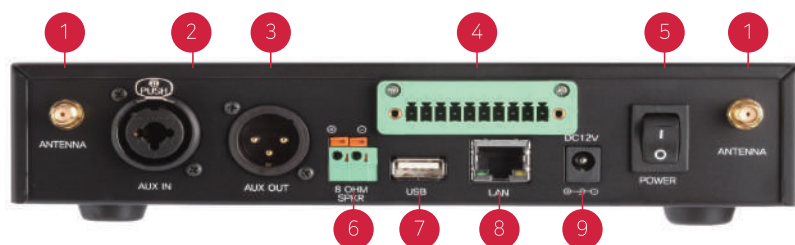## FRONT

01 Talk key with LED indicator
02 Genie group channel selection button
03 4-Wire setting button with LED indicator
04 Genie group channel setting button for 4-Wire
05 AUX In, AUX In/Out setting button with LED indicator
06 Genie group channel setting button for AUX
07 RF Alert, Remote Antenna Link/Active indicator
08 Call button
09 Volume Up/Down, Left/Right button
10 Headset connector (Receptacle)
11 Display screen

REAR

01 Antenna connectors
02 Auxiliary input connector
03 Auxiliary output connector
04 4-Wire and Multi-Sync connector
05 Power switch
06 8-Ohm speaker 2-pin spring clamp connector
07 USB (Reserved)
08 RJ45 LAN connector
09 12VDC Power input connector

Genie is the industry's first converged digital IP intercom system enabling both IP Key Panel and 5GHz wireless communications in one system. Genie is a daisy-chain PoE scalable solution facilitating connections across an entire studio, theatre or stadium through CAT5e STP or fiber cable offering various communication routings with the best-in-class audio clarity and low system latency.
The system comprises a Base Station, IP Key Panel, Remote Antenna, Repeater, IP Beltpack, Wireless Beltpack, Wireless IFB Receiver, Line Router and WAN Link. Depending on the system configuration and requirement, Genie offers various redundant solutions with an optional dual power.
Genie Key Panels are matrix-free IP networking intercom system designed to be used independently or in conjunction with Genie wireless devices. The Key Panels provide various audio paths such as peer-to-peer talk and listen, allocation of multiple key panels on a key (group key), interoperation with Genie group channels(conference mode), Line connections, Line audio routings and IFBs. Also, a license-free and channel-rich 5GHz UNII band secures for the better reliability on wireless connections and communications in congested environments. GCM(Genie Configuration Manager) supports for an integrated system management with an efficient configuration and setting. The connection status and RF channel in use of each antenna can be monitoring with full visibility.

GENIE devices at a glance

Model	Product name	Talk key	4W or 2W Line	4W Line	Daisy-chain PoE	PoE In	Relay	OPTO Input	Multi-Sync	Power Redundancy
BS1000	Base Station	8	2	2	2	1	2	2	O	(2 x PSU) + PoE
BS850	Base Station	1	-	2	-	-	-	-	O	PSU
RA100DW	Remote Antenna, IP53-65 sealing	-	-	-	2	1	-	-	-	PSU + PoE
RA100	Remote Antenna	-	-	-	-	1	-	-	-	PoE
RBS85	Repeater	-	-	-	-	1	-	-	-	PoE
BP850(851)	Wireless Beltpack	2(4*)	-	-	-	-	-	-	-	Battery
WR850	Wireless Receiver	-	-	-	-	-	-	-	-	Battery
IBP10	Ethernet Beltpack	4	-	-	2	-	-	-	-	PoE

GENIE system capacity

Description	Base Station BS1000	Base Station BS850	Remote Antenna	Repeater RBS85
Connections of Remote Antenna RA100DW/RA100	6	3	–	–
Connections of Repeater RBS85	60 with 6 Remote Antennas	30 with 3 Remote Antennas	10	–
Connections of Wireless Beltpack BP850/BP851	128	128	128	128
Connections of IP Beltpack IBP10	120 with 6 Remote Antennas	60 with 3 Remote Antennas	20	–
Simultaneous Talk paths	70 with 6 Remote Antennas	40 with 3 Remote Antennas	10	10 with a Remote Antenna
Listen paths	Min. 128	Min. 128	Min. 128	Min. 128

Description	Connections			
Recommended multiple Base Stations connection	Up to 5			
Base Stations paired with a BP850/BP851/WR850	Up to 5			
Base Stations paired with IBP10	Up to 2			

BS850 Main features

- Hybrid Base Station for Wireless Beltpack, Wireless IFB Receiver, IP Beltpack and IP Key Panel connections
- Operates in channel-rich 5GHz UNII band frequency
- Highly scalable Ethernet Remote Antenna and Repeater solution - Up to 3 Remote Antennas and 30 Repeaters connection
- 128 Key Panels or IP Beltpacks connection per system
- 128 Wireless Beltpacks or Wireless IFB Receivers are freely connected to any Genie antennas
- Any of 128 Wireless Beltpacks can be in master mode
- 5 Genie group channels (conference mode) for all Genie devices

- A Base Station with 3 Remote Antennas provides up to 40 simultaneous Talk paths and unrestricted Listen paths.
- Excellent audio clarity with 7.2KHz audio bandwidth and 23ms low latency
- Top security with AES 256 bits level III encryption
- 2 Lines (4-wire and AUX I/O)
- Ethernet synchronizations to avoid possible RF interference, packet loss, delay or jitter
- System configuration, setting and monitoring with Genie Configuration Manager (GCM)

BS850 Specification

RF Frequency	Use 20Mhz channels within the 5GHz U-NII band from 5180 - 5845MHz depending on regions
Antenna	Two external 1/2 -wave dipole, SMA female
RF Modulation	QPSK
Beltpacks per Base Station	128 Wireless Beltpacks or Receivers can be paired with a Base Station. It supports 10 Talk and 128 Listen paths at the same time.
Genie Group Channels	Five(5) conference channels
Audio Bandwidth	200 Hz to 7.2 KHz
Headset Output	250mW, 32 Ohm
Latency	One-way system latency less than 23ms direct
Security	256 bits key AES level 3 Encryption
Front Panel Display	OLED
Front Panel Button	Touch buttons

Headset	Dynamic or Electret, 6-pin Mini-Din male, Receptacle
Auxiliary Input	XLR-3F/1/4" (6.35mm) combo jack, 600Ω balanced, level adjustable
Auxiliary Output	XLR-3M, 600Ω balanced, level adjustable
8Ω Speaker Output	350mW into 8Ω
4-Wire I/O	10-Pin Spring Clamp connector, 600Ω balanced, level adjustable
Multi-Sync Port	10-Pin Spring Clamp connector. Up to 3 Base Station can be connected
LAN Connector	RJ-45 Connector, 100Mbps Standard LAN specification
Power Supply	Consumption: 9 watts The external PSU provides 12VDC 3.33A and at its input takes 100-240VAC, 47-63Hz
Operating Temperature	0°C to 50°C (32° F to 122° F)
Dimensions	8.26W x 6.37D x 1.73H inch (21W x 16.2D x 4.4H cm) without connector and foot.
Weight	2.41 lb (1094g)