HOLLYLAND

Geo Central Station

Quick Guide

V1.0

Foreword

Safety Instructions

For safety purposes, please read the following safety precautions before using the device to ensure proper product usage:

- Do not install the device near or inside heating appliances, cooking equipment, high-pressure containers (such as microwaves, induction cookers, electric ovens, electric heaters, pressure cookers, water heaters, gas stoves, etc.) to prevent battery overheating and explosion.
- Use only original manufacturer-certified chargers, cables, and batteries. Unauthorized or incompatible accessories may cause electric shock, fire, explosion, or other hazards.
- Prevent the power cord from being stepped on or squeezed, especially at the plugs, sockets, and extended sections.
- Disconnect the power plug during thunderstorms or when the device is not in use for extended periods.
- Do not disassemble the device unless directed by qualified manufacturer technicians.
- All repairs must be performed by authorized service personnel.

Foreword

EN Please read this Quick Guide carefully. We wish you a pleasant experience. To obtain Quick Guide information in other languages, please scan the QR code below.

Key Features

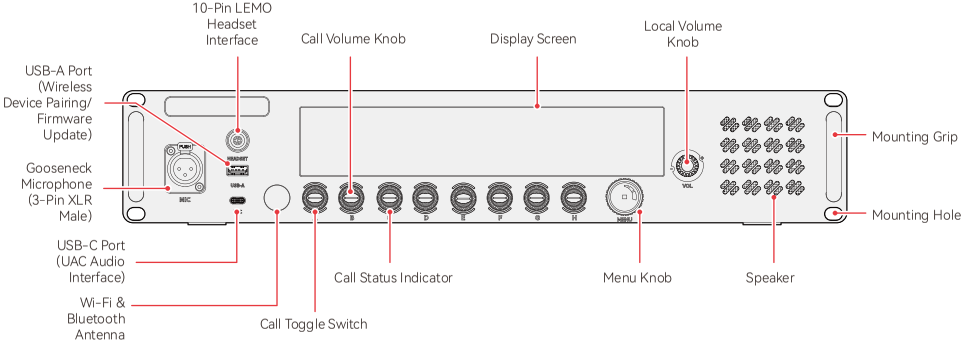
- The central station and antenna module feature a modular design. The central station supports cascading up to 8 antennas, while each antenna can operate independently without the central station. In standalone mode, antennas allow cascading of up to 3 units. Each antenna accommodates connections with 20 beltpacks, enabling flexible network configurations to achieve full-duplex communication for 10-80 beltpacks.
- The antenna delivers a 500-meter wireless coverage radius, with 8 antennas cascaded covering an area larger than 900 football fields. Seamless roaming cascade between antennas ensures uninterrupted connectivity, allowing beltpacks to move freely within the coverage zone without signal dropout.
- The beltpack features four dedicated call buttons and one reply button. Each call button supports binding with up to 4 audio channels. A single beltpack can support full-duplex communication with up to 16 audio sources simultaneously.
- The system supports storage of up to 100 group configurations, 100 role presets, and 80 beltpack profiles, enabling customized communication logic for diverse client scenarios while eliminating repetitive system configuration tasks.
- Ultra-compact beltpack (net weight: 305g) with integrated Bluetooth 5.2 module. Compatible with mainstream wireless headsets, enabling cable-free operation on set.
- Auto-Cascade enables plug-and-play connectivity between Geo Central Station and Solidcom ANT01 Antenna via Ethernet, requiring zero IP configuration or manual network parameter setup.
- The beltpack features fast pairing via the charging base. By cascading the charging base into the central station/antenna network, automatic pairing and one-click system configuration deployment can be achieved, significantly improving the efficiency of configuring large-scale systems.
- The Geo Central Station/Solidcom ANT01 Antenna supports WiFi/Bluetooth connectivity with PCs and mobile devices. Wireless access via web configuration interface and dedicated APP enables remote adjustment of system parameters.
- The system configuration document supports local import and upload, as well as cloud-based virtual configuration. This enables remote system configuration design, which can be saved locally for later on-site upload, significantly improving workflow efficiency.

Key Features

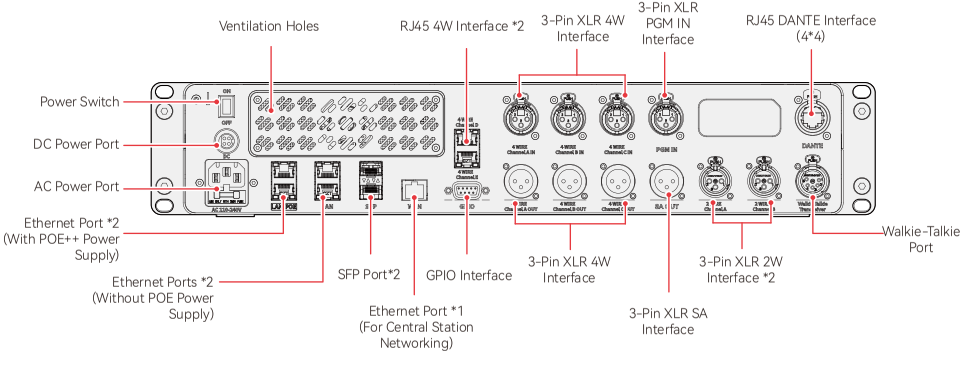
- The central station features a built-in 4×4 DANTE port, enabling direct integration of the intercom system into the on-site DANTE/AES67 network.
- The intercom system enables remote configuration access via web interface, allowing technical support personnel to provide real-time assistance over internet connections for on-site issue resolution.
- Systems equipped with the Geo Central Station support remote access for up to 8 cloud-based APP users, while systems solely equipped with the Solidcom ANT01 Antenna still support remote access for up to 4 cloud-based APP users. Real-time global access from any location is achievable via the internet.
- The beltpack (IP65-rated) and antenna (IP54-rated) provide water and dust resistance, enabling reliable operation in rain or adverse weather conditions.
- The beltpack system features replaceable batteries and includes a standard charging base capable of simultaneously charging 10 beltpacks or 10 individual batteries, with each battery providing 15+ hours of continuous operation.
- The professional intercom headset features a 0B10 interface, combining rugged durability with ergonomic comfort. Equipped with Dual-Mic ENC (Environmental Noise Cancellation), it delivers high-quality audio communication in noisy environments.

*** The related data is based on Hollyland laboratory test results.**

Product Interfaces - Front

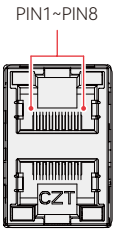


Product Interfaces - Rear



Product Interfaces

LAN Interface

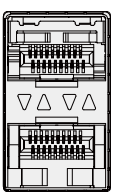


LAN

Standard Pinout			
PIN1	-POWER	PIN5	+POWER
PIN2	-POWER	PIN6	+POWER
PIN3	+POWER	PIN7	-POWER
PIN4	+POWER	PIN8	-POWER

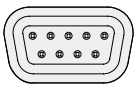
SFP Port

- Single-Mode Gigabit



SFP

GPIO Interface



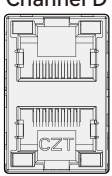
GPIO

Pin	Function
1	Ground (GND)
2	Relay 1 Normally Open (NO)
3	Relay 1 Normally Closed (NC)
4	Relay 1 Common (COM)
5	Relay 2 Normally Open (NO)
6	Relay 2 Normally Closed (NC)
7	Relay 2 Common (COM)
8	Input 1 (Optocoupler Isolated)
9	Input 2 (Optocoupler Isolated)

4-WIRE RJ45 Interface

- Input Impedance: 10KΩ

4 WIRE Channel D

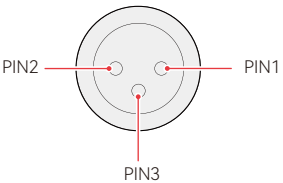


4 WIRE Channel E

Standard Pinout	
PIN1	GND
PIN2	GND
PIN3	AUDIO OUT+
PIN4	AUDIO IN+
PIN5	AUDIO IN-
PIN6	AUDIO OUT-
PIN7	GND
PIN8	GND

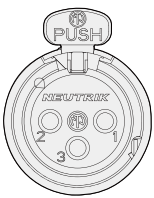
Product Interfaces

4-WIRE XLR/PGM/SA Interface



- PIN1: GND
- PIN2: AUDIO+
- PIN3: AUDIO-

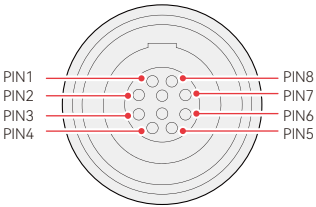
2-WIRE Interface



2 WIRE
Channel A

- PIN1: GND
- PIN2: DC POWER IN / AUDIO CH1
- PIN3: AUDIO CH2

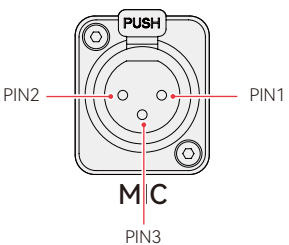
LEMO Interface



HEADSET

Standard Pinout			
PIN1	GND	PIN5	MICP
PIN2	DET	PIN6	MIC_GND
PIN3	GND	PIN7	MICP2
PIN4	SPK	PIN8	ENC_KEY

MIC Interface



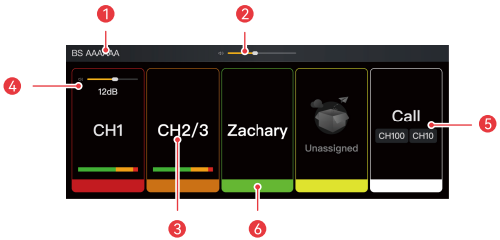
MIC

- PIN1: GND
- PIN2: AUDIO+
- PIN3: AUDIO-(1.8V)

Home Page Introduction

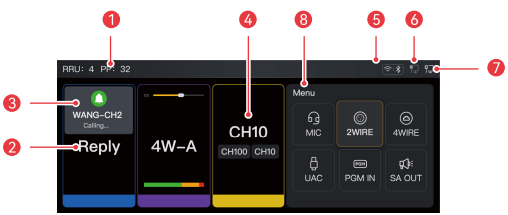
Central Station

- Screen 1



① Custom name for central station
② Speaker output adjustment (press to toggle mic input mode)
③ Knob-assigned communication source
④ Output gain adjustment for assigned source
⑤ Call function configuration (call target)
⑥ Central station status indicator (talk/mute)

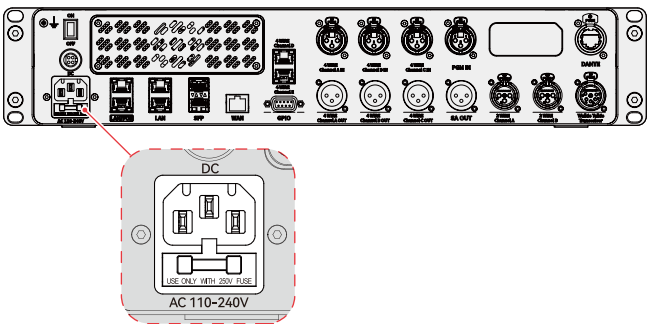
- Screen 2



① Cascaded system status: Online RRUs / beltpacks
② Knob assignment: Reply function
③ Active callers to central station
④ Combo configuration: Audio source + call target
⑤ Wireless status: Bluetooth/WiFi/Dual-mode/Off
⑥ Port status: Ethernet/RRU/charging base (disconnected)
⑦ Port status: Ethernet/RRU/charging base (connected)
⑧ System menu

Installation

1. The unit is compatible with 19-inch standard network racks, requiring 2U vertical space and 385mm depth. Please select racks with >2U height and >400mm depth for installation.
2. Connect to any power interface and press the power button to activate. When available, utilize dedicated UPS outlets for primary power supply to establish backup redundancy, ensuring uninterrupted communication operations.



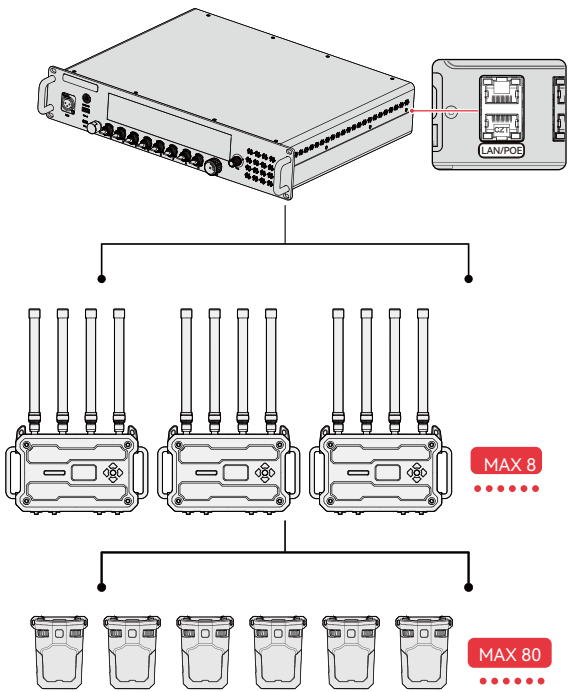
Connection

Integrated Mode

A single central station supports cascading up to **8 antennas**. Antennas can be daisy-chained via **POE-powered network ports** on the rear of the central station, with each POE port supporting up to **3 antennas**.

Alternatively, antennas can be powered separately via an adapter and connected to the standard network ports on the central station.

In this mode, up to **80 belt packs** can be simultaneously online with full-duplex communication.

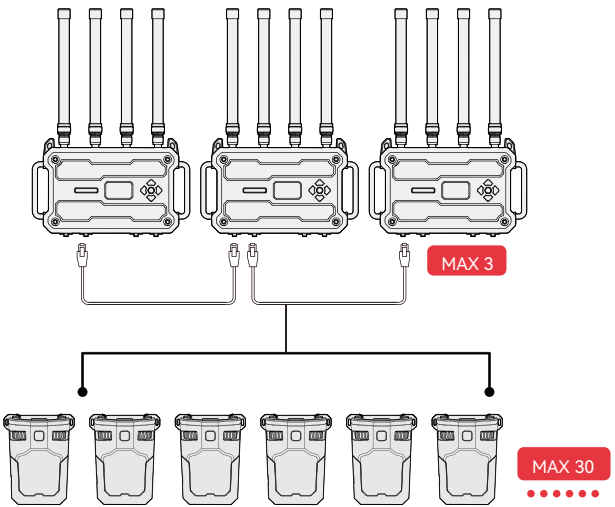


Connection

Standalone Mode

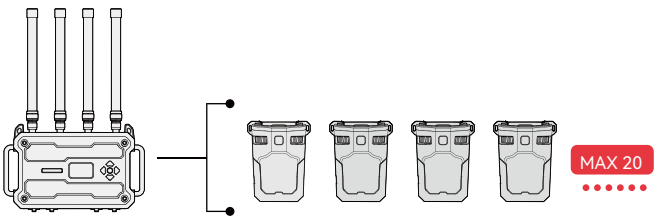
- Multi-RRU cascading system

1. Standalone operation
   - Max 3 cascaded antennas without central station
   - Each antenna provides POE-powered LAN ports (1 set per unit)
2. Power distribution
   - Single POE adapter drives 3 antennas
3. System capacity
   - Supports 30 concurrent beltpacks
   - Guarantees full-duplex communication



- Single-RRU operation

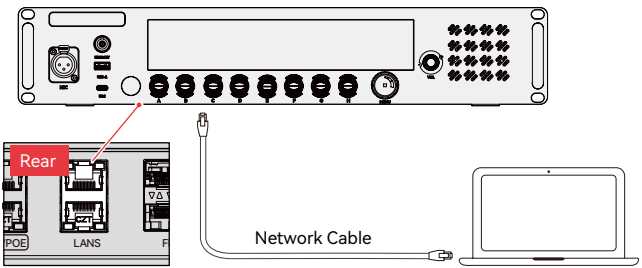
1. Capacity
- Supports 20 concurrent beltpacks
- Full-duplex communication
2. Power configurations
- Power can be supplied via a POE adapter or a V/G mount battery. Please note that when using battery power, the official battery mounting plate must be installed on the back of the antenna.



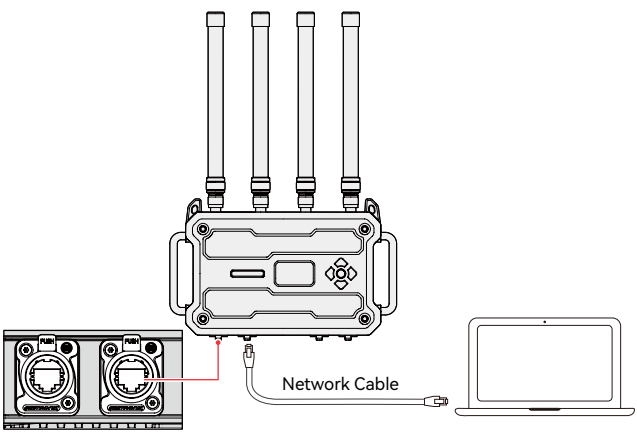
System Configuration

Web Configuration

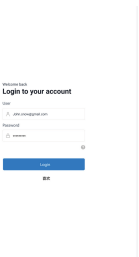
1. Connect the rear LAN port (RJ45) of the central station to the PC Ethernet port using a standard RJ45 cable.



Alternatively connect the PC Ethernet port directly to any antenna's LAN port (RJ45).



2. Configure the computer's IPv4 settings to match the central station's subnet. Launch the default browser, enter the central station's IP address, and navigate to the web login interface.



3. Log in using [Default username: admin; Default password: 12345678] or custom credentials to access the web-based system configuration interface.

APP Configuration

1. Download the „HOLLYVOX“ app.

HOLLYVOX

2. Enable Bluetooth on your phone, search for a Bluetooth device starting with “HLD”, and tap to connect.
3. Open the “HOLLYVOX” app, wait for the software to fully load, then tap „Connect“ to start configuring the central station.

Specifications

Central Station	
Total Power Consumption	44W
POE Output Power	120W; 60W/Port
DC Input Voltage	46~54V
AC Input Voltage	85~264V
Dimensions	482.6*88.1*385
Weight	7.25kg
Operation Temperature	-10~45℃
Storage Temperature	-20~60℃
LEMO Audio	
Input Frequency Response	200HZ~6.5KHZ
Maximum Input SPL	115dBSPL
Noise Cancellation Depth	20dB
Distortion	<1%
Signal-to-noise Ratio (SNR)	67dB
Output SPL Level	113dBSPL max

Disclaimer

Safety Precautions

Do not place the device near or inside heating devices (including but not limited to microwave ovens, induction cookers, electric ovens, electric heaters, pressure cookers, water heaters, and gas stoves) to prevent the battery from overheating and exploding. Use the original charger, data cables, and batteries provided with the product. Using unauthorized or incompatible chargers, data cables, or batteries may cause electric shock, fire, explosion, or other dangers.

Support

If you encounter any problems in using the product or need any help, please contact Hollyland Support Team via the following ways:

Hollyland User Group
HollylandTech
HollylandTech
HollylandTech
support@hollyland.com
www.hollyland.com

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HOLLYVIEW

Powered by Hollyland

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