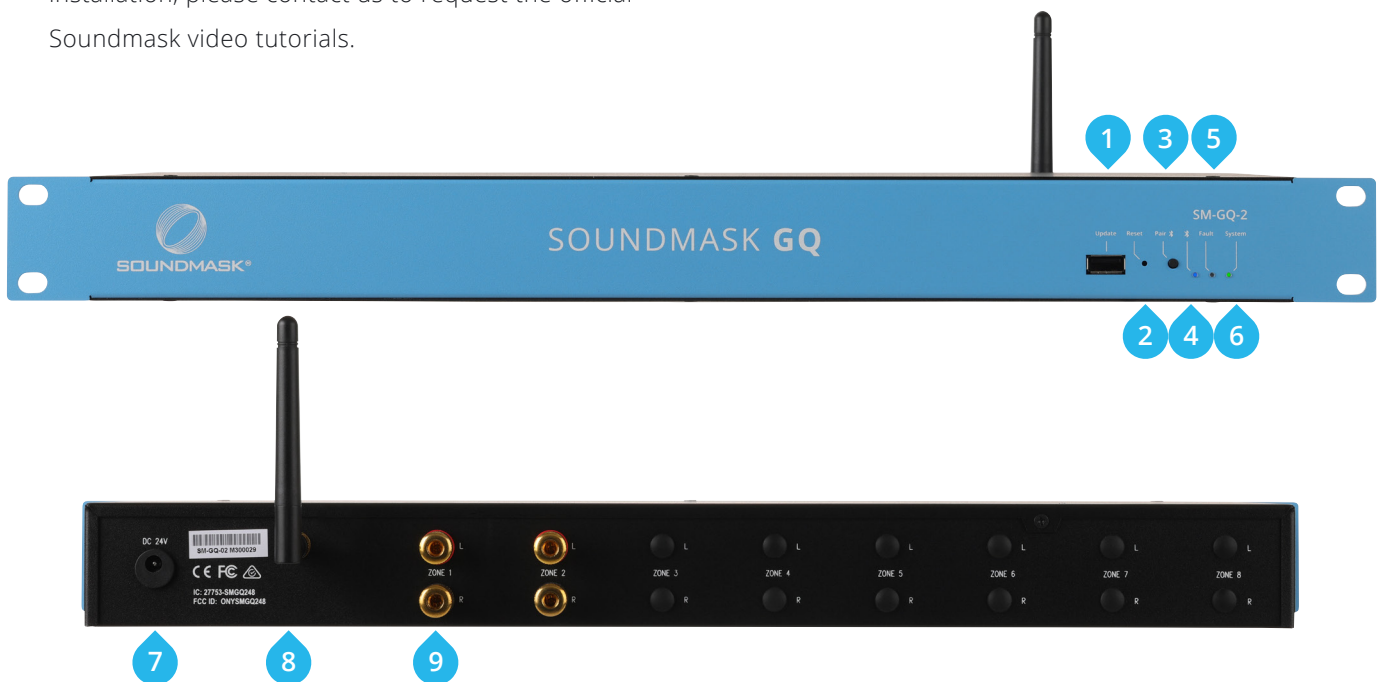
The installer interface is controlled via the mobile Installer Application (**App**), which can be downloaded here: www.soundmask.com.au/app.htm

Authorised Installers are provided with a unique Installer ID, which is used to operate the App and the Soundmask GQ (**SM-GQ**). The App is for use by Authorised Installers only.

For additional information and tips, including installation, please contact us to request the official Soundmask video tutorials.

QUICK SET-UP

1. Connect SM-GQ to 24V DC Power (**7**). Check that the System Power LED is green (**6**).
2. Open the App on phone or tablet. Pair the App via the Bluetooth connection by pressing the pair Bluetooth button (**3**) until the Bluetooth indicator LED flashes blue (**4**). Release the button. When correctly paired, the blue LED (**4**) will cease flashing.
3. Follow the steps on the App to set up the SM-GQ.



FRONT PANEL

1. **USB input** - Update firmware via USB drive.
2. **Reset** - Reset unit to factory settings.
3. **Pair Bluetooth button** - Press and hold for 20 sec to pair Bluetooth.
4. **Bluetooth indicator** - Blue LED light flashes while pairing; constant blue light when paired.
5. **Fault** - Red LED light indicates fault.
6. **System Power** - Green LED light indicates unit is operating.

REAR PANEL

7. **Main Power** - Connects to a standard IEC socket. A compatible power cord is supplied with the unit.
8. **Bluetooth antenna** - Allows pairing to the App. Difficulty pairing may indicate that the antenna is not correctly connected.
9. **Audio outputs** - Each black and red pair connects to one daisy chain of up to 100 Soundmask transducers. Always connect black to black and red to red.

TROUBLESHOOTING

If the unit is running slowly or “freezes up”, reset the unit by turning it off at the power outlet. Leave the unit to reset for one minute before turning the power outlet on again. Relaunch the App before re-pairing with the unit.

For any further problems, contact us via the detail below.


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NOTES



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