



Glensound
Keeps Working

NOMAD LODGE

**Mobile Phone Hybrid
4G VO-LTE, 3G and 2G**

PRODUCT DETAILS



Glensound Electronics Ltd

Thank you for choosing a new Glensound product.

All rights reserved.

Information contained in this manual is subject to change without notice, if in doubt please contact us for the latest product information.

If you need any help with the product then we can be contacted at:

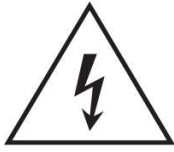
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IMPORTANT SAFETY INSTRUCTIONS

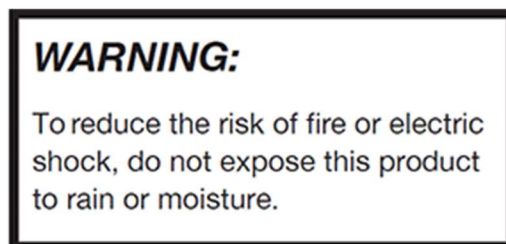
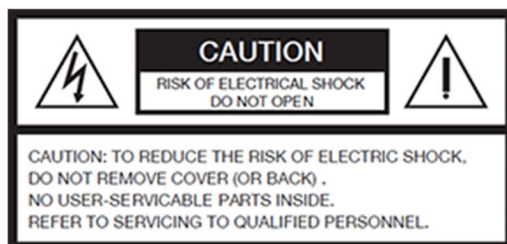


This symbol is intended to warn that dangerous voltages within the product are present and constitute a risk of electric shock.



This symbol is intended to highlight that there are important operating & maintenance instructions in the literature accompanying this unit.

- 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 a dry cloth
- 7) Do not block any ventilation openings. Install in accordance with 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 2 blades with one wider than the other. A grounding type plug has 2 blades and third grounding prong. The wider blade or the 3rd 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/ supplied by the manufacturer
- 12) Use only with the 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 attempt to modify this product. Doing so could result in personal injury and/ or product failure



PRODUCT WARRANTY:

All equipment is fully tested before dispatch and carefully designed to provide you with trouble free use for many years.

We have a policy of supporting products for as long as possible

For a period of one year after the goods have been despatched the Company will guarantee the goods against any defect developing after proper use providing such defects arise solely from faulty materials or workmanship and that the Customer shall return the goods to the Company's works or their local dealer.

All non-wear parts are guaranteed for 2 years after despatch and any defect developing after proper use from faulty materials or workmanship will be repaired under this warranty providing the Customer returns the goods to the Company's works or their local dealer.



This equipment manufactured by Glen sound Electronics Ltd of Brooks Place Maidstone Kent ME14 1HE is **CE** marked and conforms to:

Low Voltage Directive: EN60065

Emissions: EN55103.1

Immunity: EN55103.2

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2006 (WEEE)

Glen sound Electronics Ltd is registered for business to business sales of WEEE in the UK our registration number is:

WEE/JJ0074UR

RoHS2 DIRECTIVE

EC directive 2011/65/EU restricts the use of the hazardous substances listed below in electrical and electronic equipment.

This product conforms to the above directive and for this purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

CONFORMITY STATEMENT FOR:

Quectel EG21-G

-suitable for LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/ 26/28
LTE-TDD: B38/39/40/41
WCDMA: B1/2/4/5/6/8/19
GSM: B2/3/5/8

Certifications:

Carrier:

Deutsche Telekom (Europe)

AT&T/ U.S. Cellular (America) *Please check with Glensound for compatibility

Telus (Canada)

Regulatory:

GCF (Global) CE (Europe) PTCRB (North America) FCC (America) IC
(Canada) Anatel (Brazil) IFETEL (Mexico) NCC (Taiwan, China)

JATE/TELEC (Japan) RCM (Australia) ICASA (South Africa)

Others:

RoHS WHQL

Health and Safety	(Art. 3.1 a): EN 60950-1 :2006+A11 :2009+A1 :2010 +A12:2011 EN 62311 :2008
EMC	(Art. 3.1 b): EN 301489-1:v.1.9.2; EN 301 489-7:v.1.3.1 EN 301 489-24:v.1.5.1,
RF spectrum efficiency	(Art. 3.2): EN 301 511:v .9.0.2; EN301 908-1:v .5.2.1 ; EN301 908-2:v.5.2.1; EN301 908-13:v.5.2.1

GLENSOUND NOMAD/LODGE

Mobile Phone Hybrid

Handbook Contents

Issue 1,

Description

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OVERVIEW

The Glen sound NOMAD/LODGE is a high quality audio interface for broadcasters. It is designed to provide the best possible bi-directional audio across the world's mobile phone networks and it includes the telecom standard of HD Voice which provides a switched telephone circuit with 7kHz audio bandwidth. The mechanical design of the unit is highly robust making it ideal for portable use by journalists, reporters, engineers and broadcasters.

The NOMAD is a portable unit and is powered either from batteries (6 x AA cells) 12v DC or USB type C connection.

The LODGE is a 1U 19" rack unit with an internal AC mains power supply.

ANTENNA PLACEMENT

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons, must not be collocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

ANTENNAS SUPPLIED

The NOMAD is supplied with a pair of ATN1 stubby aerials.

The LODGE is supplied with a pair of ATN2 T-bar aerials.

PANEL LAYOUT & FUNCTIONS (NOMAD & LODGE)



1. DIAL/HANG-UP Button

When a number has been entered, pressing this button will initiate the call. When held down for at least 2 seconds it will end the current call. The button is illuminated red when the call is in progress.

2. MIC ON/OFF

This red LED button is illuminated when the Mic is live. Operation of the button is configurable.

3. Menu

Pressing the menu button takes you through the various options please see page 12.

4. Nano Sim Card Slot

This is the Sim card slot. **WARNING you must make sure you are inserting the sim in the correct orientation; this is with the connections facing up. Any damage caused by the incorrect insertion of sim will result in a chargeable repair.**

5. Back up

This is the back button to exit from the menu screen or backspace the typed number.

6. Encoder Pot – Headphone, Mic Gain and Menu

This volume pot adjusts the audio level of both the headphone amplifiers. Turning it clockwise increases the volume and turning it anti-clockwise decreases the volume.

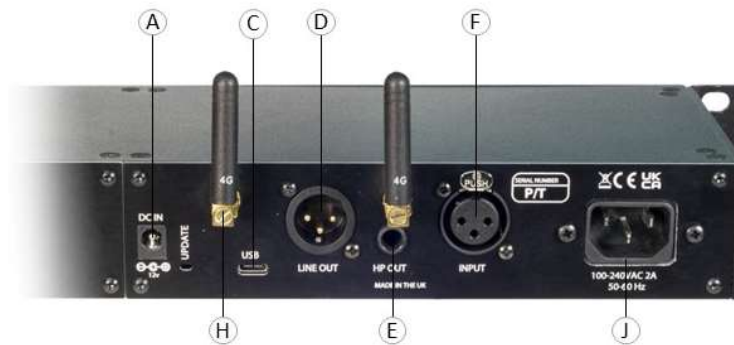
The **mic gain** adjustment can also be carried out by pressing and holding the control knob in whilst rotating this will bring up a PPM Meter on the display, aim to set your gain level at 0. You can also use this to navigate the menus.

7. Keypad

For dialling numbers and selecting favourites

8. Power LED

Power LED



A. Power External DC

This is a 2-pin barrel type DC input connector. The centre pin is 2.5mm. It is wired centre pin + Volts. It is designed to accept a + volt DC input between 10 and 15 volts.

B. Power Switch

This is used to switch the power. Allows for easy transportation with batteries installed, and power cycling

C. USB C

Allows use of USB power bricks to power the NOMAD

D. Line Out

This balanced analogue output provides an output from the NOMAD to connect to other audio equipment such as mixers, recorders, headphone amps etc. The audio that is present on the output can be altered in the configuration menu.

E. 6.35mm Professional Headphone Jack Socket

Connect headphones here. This headphone outputs are suitable for professional high impedance (100 – 1000 Ohm). Using lower impedance domestic headphones will reduce battery life and potentially produce high audio levels in the headphones.

F. Input XLR Balanced Audio Input

This balanced standard 3 pin XLR audio input socket



G. Battery compartment (NOMAD ONLY)

Two stainless steel thumbscrews hold the 6 x AA battery holder in place. To remove the battery cover, turn the thumbscrews anti-clockwise until they are completely undone and then gently slide the cover away taking care not to damage the antenna.

***Please note removing the battery cover will disconnect the battery compartment and make the NOMAD turn off if no external supply is connected.

H. SMA Aerials

The NOMAD requires 2 antennas for diversity purposes (provides better network connections than just 1 antenna). The 2 antennas are called primary & secondary but both are equally required for trouble free working.

I. Fixing Holes (NOMAD ONLY)

These holes in the lid and base can be used for a shoulder strap (not supplied) or for inserting screws through if the Nomad is to be permanently mounted.

J. IEC Mains (LODGE ONLY)

3 pin IEC Mains inlet accepting a mains input range of 100 – 240 VAC. *****THIS UNIT MUST BE EARTHED*****

NOMAD/LODGE Navigation

Retrieving IMEI Number

1. Switch Device Off using the power switch located on the rear of the Nomad, or remove the power IEC Power cable if using the Lodge
2. Remove the Sim-Card
3. Power the unit back on while holding down the Encoder button. Keep this pressed down until you see the IMEI Number

Screens

1. Boot Screen

- This is a holding screen while the NOMAD/LODGE boots

2. No SIM Found

- This Screen will show when there is no SIM card detected
- Once a SIM is detected the unit will automaticity reboot

3. SIM Error

- This will show if the NOMAD/LODGE has found a problem with the SIM or it is unsupported

4. SIM Pin

- This will show if the SIM is locked. Enter the PIN using the keypad. This screen also shows the remaining attempts left before the SIM locks

5. Searching for network

- This screen will appear while the NOMAD/LODGE establishes a connection to a carrier

6. Home Screen

- One this screen you are shown the signal strength, carrier name and battery status (full to empty or plugged in mode)
- To dial out on this screen simply start typing the number you wish to call and then hit the dial button to start the call

7. Menu Screens

1. Save and Recall

- To save a number start at the home screen and type in the number you would like to save, then press the settings button. This will bring up the save screen. Now using the 0-9 buttons on the keypad select a slot to save the number to. Once selected you will be taken back to the dial out screen. The number is now saved
- To recall a number, simply press the settings button and the first screen will be the recall screen. Now use the keypad select a slot from 0-9 and the number will be called and you will be taken to the dial out screen

2. Silent Mode

- This screen enables or disables the on board external ring tone but does not disable the ring tone on the headphone output

3. Input Mode

- This screen lets you switch from Mic, Mic+PH and Line Mode. There is no change to the gain setting when going from Mic to Mic+PH
- When switching into line mode the gain is reduced and the input level is reset to 0

4. HP End Stop

- This screen allows you to set a minimum audio level on the headphones to prevent headphones from being turned completely off. The audio level is selectable between 'off' or 1-20.

- A message will display on the headphone volume screen to let the user know that end-stop is enable.
- 5. Auto Answer
 - This screen has 2 modes enabled or disabled (on/off) to allow unit to auto answer incoming call
- 6. ANC (automatic noise cancellation)
 - This screen has 2 modes enabled or disabled (on/off). When this setting is on the NOMAD/LODGE will reduce the level of background noise presented on the input.
- 7. Line Out
 - This screen allows the user to choose what audio is on the line out port (outbound, inbound or mixed audio). The mix is at a 50/50 of outbound and inbound
- 8. HP Out
 - This Screen allows the user to choose what audio is on the headphone port (outbound, inbound or mixed audio). The mix is at a 50/50 of outbound and inbound
- 9. Mic Key Behaviour
 - this screen let you chose how the Mic Key operates
 - **Latching (unmuted)** This sets the switch to latching on/off, and sets the mic status to 'on' when a call is answered.
 - **Latching (muted)**. This sets the switch to latching on/off, and sets the mic status to 'off' when a call is answered.
 - **Cough mode** leaves the mic input permanently 'on' but lets the user easily mute the mic when the mic button is held down. Once released the mic will unmute

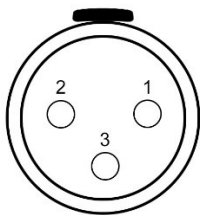
8. On Call Screen

- This screen is the default when on a call and will allow a limited selection of settings. DMTF tones can be sent using the keypad. Auto redial can be enabled by pressing the settings button and selecting Redial.

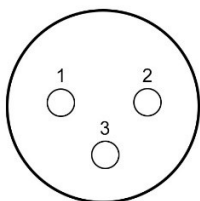
Redial notes

- Auto redial can only be accessed while in a call. If the call drops or the remote user hangs up, the NOMAD/LODGE will redial.
- End the call on the NOMAD/LODGE to turn off the redial function

Wiring Information



XLR SOCKET (FEMALE)



XLR SOCKET (MALE)



STANDARD XLR AUDIO PINOUTS:

- 1: Ground/ Earth**
- 2: INPHASE/ POSITIVE/ MIC +**
- 3: MATE/ NEGATIVE/ MIC -**

STANDARD XLR AUDIO PINOUTS:

- 1: Ground/ Earth**
- 2: INPHASE/ POSITIVE/ LINE +**
- 3: MATE/ NEGATIVE/ LINE -**

STANDARD HEADPHONE WIRING:

- TIP: LEFT EAR**
- RING: RIGHT EAR**
- SLEEVE: GROUND/EARTH**