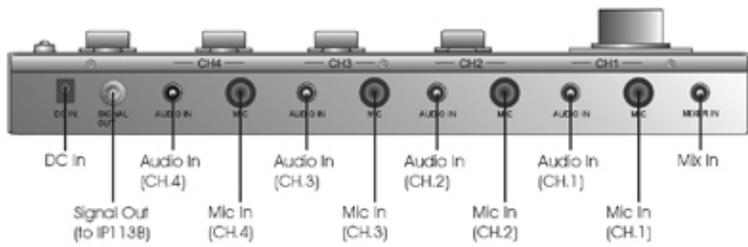


### 3c Transmitter Control Panel (IR-405)

(REAR SIDE)

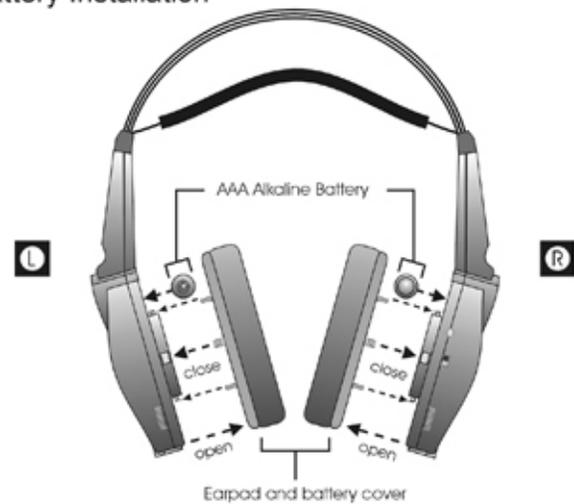


(LEFT SIDE)



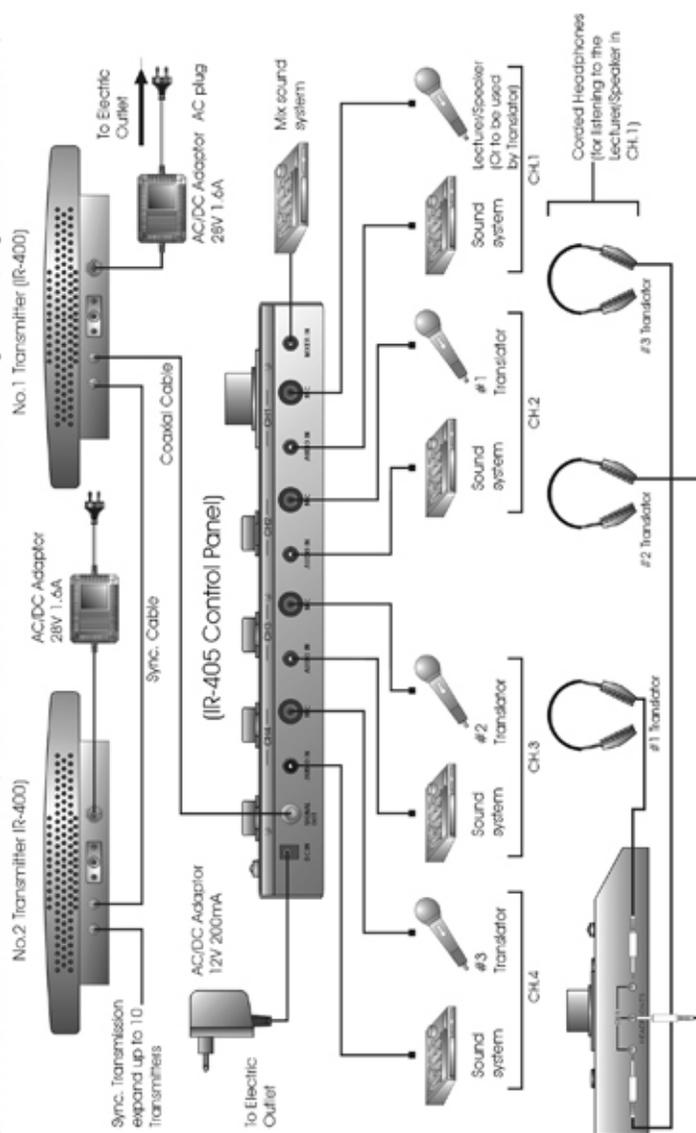
3 Headphone jacks (For optional use with corded headphones to listen or monitor only to CH.1 audio signal e.g. Interpreters in CH.2, CH.3 and CH.4 to listen to the speaker in CH.1)

### 4a How to Use The Infrared Headset Receiver (IR-410)- Battery Installation

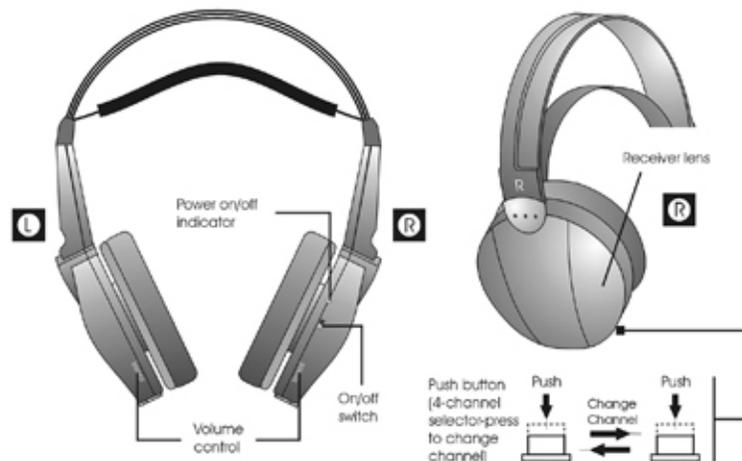


### 5 How To Set Up And Expand The Transmission System

(Make sure to connect the AC/DC Adaptor to the Transmitter FIRST before connecting the AC plug to the electric outlet)



### 4b Headset Receiver Operation



### 6 System Package

- Transmitter system
- 1 X Control Panel
- 1 X Transmitter
- 1 X AC/DC Adaptor with Cable of 2 Meters (for Control Panel)
- 1 X AC/DC Adaptor with Cable of 6 Meters (for Transmitter)
- 1 X 50 ohm Coaxial Cable with Cable of 10 Meters (Control Panel to Transmitter)
- 4 X Audio RCA Cable [Control Panel to Sound System]
- 4 X RCA to 6.3mm connection plugs
- 4 X RCA to 3.5mm connection plugs
- Headset Receiver
- (Quantity of Headset Receiver depends on requirement of each project)

### 8 Optional Item

- 2 x AAA Alkaline Battery (For Headset Receiver)
- Dynamic Microphone (IMP 600 ohm)
- Headphone with cable
- Tripod

### 7 Troubleshooting

- |                                   |   |
|-----------------------------------|---|
| Input level detector not lighting | - Increase output level on the sound system. (Light should flash when level peaks.)     |
| No sound                          | - Make sure the sound system is connected properly.                                     |
| Sound is low                      | - Make sure transmitter control panel power cords are connected properly.               |
| Poor sound quality/distortion     | - Make sure the sound system is on.   |
| Intermittent noise                | - Make sure receiver has working batteries.   |
|                                   | - Make sure receiver is set to appropriate channel.                                     |
|                                   | - Increase output level on the sound system.  |
|                                   | - Increase volume on receiver.  |
|                                   | - Reduce output level on the sound system.  |
|                                   | - Install fresh batteries in receiver.  |
|                                   | - Make sure receiver lenses are not obstructed.   |
|                                   | - Receiver is out of optimum range. Stay within 30 m/100ft and in sight of transmitter. |
|                                   | - Clear path from transmitter to receiver.  |
|                                   | - Avoid heavy light saturation in the room.   |
|                                   | - Avoid direct sunlight.  |

# NADY IR SYSTEM 400

## 4 CHANNEL PROFESSIONAL INFRARED TRANSMISSION SYSTEM

Congratulations on purchasing the Nady IR System 400. Offering 4 channels of independent programming, the IR System 400 is the professional choice for reliable, easy-to-use and affordable multi-language and simultaneous translation applications. It utilizes advanced state-of-the-art PPM (Pulse Position Modulation) IR technology (@300-900KHz). The 4-channel signal modulates a sequence pulse code as a sub-carrier which then modulates the infrared carrier directly. This innovative technique offers clearer audio and superior interference-free transmission than earlier narrow-band FM modulated IR systems. The IR System 400 consists of the IR-400 4-channel emitter/transmitter, the IR-405 control panel, and the IR-405 4-channel selectable (A/B/C/D) headphone receiver.

### 1 Features

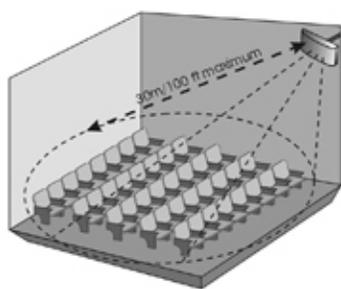
- 4 channel selectable.
- 4000 sq. ft (370 sq. m.) coverage. Easy daisy chaining for greater coverage.
- PPM IR technology insures interference-free reception
- Easy set-up, installation and operation
- Unlimited multi-user capability with comfortable headphones and personal volume controls

- Control panel with monitor outputs and built-in ALC
- High gain emitter/transmitter with built-in amplifier

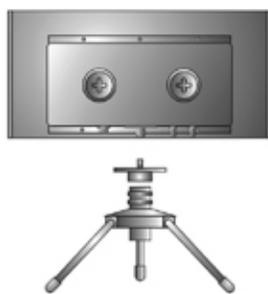
### Installation

#### 2a Where To Mount it

Point toward listening area:



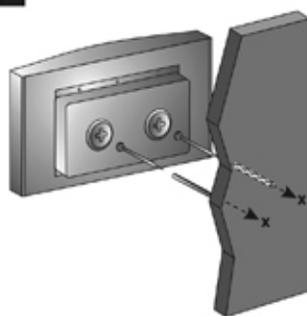
#### 2b Table Mount



#### 2c Floor Mount



#### 2d Direct Wall Mount



### Specification

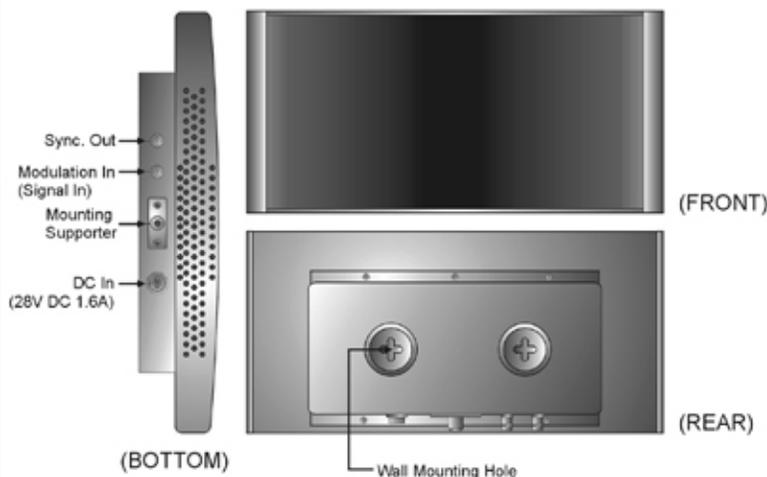
#### Control Panel/Transmitter (IR-405/IR-400)

Operating voltage	: Control Panel(IP113A)	: 12V
	: Transmitter(IP113B)	: 28V
Current drain	: Control Panel(IP113A)	: 150 mA
	: Transmitter(IP113B)	: 1500 mA
Carrier wave length (infrared)		: 850nm
Sub-carrier-PPM spectrum		: 300-900KHz
Input impedance	: Audio in	: 18K ohm
	: Mic in	: 1.3K ohm
Input level of LED on	: Audio in	: 80 mV
	: Mic in	: 1 mV
ALC range (audio in)		: 120 mV-5V
Maximum operating distance		: 30 meters

#### Infrared Headset Receiver (IR-410)

Operating voltage	: 3V (1.5V X 2)
	: 2 AAA Batteries
Current drain	: 25mA
Max. output power	: 5mw
T.H.D.	: 2%
S/N Ratio	: 45db
Frequency Response	: 40-3000 Hz
Operating time (alkaline battery)	: 40 hours

#### 3a General Outline ---- Transmitter (IR-400)



#### 3b Transmitter Control Panel (IR-405)

