



Wireless Full Duplex Intercom System Base Station

FDI-BS 350

Users' Manual

Please read the manual carefully before operation

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Chapter 1 Item list

The package contains the following items. If there is any damage or loss, please contact the dealer.

No	Item	Qty / PCS
1	Base station	1
2	Power cable	1
3	N-type antenna	1
4	User Guide	1
5	Configuration cable	1
6	Fixture screw for base station	4

Chapter 2 Preparations

2.1 Installation

The FDI-BS 350 wireless intercom system and accessories could be installed in standard chassis, box, and cabinet.

2.2 AC Input Power Requirements

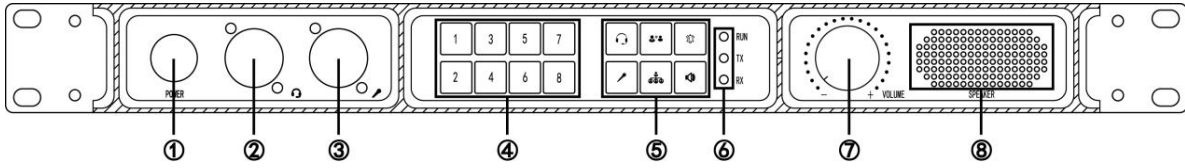
FDI-BS 350 consists of a switching power supply, The operating voltage of the device is AC 110V/220V, it should be earthed correctly to ensure safety.







2.3 Grounded

Well grounded is required, power plug has to be connected to a grounded receptacle. Otherwise it may cause permanent damage to the device.

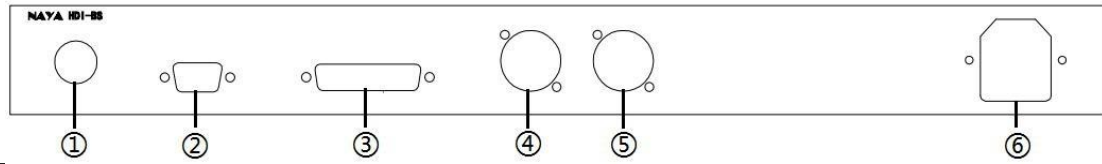
Chapter 3 Indicators and Interfaces

3.1 Front Panel



No.	Item	Description
1	Power button	Press the Power button, the button light is on and the device is started. Press again the device is turned off.
2	Headset interface	External cannon-type headset
3	MIC interface	External gooseneck shaped microphone
4	Digital keypad (1-8)	You can talk to any person or groups no more than 8 at the same time by pressing certain digital buttons.
5		Use headphone to speak and listen.
		Use gooseneck shaped microphone to speak
		Belpacks isolated mode. Turn on the button light, all belpacks are unable to talk with each other except base station.
		Group mode. Turn on the button light, now the digital keypad numbers indicate group numbers. Each group could talks internally, but unable to talk with other groups.
		Base station notices belpacks. The selected belpacks screen will flash when pressing the key continuously.
		Base station speaker button. The speaker is turned on when the button light is on.
6	LED light	RUN light, the light flashes slowly when the device is working normally. When the light is off, the device is not working properly. Please contact the after-sales services.
		TX light. The TX light flashes when the base station sends voice signal / tally signal / control signal.
		RX light. The RX light flashes when the base station receives the signal.
7	VOLUME	Adjust volume of the headset/speaker. Screw clockwise to enlarge volume.
8	SPEAKER	When using a gooseneck shaped or handheld microphone, sound could be played by SPEAKER.

3.2 Rear Panel



No.	Item	Description
1	Antenna connector	Connected with external N-type antenna
2	COM port	DB9 connector. It is able to be connected with computer by configuration cable.
3	TALLY connector	DB25 male connector for GPI tally input.
4	AUX IN	3-pin cannon receptacle connector
5	AUX OUT	3-pin cannon receptacle connector
6	Power receptacle	AC 110/220V Power receptacle

Chapter 4 Cable Connection & Interface

4.1 Headset Connector

When the front panel Headset light is on, it means that the headset function is enabled, and the user is able to speak and listen.

4.2 MIC Connector

When the front panel MIC light is on, it indicates that the gooseneck shaped microphone input function is enabled. The user is able to speak.

4.3 ANT Antenna Interface

Connect the antenna to the ANT connector on the rear panel. Place the antenna correctly after installation.

4.4 COM Port

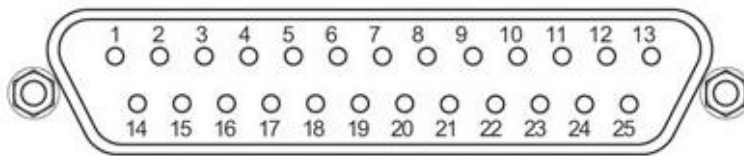
This port is to be connected with computer by a data configuration cable. You could

change configurations, such as channel.

It also supports tally signal input with RS232/RS485/RS422 type.

4.5 Tally Connector

Connect video switcher via dedicated Tally cable. This connector supports GPI type tally input.



Pin 1-12 indicates PGM/red signal, pin 14-25 indicates PVW/green signal, pin 13 is GND.

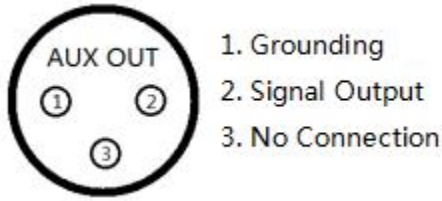
Dedicated tally data cable is required by certain brand and model/type of video switchers. It is recommended to use the corresponding tally data cable made by the manufacturer. When working with a different switcher, it is advised to confirm with the supplier about the tally data cable mode. Improper use of the data cable or incorrect connection may cause permanent damage to the device.

4.6 AUX IN



3-pin cannon receptacle connector. The input level of the analog speech signal shall be 1Vrms.

4.7 AUX OUT





3-pin cannon connector. The input level of the analog speech signal shall be 1Vrms.

4.8 Power Connection


Each unit is attached with a power cable, which is used to connect AC 110V/220V power supply with grounded receptacle.

Chapter 5 Basic Operations (Calling process)

5.1 Introduction to call operation

Press  or  button of base station, the lights are on. The base station could talk through headphone or microphone. Press again, the lights are off. The base station only receive audio signal.

5.2 Call Selected Belt-packs

Press  button, make sure the light is off. Now the number 1 to 8 indicates 8 belt-packs. You could choose one or more belt-packs to speak with.

5.2.1 Belt-packs Selected

Press one or more digital keypad buttons of 1-8 on the base station, the button lights of the selected belt-packs are on.

All selected belt-packs and base station could talk with each other. (Refer to Section 5.4)


5.2.2 Belt-pack Unselected

The base station could turn off one or more of the digital keypad buttons 1-8.

The unselected belt-packs could send a voice signal request to base station, but cannot send or receive voice signals. The flashing light on the base station indicates that the corresponding belt-pack is on the call.

5.3 Group Calling

In a specific scenario, the belt-packs need to be divided into many groups according to the department. All belt-packs of a group could only talk internally without disturbing other groups.

Push  button, the 1-8 number buttons indicate 8 groups, and the device supports up to 8 groups. Push the button again to exit the group mode.


5.3.1 Groups Selected

Base stations could talk with one or more groups by turning on corresponding digital button lights. All belt-packs of selected groups could talk with base station and talk with each other in the same group, but could not talk with other which in different group.



5.3.2 Groups Unselected


Base stations could disable one or more groups by turning off corresponding digital button lights. An unselected group could talk internally but unable to talk with base station.

5.4 Isolated Mode


Isolated mode could be enabled by turning on the  button light. Now the belt-packs could not talk with each other except base station.

5.5 Change Settings

Press  button down and hold for 5 seconds, and release it up, to enter the configuration mode. In configuration mode, Press  button will switch to next

menu, press  button to change setting. The menu includes channel setting, background noise level, noise suppression level, reset all settings and exit configuration mode. After change you should restart the base station to load the new configurations.

5.5.1 Channel Setting

The base station includes 90 channels, press  button to change channel as voice hint. The setting will be saved while no continue operation within 4 seconds.

5.5.2 Background Noise Level

The base station may transmit voice and background noise to belt-packs. Base station could suppress the background noise at a certain level. The default setting is level 1. You could change the level by pressing the button. Notes that the default settings are well tested, if not necessary please do not change the setting. Otherwise the voice may be interrupted with wrong setting.

5.5.3 Noise Suppression Level

The setting allows the base station to suppress a certain level of the background noise transmitted from the belt-packs if they are not speaking. The default setting is level 5. (Suppress the noise lower than 5%. The level is adjustable by clicking the setting button.

Chapter 6 Optional Accessories

No	Item	Description
1	Cannon type single side headset	Designed specially for intercom, it help to suppress background noise effectively.
2	Cannon type double side headset	Designed specially for device, it help to suppress background noise effectively.
3	Gooseneck shaped microphone	Designed specially for device, it help to suppress background noise effectively.
4	Configuration cable	For change settings by computer.
5	Tally cable	Designed specially for a certain mode of

		video switcher.
6	Attenuator	Sometimes some video switcher, vidicom, SDI cables, HDMI cable or mixer with bad EMI design, may be influenced by RF signal. You have to attach an attenuator to base station to compatible with them. While the working distance will be short.

Chapter 7 Maintenance and Cleaning

Please read the following contents carefully in order for smoothly operation, long service life, better daily maintenance and cleaning.

Maintenance

- Do not use hard material to puncture or scrape device.
- Do not put device in hard corrosive environment that may damage circuits.
- Do not break the antenna.

Cleaning

- Please wipe the dust on the device with clean dry towel or brush.
- If the device is dirty, please clean with neutral detergent and non-woven fabric, do not use detergent, alcohol, spray and other chemical agents to avoid the damage of the device. Make sure that the device is dry thoroughly before using.

Chapter 8 Quality Commitment and Maintenance Terms

We promises warranty services for material and manufacturing process defect under normal operation since purchase date.

1. Warranty Scope and Duration

12 months for the base station

2. Warranty Claim

You have to provide product warranty card or valid purchase invoice to apply repair. The product mark should be kept clean and intact during the warranty period.

Warranty Card

In order to protect your benefits, please fill in the following table carefully and keep it properly as a evidence for maintenance.

Dealer' s information			
Product model		Date of sale	
Dealer' s name		Contact number	
User' s information			
User' s name		Contact number	
Address		E-mail	

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