LAON ON CANS

LaON 5GHz INTERCOM

Channel rich, Scalable, Stable and Seamless Wireless Intercom solution

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CONVERGED DIGITAL IP INTERCOM SYSTEM

GENIE
INTERCOM

IP Key Panel + IP Beltpack
5GHz Wireless Beltpack +
Wireless Receiver
connections in
One(1) system

TV Station | Mobile/Outside Broadcast | Production House | Studio
Theatres | Live Events | Conference | eGame Arena | Sports Broadcast
Stadium | Sports Facility | Theme Parks | Church | House of Worship
Industrial | Military | Government | Aerospace | Medical | Corporate
University | Education | Rental

LaON Technology

GENIE is the industry's first converged digital IP intercom system enabling IP Key Panels, 5GHz Wireless Intercom and Wireless Receiver connections with a single Base Station. With GENIE, 6 Remote Antennas, 60 Repeaters and 128 IP Key Panels or IP Beltpacks can all be connected through PoE (Power of Ethernet) while having 128 Wireless Beltpacks and Receivers connections at the same time.

With this boundaryless hybrid solution, GENIE offers a high flexibility and scalability in system configurations. It is easy to extend the system from a simple to a large scale of configuration without a high-cost analog based matrix system and meet the complex communication requirements depending on the work flows.

Also, GENIE provides full connectivity with other devices and supports critical remote productions by connections through an internet. And an integrated management of the system configuration, setting and monitoring can be fulfilled with GENIE Configuration Manager (GCM) with full visibility.

License-free 5GHz UNII BAND
GENIE operates in 5GHz UNII band, the worldwide license-free frequency band that provides approximately up to 30 RF channels depending on the regions as opposed to few RF channels on 2.4GHz ISM band. With the advantages high frequency band offers, GENIE is also hardly affected by high-power digital equipment such as amplifiers and speakers. Users can enjoy pleasant wireless communications with the minimized traffics or interferences.

Highly efficient PoE configurations
GENIE is a PoE scalable system that transmits both data and power through PoE for all GENIE Ethernet products. In view of system redundancy, loopback can also be set by building a ring connection. You can easily wire and install complex systems using light weight Cat5/6e STP or fibre cable.

▌GENIE **FEATURES**

IDUSTRY'S FIRST BOUNDARYLESS HYBRID INTERCOM SYSTEM

5GHz Wireless
+
IP Key Panel

Hybrid Wired and Wireless on One Base Station

- Hybrid system enabling IP Key Panel, IP Beltpack, Wireless Beltpack and Receiver connections with a single Base Station
- Base Station, Remote Antenna, IP Key Panel & Beltpack, W/L Beltpack & Receiver, Line Router and WAN Link in configuration

MULTI-CHANNEL ETHERNET DEVICES IN THE SYSTEM

BS1000 & KEY PANEL

4W/2W CH.

4

TALK KEY

4/8 16/32

Highly Scalable Multi-channel Digital IP system

- 4 Lines Base Station with 8 Talk channels & Keys
- 4 Lines Key Panels with 8/16/32 Keys
- Ethernet Beltpack with 8 Talk channels & 4 Keys
- Line Router & WAN Link for Remote Communications

MATRIXLESS IP INTERCOM YET SUPER-SCALABLE SOLUTION

70 Full-duplex CH.
66 Wireless Antennas
128 Wireless Beltpacks
128 IP Key Panels

GENIE
Fully Scalable and Flexible Hybrid solution!

SOLO in case of BS1000

- 70 Full-duplex Talk & unlimited Listen ch. for Wireless
- 128 ch. for IP Key Panels or IP Beltpacks
- 66 Wireless Antennas connections
- 128 W/L Beltpack or Receiver connections per any Antenna

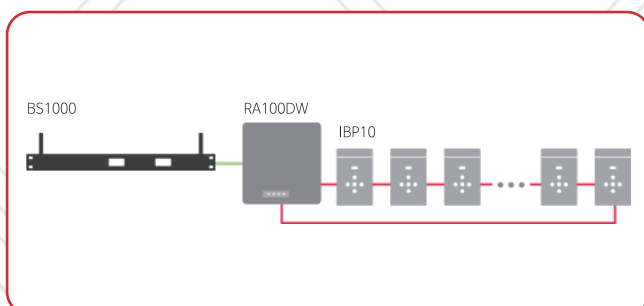## LICENSE-FREE AND CHANNEL-RICH 5GHz UNII BAND

2.4GHz CH.
4

5GHz CH.
30

Pleasant Wireless Communications and Connectivity

- GENIE wireless devices operate in channel-rich 5GHz UNII band
- Up to 30 RF channel options offer a reliable connectivity
- High performance audio quality with extra low latency
- Enhanced wireless coverage based on in-house RF technology

SEAMLESS, SCALABLE, FLEXIBLE, RELIABLE, AND EASY-TO-DESIGN & EXTEND

BS1000   RA100DW   IBP10

- Highly efficient daisy-chain enabled PoE scalable system
- Ethernet Synchronization for system stability
- Dual power Base Station & Key Panels
- Power and Data redundant system by PoE

SETTING AND MONITORING WITH GENIE CONFIGURATION MANAGER(GCM)

GENIE
CONFIGURATION MANAGER

Convenient tool enabling Integrated system management

- Configuration and setting over an Ethernet connection
- Monitoring – Setting value, Freq. channel, Connectivity & RSSI
- Setting for WAN Link, Line Router and IFB communications
- Integrated system management and restoration

GENIE DEVICES

GENIE Base Station | BS1000

- 4 Channels for 4-Wire or 2-Wire
- 8 Talk keys and Volume switches, GPIO, Relay, Opto Input
- PoE OUT x 2, PoE IN x 1
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- 70 Full-duplex Talk & unlimited Listen ch. for Wireless
- 66 Wireless Antennas, 128 Key Panels, 128 W/L Beltpacks connections
- Automatic seamless roaming between Wireless Antennas
- Wireless Antenna signal and dual power

GENIE Base Station | BS850

- 2 Channels for 4-Wire
- LAN x 1
- 1 Talk key and a Headset connection for communication
- 40 Full-duplex Talk & unlimited Listen ch. for Wireless
- 33 Wireless Antennas, 128 Key Panels, 128 W/L Beltpacks connections
- Wireless Antenna signal and automatic roaming between Antennas

Remote Antenna | RA100DW

- Internal antenna and environmental sealing
- Connecting GENIE IP devices (Repeater, Key Panel & IP Beltpack)
- 6 x RA100DW per BS1000, 10 Repeater connection per RA100DW
- Adding 10 Full-duplex Talk ch. per device with unlimited Listen ch.
- Up to 128 Wireless Beltpacks or Receivers connections
- 48V DC, PoE OUT x 2, PoE IN x 1

Remote Antenna | RA100

- External antenna
- Connecting GENIE IP devices (Repeater, Key Panel & IP Beltpack)
- 6 x RA100 per BS1000, 10 x RBS85 Repeaters per RA100
- Adding 10 Full-duplex Talk ch. per device with unlimited Listen ch.
- Up to 128 Wireless Beltpacks or Receivers connections
- PoE IN x 1

Wireless Repeater | RBS85

- Expansion of wireless coverage
- 10 x connection per Remote Antenna RA100DW/RA100
- Up to 128 Wireless Beltpacks or Receivers connections
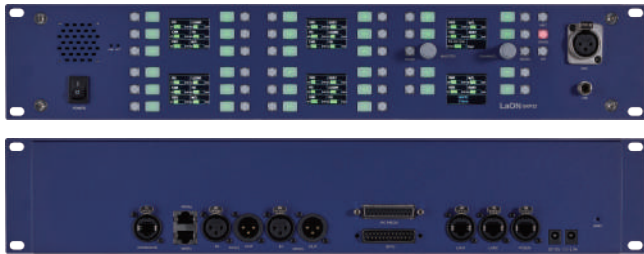- Sharing the Full-duplex ch. with the corresponding Remote Antenna
- PoE IN x 1

GENIE IP
KEY PANEL
INTERCOM

Scalable, Flexible and Efficient
Matrix-free IP Intercom solution

GENIE DEVICES

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IP Key Panel | GRP32

- 2U type Key Panel
- Color TFT display
- 4 Channels for 4-Wire
- 32 Talk channels for 32 Talk keys, 32 Call buttons
- GPIO, Relay, Opto, PoE IN x 1, LAN x 2
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- On a Key, 20 Key Panels and GENIE Group Conference ch. can be allocated
- WAN Link, Line Router and IFB communications in configuration
- PoE IN and 12V DC dual power

IP Key Panel | GRP16

- 1U type Key Panel
- Color TFT display
- 4 Channels for 4-Wire
- 32 Talk channels with 16 Talk keys, 16 Call buttons
- GPIO, Relay, Opto, PoE IN x 1, LAN x 2
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- On a Key, 20 Key Panels and GENIE Group Conference ch. can be allocated.
- WAN Link, Line Router and IFB communications in configuration
- PoE IN and 12V DC dual power

IP Key Panel | GDP16

- Desk type Key Panel
- Color TFT display
- 4 Channels for 4-Wire
- 32 Talk channels with 16 Talk keys, 16 Call buttons
- GPIO, Relay, Opto, PoE IN x 1, LAN x 2
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- On a Key, 20 Key Panels and GENIE Group Conference ch. can be allocated.
- WAN Link, Line Router and IFB communications in configuration
- PoE IN and 12V DC dual power

IP Key Panel | GRP8-12V

- 1U type Key Panel
- 4 Channels for 4-Wire
- 16 Talk channels with 8 Talk keys, 8 Volume switches
- GPIO, Relay, Opto, PoE IN x 1, LAN x 2
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- On a Key, 20 Key Panels and 5 GENIE Group Conference ch. can be allocated
- WAN Link, Line Router and IFB communications in configuration
- PoE IN and 12V DC dual power

IP Key Panel | GDP4

- Desk or Wall attached Key Panel
- 4 Talk channels with 4 Talk keys
- Built-in loudspeaker and an either Gooseneck mic. or Headset
- On a Key, 20 Key Panels and 5 GENIE Group Conference ch. can be allocated
- WAN Link, Line Router and IFB communications in configuration
- PoE IN x 1
- Optional desk and wall brackets

GENIE DEVICES

GENIE Line Router | GLR4

- LINE audio routing to 128 Key Panels flexibly
- 4 Channels for 4-Wire
- GPIO, PoE IN x 1, LAN x 2
- PoE IN and 12V DC dual power
- GLR4 in Master Mode – Without a Base Station, configure a wired intercom system with Key Panels and IP Beltpacks and provide 5 GENIE Group Conference channels to the Genie IP devices.

GENIE WAN Link | GWL

- Support for Remote Connections of GENIE devices through an internet
- 6 Full-duplex communication channels per WAN Link
- 4 Channels for 4-Wire
- GPIO, PoE IN x 1, LAN x 2
- PoE IN and 12V DC dual power

Dante/AES67/USB Audio Interface | GAIF

- USB or Dante/AES67
- 4 x 4 audio channels
- 2 x USB audio ports
- 2 x External LAN, PoE IN x 1, LAN x 2
- 12V DC dual power

IP Beltpack | IBP10

- 8 Talk channels with 4 Keys
- 1 x PoE IN and 1 x PoE OUT
- 6pin connector headset or TRRS ear set
- Call tone and vibration

Wireless Beltpack | BP850 & BP851

- 5 Group Conference channels
- BP850 – 2 Groups simultaneous communication with 2 Keys
- BP851 – 4 Groups simultaneous communication with 2 Keys
- Beltpack in Master Mode – Communications without a Base Station
- Pairing with 5 Base and a Base selection from the Beltpack's screen
- Call tone, Key lock
- Ni-MH rechargeable batteries or AA Alkaline batteries

Wireless Receiver | WR850

- Wireless IFB Receiver that operates with GENIE and LT150 Mobile System
- Internal antenna
- 3.5mm jack earphone connection
- 5 positioned navigation switch
- Rechargeable battery or AA Alkaline batteries
- Neck strap or Belt clip

GENIE ACCESSORIES

Double muff headset | LSH-S125D

Single muff headset | LMH-125D

Light weight headset | LMH-10

Neck worn ear set | LNH-20D

Earphone | LME-880

Tube type ear set | PTE-850

Headset Model	Ear Type	Microphone Type	Impedance Mic/Earpiece	Connector Type
LSH-S125D	Double	Dynamic	1.5 K / 32 Ohm	6-pin mini-DIN
LMH-125D	Single	Dynamic	600 / 32 Ohm	6-pin mini-DIN
LMH-10	Single	Dynamic	200 / 32 Ohm	6-pin mini-DIN
PTE-850	Single	Electret	2.2K / 32 Ohm	6-pin mini-DIN
LNH-20D	Single	Dynamic	200 / 80 Ohm	6-pin mini-DIN
LME-880	Single	-	- / 32 Ohm	3.5ØTRRS

GENIE ACCESSORIES

Gooseneck microphone

- GM 26 : 7.9 (454mm) – 26.2inch (665mm) telescoping
- GM 8 : 7.58inch (192mm)

Rechargeable battery | BAT50

- Ni–MH rechargeable battery for Beltpacks
- Complimentary battery sled for AA Alkaline batteries

Battery charger | BATCHG125

- 7 ports battery charger
- 5 ports for charging batteries which are equipped in the Beltpacks and 2 ports for charging batteries
- 4 hours for full charging

Battery charger | BATCHG225

- 8 ports battery charger
- 8 ports for charging batteries and 8 ports for storing batteries
- 4 hours for full charging

Beltpack pouch | BPPCH100

- Robust and soft silicon pouch for the Beltpack protection
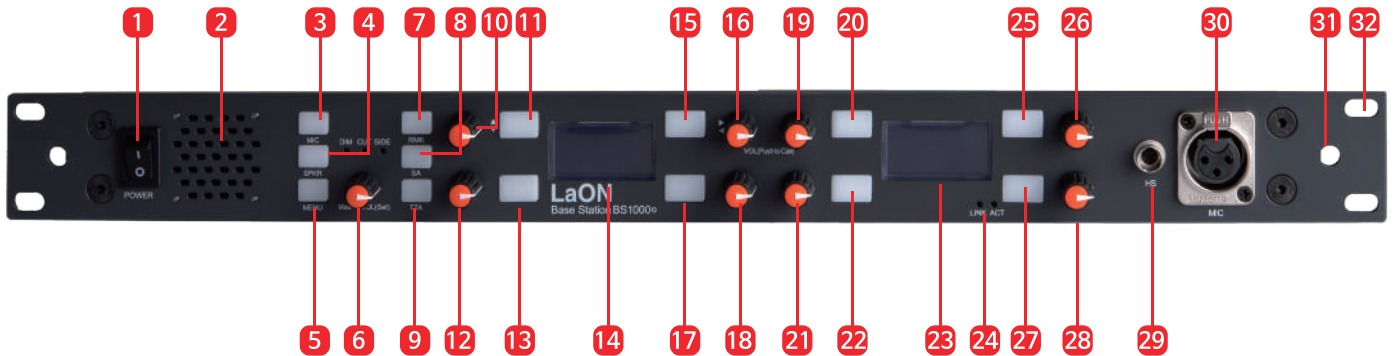
Antenna holder | RHD1000

- A designated holder for Remote Antenna and Repeater
- Installable on the wall, camera tripod and stand
- LAN RJ–45 Neutrik connector on the bottom
- Optional 'L' shape additional bracket available

BS1000 **BASE STATION**

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FRONT

01 Power switch	**12** CH3 Volume, push to call
02 Loudspeaker	**13** CH3 Talk button (LED)
03 MIC on/off button (LED)	**14** Display screen 1
04 Loudspeaker on/off button (LED)	**15** CH2 Talk button (LED)
05 MENU button (LED)	**16** CH2 Volume, push to call
06 Master Volume and select DIM, CUT, Sidetone	**17** CH4 Talk button (LED)
07 RMK button (LED)	**18** CH4 Volume, push to call
08 SA button (LED)	**19** CH5 Volume, push to call
09 TTA button (LED)	**20** CH5 Talk button (LED)
10 CH1 Volume, push to call	**21** CH7 Volume, push to call
11 CH1 Talk button (LED)	**22** CH7 Talk button (LED)

23 Display screen 2
24 LEDs for LAN status
25 CH6 Talk button (LED)
26 CH6 Volume, push to call
27 CH8 Talk button (LED)
28 CH8 Volume, push to call
29 Headset connector
30 Gooseneck microphone connector
31 Antenna mounting hole
32 Ear for rack mounting

REAR

01 Antenna	**11** 4-Wire channel D input	**21** 48VDC
02 2-Wire NULL control	**12** 4-Wire channel D output	**22** 48VDC for duplex
03 2-Wire channel A	**13** SA	
04 2-Wire channel A	**14** Multi-Sync	
05 2-Wire channel B	**15** Antenna	
06 2-Wire NULL control	**16** PC PROG	
07 4-Wire channel A	**17** Relay, Opto, GPIO	
08 4-Wire channel B	**18** Daisy-chain PoE LINE 1	
09 4-Wire channel C input	**19** Daisy-chain PoE LINE 2	
10 4-Wire channel C output	**20** PoE input	

GENIE
WIRELESS
IFB RECEIVER

Scalable yet cost efficient
Magic wish Intercom

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GENIE SOLO | BS1000 Full Configuration

Partyline
2Wire

GCMV2

GENIE

Base Station

BS1000

IP Beltpack   IBP10

RA100DW   RA100   RA100
Remote Antenna

WR850

BP850   Up to 128
Wireless Beltpacks
Or IFB Receiver

4 x 4Wires

Key Panel

GRP16

Line Router

4 x 4Wires

GLR4

WAN Link

Console

GWL

Router

WAN Link

WAN Link

WAN Link

WAN Link

WAN Link

WAN, LTE
Internet

Key Panel

GRP32

GRP16

GRP8-12V

Cue Light

Walkie-talkie

Key Panel

GRP16

GRP8-12V

GRP8-12V

GDP4

Key Panel

GDP16

Dante/USB Audio interface

USB

Dante A/V device   PC   M

4-Wire
LAN
PoE In