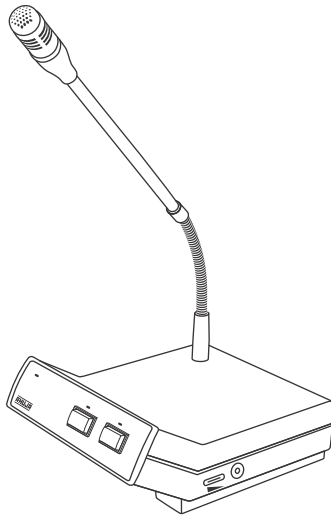
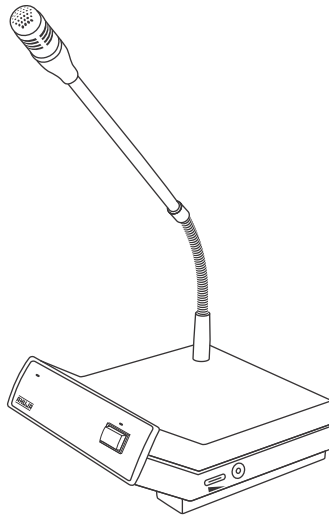




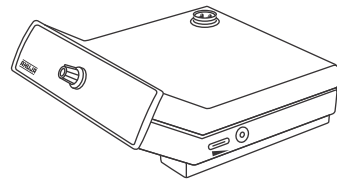
## Central Mixer Amplifier



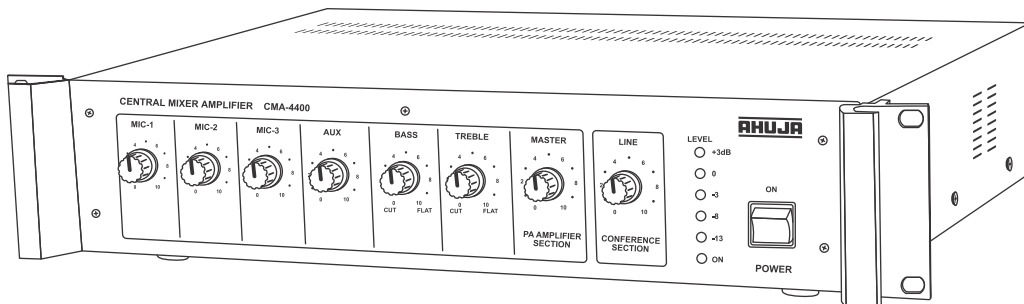
CMC-4100  
Chairman Unit



CMD-4200  
Delegate Unit



CMS-4300  
Secretary Unit



CMA-4400  
Central Mixer Amplifier

- ◆ Thank you for purchasing the AHUJA Central Mixer Amplifier.
- ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA Central Mixer Amplifier.
- ◆ Please retain this manual for future reference.

## • Safety Instructions

**Read the Instructions:** Please read all the instructions in this section carefully before installation or use of the product. All the safety instructions must be followed.

**Retain the Instructions:** Please retain this Instruction Manual for future reference.



This symbol, wherever it appears, alerts you to the presence of uninsulated hazardous voltage that may be sufficient to constitute a risk of electric shock. External wiring to any terminal marked with this symbol must be done by a trained and instructed person only.



This symbol, wherever it appears adjacent to a component, alerts you that the concerned component can only be replaced by another of the exact same specifications.

### WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

### CAUTIONS

**Water & Moisture:** To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set. Do not insert or remove the AC mains plug with wet hands.

**Power Source:** The voltage & frequency of the AC mains supply, and the voltage of the external battery, (if applicable) to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

**Power Cord Protection:** Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

**Operation on Generator:** When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

**Ventilation:** This set should be situated so that its location or position does not interfere with its proper ventilation. Do not cover the ventilation holes / slots. Do not insert or drop anything into the ventilation holes / slots.

**Stability:** This set must be kept in a stable and flat horizontal position, and never in a tilted position. Do not place this set on an unstable stand, tripod, bracket or mount. Do not use attachments which are not supplied or explicitly recommended by the manufacturer.

**Cover Strip:** The cover strip of the 100V / 70V audio output terminal strip, and of any other high voltage output terminal strip, must be replaced after making connections. Failure to do so may result in exposure to hazardous voltages.

**Earthing:** This set must be earthed properly before use. A wire from the Earth terminal on the rear panel must be connected to electrical earth.

**Cleaning:** Disconnect this equipment from the AC mains and external battery before cleaning. Clean with a damp cloth, but do not allow any liquid to enter the set. Do not clean with liquids or aerosols.

**Exposure to Heat:** Do not touch the heatsinks while the set is working.

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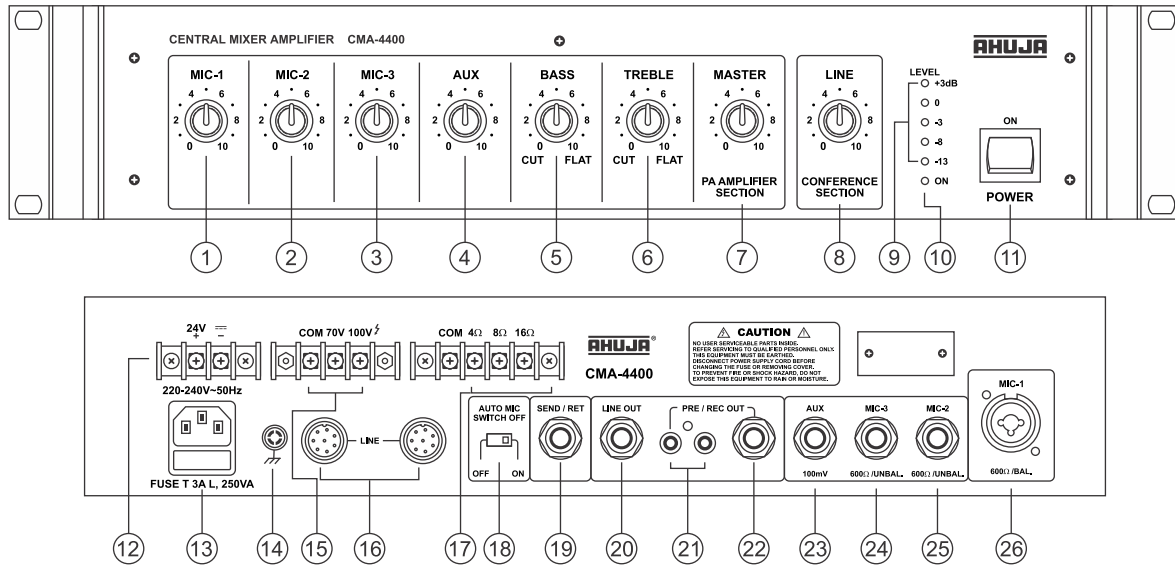
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## • Features / General Description of Product

- Conference System CM-4000 is a versatile and efficient mode of communication for a wide variety of discussion formats and seating arrangements.
- Each conference unit has a compact and attractive die cast aluminium cabinet.
- The chairman and delegate units are provided with highly sensitive electret condenser microphone for comfortable sharing by two delegates. The 16" long microphone is slim, sleek and unobtrusive. Mic ON status is easily visible by the glow of a bright and clear ring LED indicator. Since these microphones are often used close to the mouth, each microphone is supplied with a foam windshield which helps in reducing the breath noise and pop noise.
- Each conference unit provides crisp and clear sound from its speaker. A headphone output with volume control is also available for more attentive listening by the delegates.
- The conference unit's microphone can be automatically turned off if the delegate forgets to turn it off after completing the discussion.
- Chairman unit is provided with a Priority Switch. This switch, when pressed, generates a soft single tone chime and mutes all the active microphones.
- Secretary unit facilitates the recording and playback of messages, proceedings etc.
- The Central Mixer Amplifier operates on AC Mains and 24V DC battery. It is designed for both table-top use and 19" rack mounting.
- The Central Mixer Amplifier has a 50W PA Amplifier for sound reinforcement. SEND / RETURN jack is provided for connecting an external signal processor like feedback destroyer, compressor limiter, graphic equalizer etc.
- For large installations, the conference system can be expanded by using Conference Expansion Unit CMB-4500. For ease of mounting the Expansion Unit at any convenient location during an installation, two nos. of 'L' brackets have been provided alongwith.
- If an installation uses long lengths of interconnecting cables then it is recommended to use DC Injection Boxes CB-54 alongwith dedicated cables available as optional accessories.
- It is possible to interconnect the conference units in a bus bar arrangement through a number of Junction Boxes CB-45.
- Provision for automatic changeover from AC to Battery Operation ensuring continuity of program has been provided.
- Ease of operation, combined with service accessibility has been optimized in the design.

## • Part Name & Function of Each Unit

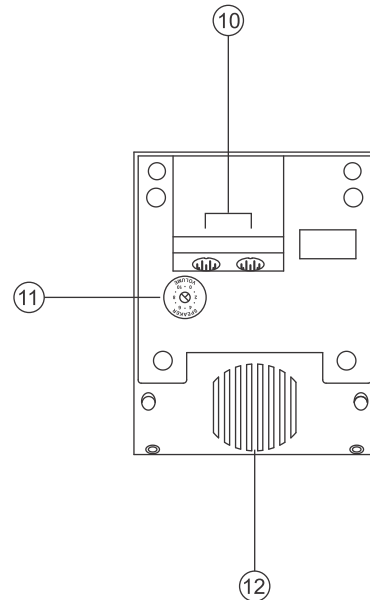
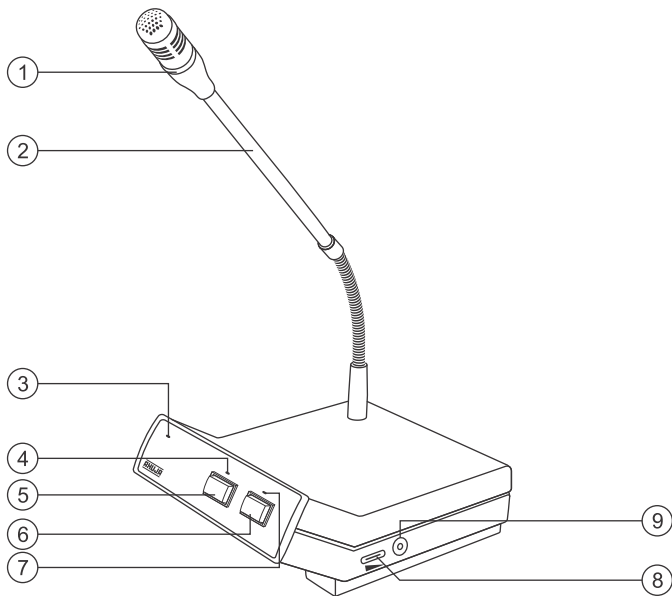
### Central Mixer Amplifier CMA-4400



1. **MIC-1 Volume Control**
2. **MIC-2 Volume Control**
3. **MIC-3 Volume Control**
4. **AUX Volume Control**
5. **BASS Control**  
For attenuating the signal level of low frequencies.
6. **TREBLE Control**  
For attenuating the signal level of high frequencies.
7. **MASTER Volume Control**  
For adjustment of the overall volume level from the built-in amplifier.
8. **LINE Volume Control**  
For adjustment of the overall volume level from the conference units.
9. **LED Array**  
This indicates the output level of the built-in amplifier.
10. **POWER LED**  
This LED glows when the amplifier is switched ON.
11. **POWER Switch**  
Push the top part of the knob to switch the amplifier ON. Push the bottom part of the knob to switch the amplifier OFF.
12. **Battery Terminal Block**  
For connecting two 12V Car Batteries in series (which becomes 24V) as standby power source.
13. **IEC Mains Socket with 3 Amp Fuse**
14. **EARTH Terminal**
15. **SPEAKER Terminal Block (70V, 100V)**  
For connecting speakers with 100V line matching transformers.
16. **8-Pin LINE Connectors**  
For connecting the conference units in a closed loop.
17. **SPEAKER Terminal Block (4Ω, 8Ω and 16Ω)**  
For connecting low impedance speakers.
18. **Auto Mic Switch Off Selector Switch**  
For selecting the facility of automatic 'Switch Off' for Delegate microphones.
19. **SEND / RETURN Stereo Jack Socket**  
For connecting an external signal processor like a feedback destroyer, compressor limiter etc.
20. **LINE Output Jack Socket**  
For connecting to a booster amplifier to obtain combined higher power output.
21. **PRE-AMP / RECORD Output RCA Sockets**  
For connecting to the AUX input of another amplifier or a MP3 recorder for recording purpose. Two RCA sockets are internally connected in parallel.
22. **PRE-AMP / RECORD Output Jack Socket**
23. **AUX Input Jack Socket**  
For accepting an unbalanced signal from an auxiliary source like a Tuner, MP 3 Player, Echo or Audio Mixer etc.
24. **MIC-3 Input Jack Socket**  
For accepting unbalanced signal from a low impedance microphone.
25. **MIC-2 Input Jack Socket**
26. **MIC-1 Input Combo Socket**  
For accepting balanced signal from a low impedance microphone through a male XLR plug as well as a 1/4" stereo plug.

## • Part Name & Function of Each Unit....

### Chairman Unit CMC-4100



#### 1. RING LED

This lights up when the microphone is switched ON by pressing TALK or PRIORITY switch.

#### 2. MICROPHONE

#### 3. LEVEL LED

This indicates the speech level through the microphone.

#### 4. PRIORITY LED

This LED glows when the microphone is switched ON by pressing PRIORITY Switch.

#### 5. PRIORITY Switch

On pressing this switch, the chairman can interrupt the conference as a chime tone is audible through the speakers of all the Delegate Units and the microphones of these units get muted. This allows the chairman to take precedence over the meeting. Priority switch is non lockable and has to be kept in pressed position while talking.

#### 6. TALK Switch

On pressing this switch once, the delegate microphone is switched ON alongwith the talk LED and the ring LED while the built-in speaker gets muted.

On re-pressing talk switch, the microphone is switched OFF and the built-in speaker gets active.

#### 7. TALK LED

This LED glows when the microphone is switched ON by pressing Talk switch.

#### 8. HEADPHONE VOLUME Control

For adjusting the output level from the headphone jack socket.

#### 9. HEADPHONE Jack Socket

For connecting a 3.5 mm stereo headphone plug.

#### 10. 8-Pin LINE Connector

For interconnecting the units through a 2.5m long 8-core shielded cable.

#### 11. SPEAKER VOLUME Control

For adjusting the output level from the built-in speaker.

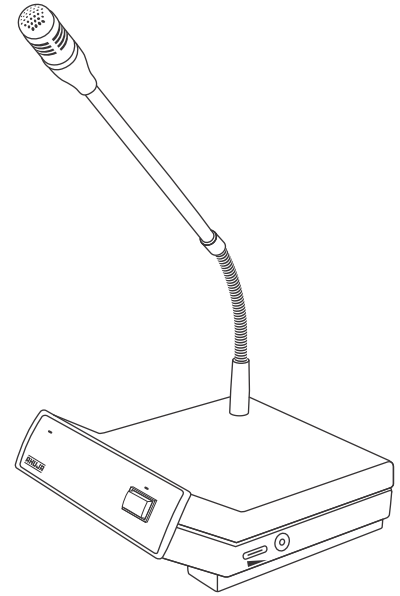
#### 12. SPEAKER

## • Part Name & Function of Each Unit....

### Delegate Unit CMD-4200

This unit is same as the Chairman Unit CMC-4100 with the exception of Priority Switch not being provided. Function of the parts of the Delegate Unit is similar to the description as for the Chairman Unit.

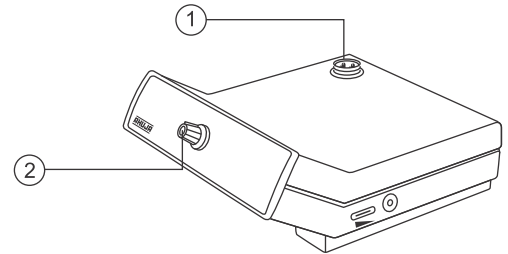
The highly sensitive electret condenser microphone and flexible, high quality gooseneck permit sharing of a Delegate Unit by two participants.



### Secretary Unit CMS-4300

This unit assists the secretary to record the proceedings of the meeting through a MP3 recorder and also listen to the discussions through its built-in speaker for taking notes. This unit also provides the headphone output with volume control.

Recorded messages or music can also be played through this unit to the other Delegate Units and the Central Mixer Amplifier.

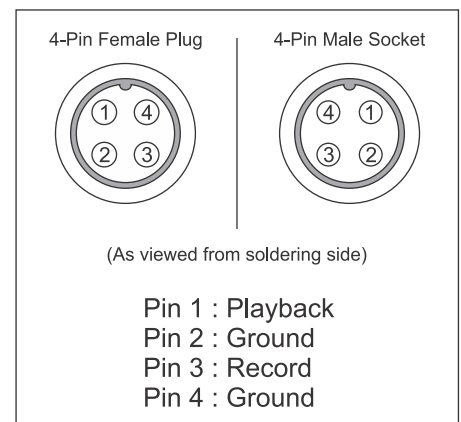
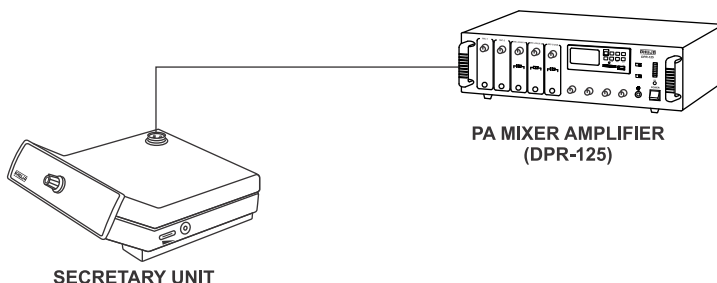


#### 1. RECORD / PLAYBACK Connector

This is a 4-pin male socket for connecting to the 'LINE IN' (RECORD) and 'LINE OUT' (PLAYBACK) of a PA mixer amplifier (DPR-125) recorder. A 4-pin female plug suitable for this socket is supplied along with the unit.

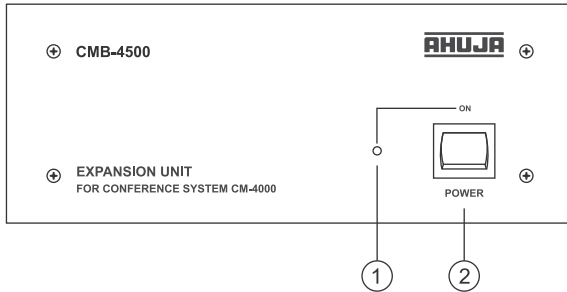
#### 2. SPEAKER VOLUME Control

For adjusting the output level from the built-in speaker.

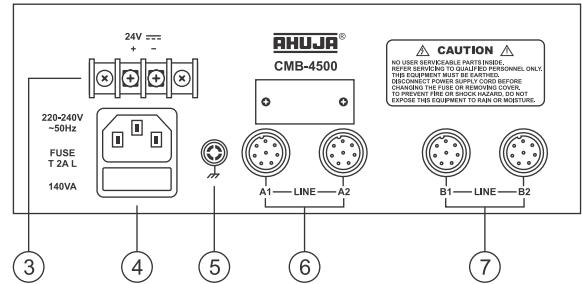


## • Part Name & Function of Each Unit....

### Conference Expansion Unit CMB-4500

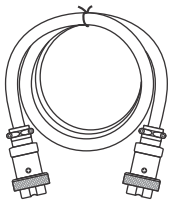


1. **POWER LED**  
This LED glows when the expansion unit is switched ON.
2. **POWER Switch**
3. **Battery Terminal Block**  
For connecting two 12V Car Batteries in series (which becomes 24V) as standby power source.
4. **IEC Mains Socket with 2 Amp Fuse**



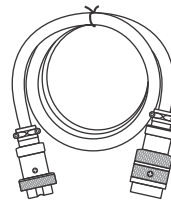
5. **EARTH Terminal**
6. **8-Pin LINE Connectors**  
For connecting the conference units in a closed loop.
7. **8-Pin LINE Connectors**  
For connecting the conference units in a closed loop.

### Cables & Connectors



Connection Cable  
**CC-46**

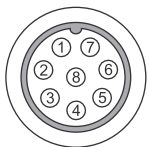
10m connection cable terminated with 8-pin female plugs on both ends.



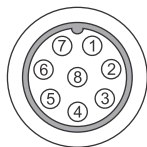
Extension Cable  
**CC-47**

10m extension cable terminated with 8-pin female plug at one end and 8-pin male plug at the other end.

#### 8-pin Female Plug

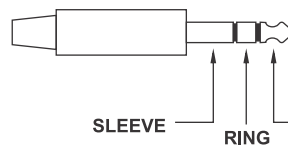


#### 8-pin Male Socket



(As viewed from soldering side)

- Pin 1 : +ve Supply
- Pin 2 : Ground
- Pin 3 : Mic Auto Off
- Pin 4 : Signal Out
- Pin 5 : Signal Out
- Pin 6 : Signal In
- Pin 7 : Signal In
- Pin 8 : Priority

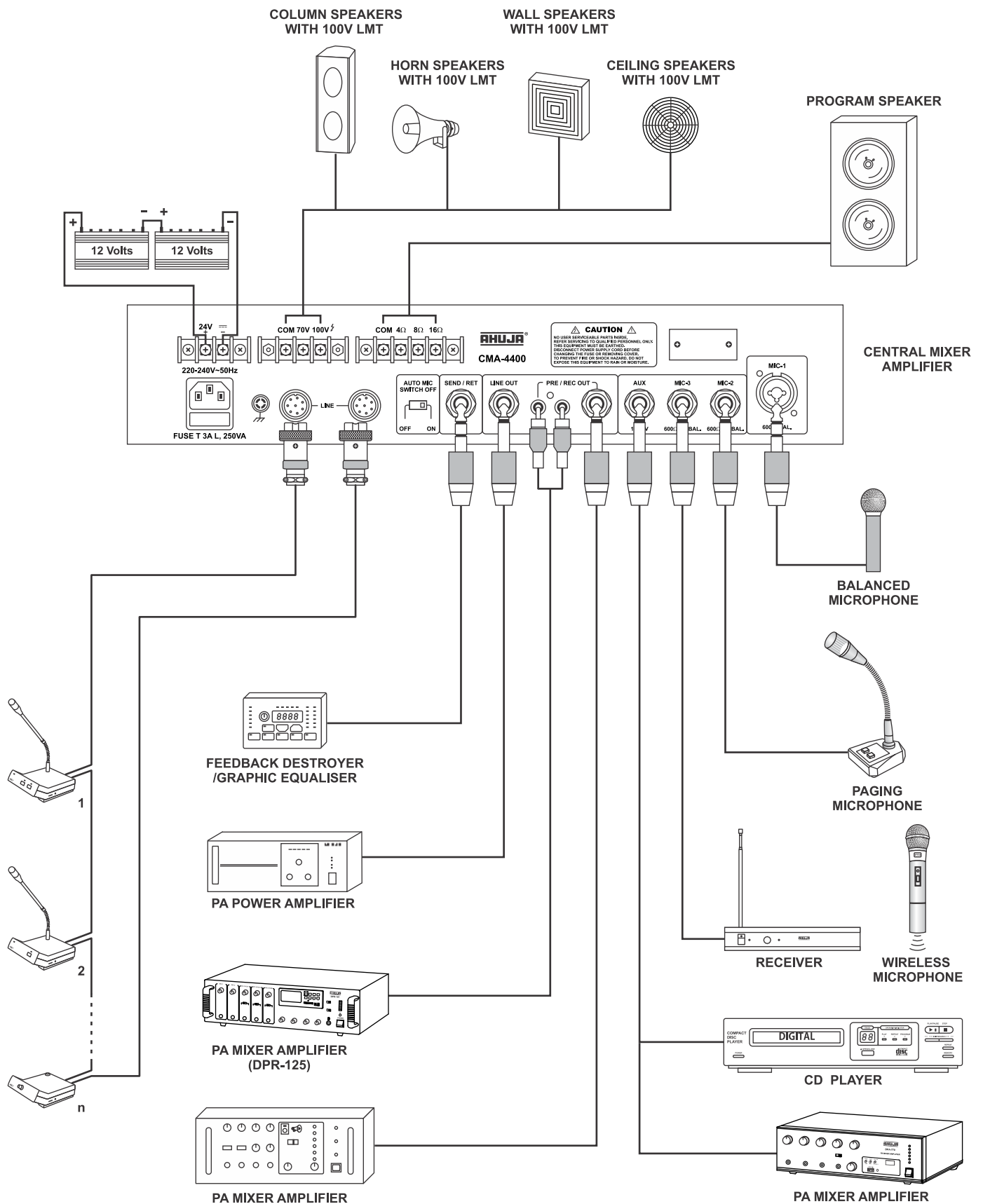


6.3mm (1/4")  
Stereo Phone Plug  
for Send/Return  
Application

- Tip : Send
- Ring : Return
- Sleeve : Ground



# • Interconnections



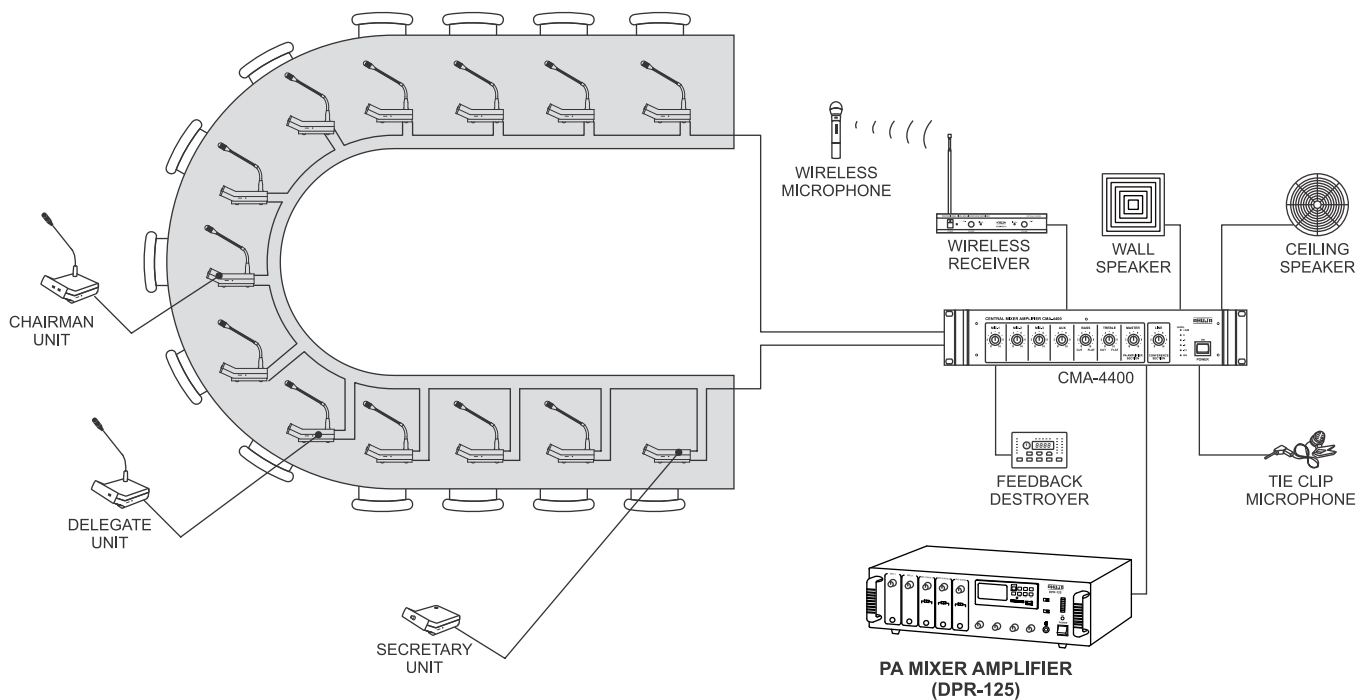
## • Typical Applications

### Basic Discussion Set-up

This shows an example of a typical small and medium sized venue such as Conference Room, Board Room, Meeting Room etc.

#### Recommended equipments are:

- |   |   |
|---|---|
| 1. Chairman Unit CMC-4100 . . . . . 1 no.           | 6. Ahuja MP3 Recorder . . . . . 1 no.                 |
| 2. Delegate Unit CMD-4200. . . . . m nos.           | 7. Ahuja Tie Clip Mic. . . . . 1 no.                  |
| 3. Secretary Unit CMS-4300. . . . . 1 no.           | 8. Feedback Destroyer . . . . . 1 no.                 |
| 4. Central Mixer Amplifier CMA-4400 . . . . . 1 no. | 9. Ahuja Wall Speaker & Ceiling Speaker . . . . n no. |
| 5. Ahuja Wireless Mic. . . . . 1 no.                | 10. Stereo Headphone/Earphone . . . . . m+2 nos.      |

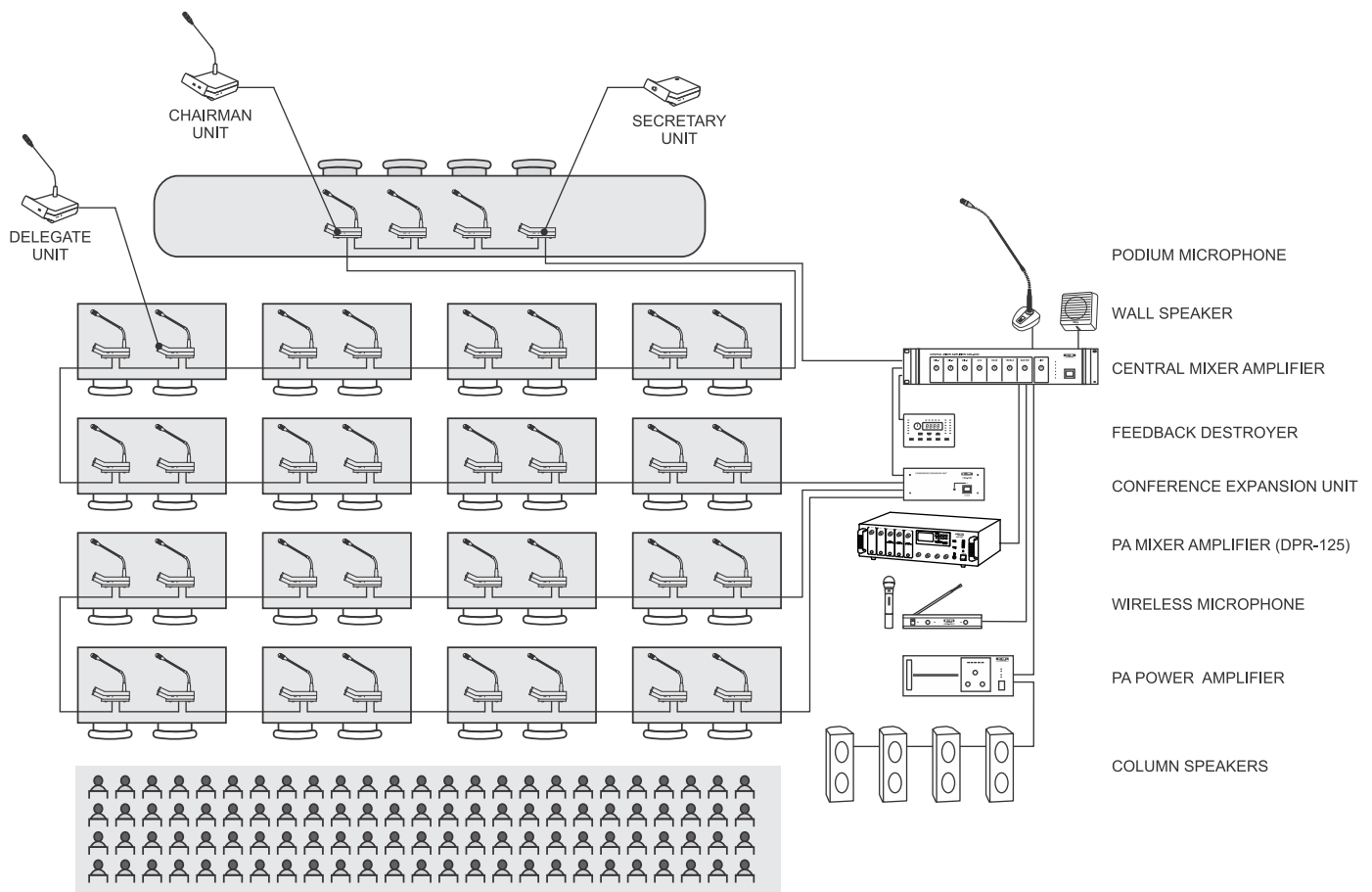


## Open Conference Set-up

This configuration is suitable for conducting open conference in a Convention Hall, Auditoria etc.

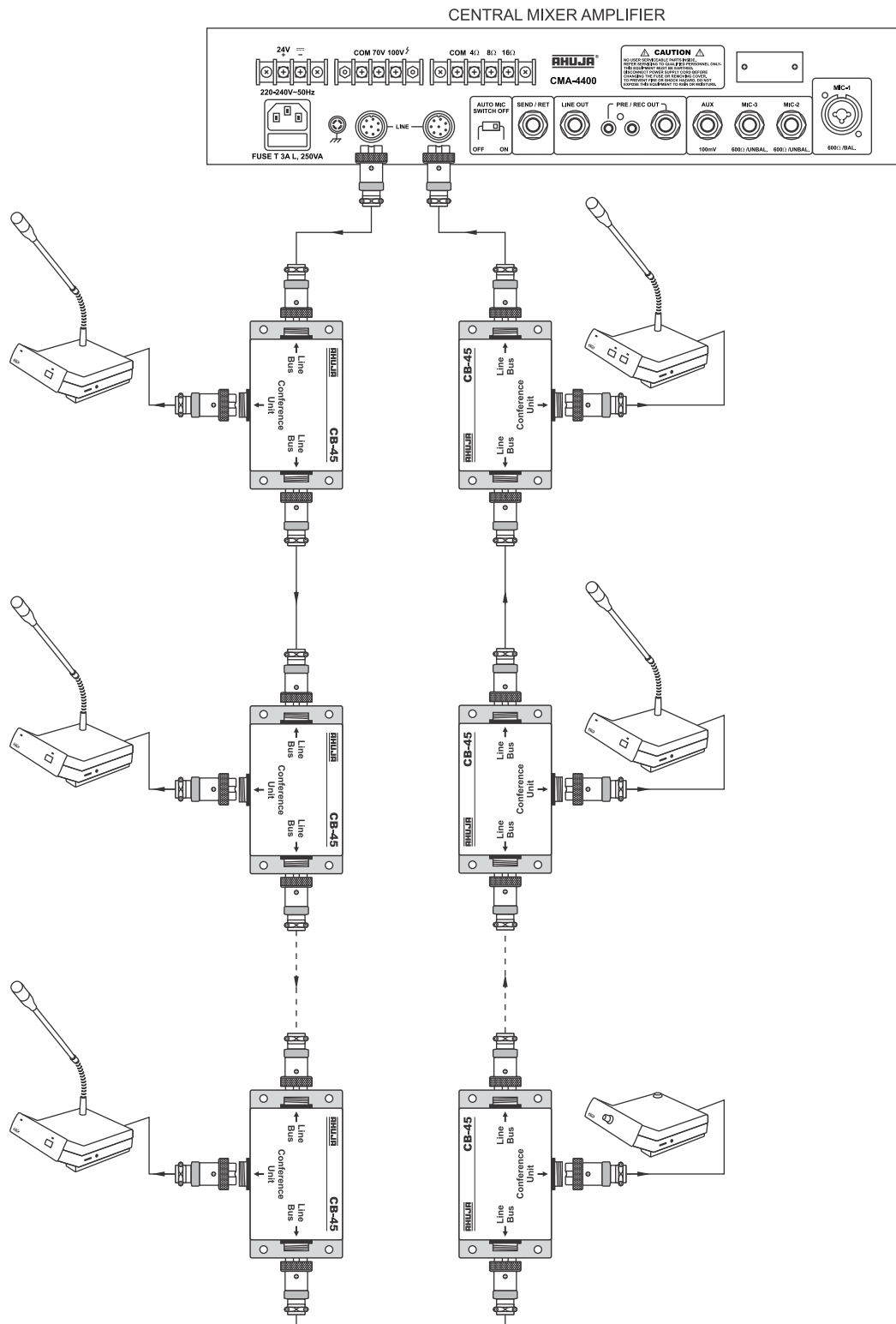
### Recommended equipments are:

- |   |  |
|---|--|
| 1. Chairman Unit CMC-4100 . . . . . 1 no.             | 8. Expansion Unit CMB-4500 . . . . . n nos.          |
| 2. Delegate Unit CMD-4200. . . . . m nos.             | 9. Ahuja PA Power Amplifier. . . . . 1 no.           |
| 3. Secretary Unit CMS-4300. . . . . 1 no.             | 10. Ahuja Column Speakers and Box Speakers. x nos.   |
| 4. Central Mixer Amplifier CMA-4400 . . . . . 1 no.   | 11. Ahuja Gooseneck Mic. . . . . 1 no.               |
| 5. Ahuja Wireless Mic. . . . . 2 nos.                 | 12. Ahuja Wall and Ceiling Speakers . . . . . y nos. |
| 6. Ahuja PA Mixer Amplifier (DPR-125) . . . . . 1 no. | 13. Stereo Headphone/Earphone . . . . . m+2 nos.     |
| 7. Feedback Destroyer . . . . . 1 no.                 |  |



## • Usage of Junction Box

- Some installations may require single cable connection from the conference unit to the main cable line (bus bar). This is possible by using Junction Box CB-45 for each unit. The interconnections can be done as shown below. Each Junction Box is supplied with a 2.5m cable which is terminated with 8-pin female plugs on both ends.



## • Description of Special Functions / Features

### ■ Automatic Mic Off Function

The microphone is automatically switched off after approximately 75 seconds if a delegate keeps it ON without making speech into it. When long pause in the speech is expected before hand or the ambient noise level is high, it is suggested to disable this function by placing 'AUTO MIC SWITCH OFF' switch of Central Mixer Amplifier in OFF position.

### ■ Priority Function

A priority switch on the Chairman's Unit has been provided for seeking attention of all the delegates during a conference. When priority switch is kept pressed, all the active microphones get muted and a single tone chime is relayed through all the speakers. Priority function gets withdrawn when the priority switch is released by the chairman.

### ■ Send / Return Function

This feature has been provided in the Central Mixer Amplifier for connecting an external signal processor like a feedback destroyer or a graphic equalizer unit. These external signal processors are ideal for those conference rooms / halls which are prone to feedback and howling problems. The external processor can be easily connected to Send / Return jack socket of the Central Mixer Amplifier through a 1/4" stereo jack plug.

### ■ Recording & Playback Function

The Secretary Unit facilitates recording of proceedings and playback of recorded messages. The proceedings of the conference can also be recorded by connecting a cassette recorder to PRE/REC Out jack socket of the Central Mixer Amplifier through a 1/4" mono jack plug.

### ■ Headphone Function

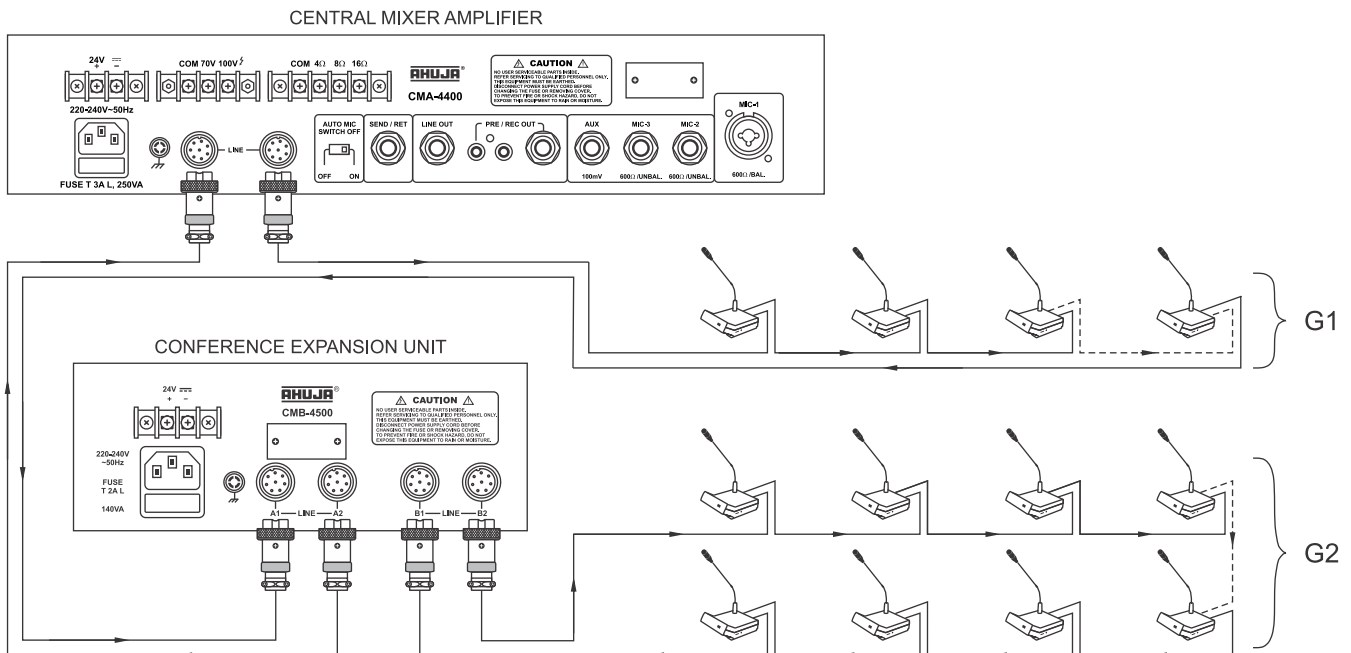
Each unit provides a 3.5mm stereo headphone socket along with a rotary volume control for adjusting the level of headphone output. The volume level of headphone is not affected by the setting of speaker volume control of the unit.

### ■ Built-in PA Amplifier

In certain situations, additional sound reinforcement through external speakers may be required. Hence, the Central Mixer Amplifier has been provided with a built-in 50W PA amplifier for powering these external speakers.

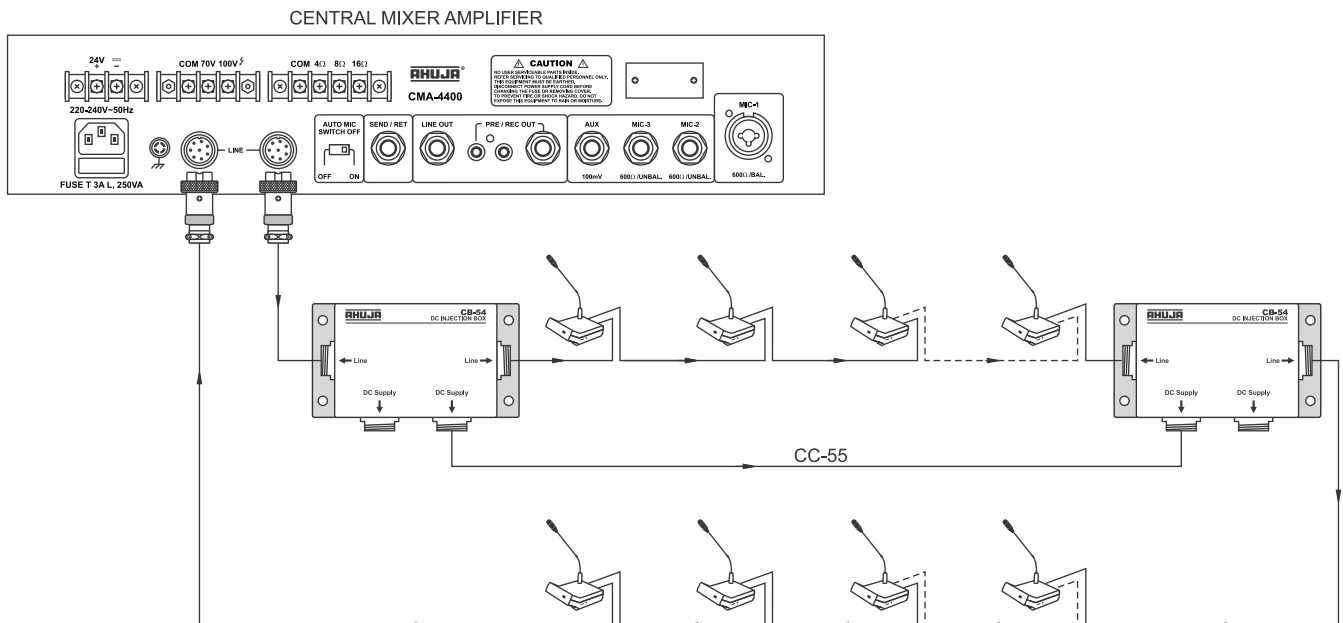
## • System Expansion

- The Central Mixer Amplifier CMA-4400 is designed to control up to 50 conference units. Since each delegate unit can be shared by two delegates, the system enables the participation of 100 delegates. In large installations, the number of conference units may exceed the controlling capacity of a single Central Mixer Amplifier CMA-4400. Therefore the capacity can be enhanced by expanding the system through Conference Expansion Unit CMB-4500.
- For example, if 70 Delegate Units are required, then two groups of 35 units each should be formed using one no. CMA-4400 and one no. CMB-4500. However, depending upon cable length and other factors, additional numbers of Expansion Unit CMB-4500 may be required.
- One such example is described below where the total number of conference units is equally divided in two groups namely G1 and G2. The conference units of each group must be connected in a closed loop.
- The group G1 starts from either of the two 8-pin LINE connectors of the Central Mixer Amplifier CMA-4400 and terminates at the 8-pin LINE connector A1 of the Expansion Unit CMB-4500. In order to close the loop, interconnect the 8-pin LINE connector A2 of Expansion Unit CMB-4500 and the vacant LINE connector of CMA-4400.
- The units of group G2 are connected between the 8-pin LINE connectors B1 and B2 of the Expansion Unit CMB-4500, thus forming a closed loop. The overall system gain can be adjusted by LINE level control of the Central Mixer Amplifier CMA-4400.
- If required, the sound reinforcement level should be enhanced by connecting external speakers to the Central Mixer Amplifier CMA-4400.
- Each Central Mixer Amplifier and Conference Expansion Unit comes with 10m of Connection Cable CC-46 and 10m of Extension Cable CC-47. The connection cable and extension cable are also available in different lengths of 5m, 10m and 20m as optional accessories.
- In installations with long cable length it is recommended to use a DC Injection Box CB-54 at appropriate intervals. In order to counter the effect of voltage drop along the cable length. Please refer 'Usage of DC Injection Box' on page no. 15 for connection and wiring details.

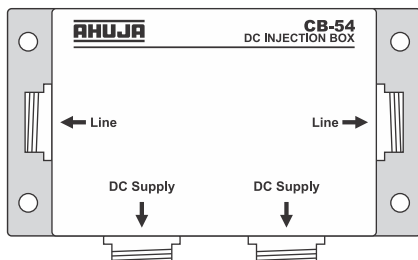


## • Usage of DC Injection Box

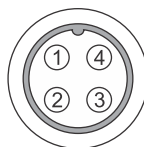
- Some installations can demand long lengths of interconnecting cables. This causes some fall in supply voltage and hence low power output. To overcome this situation, it is advisable to insert the DC Injection Box CB-54 at one delegate near the centre of the wiring loop and at a few other points (if required).
- One such example is described below where 50 delegate units are connected in a closed loop and DC Injection is provided at the middle of the loop.
- Each DC Injection Box CB-54 consists of two nos. of 8-pin male connector marked as LINE and two nos. of 4-pin male connector marked as DC SUPPLY.
- The first conference unit is connected to the Central Amplifier CMA-4400 through the LINE connector of the first DC Injection Box CB-54.
- Similarly, conference unit no. 25 and 26 are interconnected through the LINE connectors of the second DC Injection Box CB-54.
- The remaining conference units are connected in the usual closed loop formation.
- Now connect any of the 4-pin DC Supply connectors from first DC Injection Box to the second DC Injection Box through a connection cable of a required length which is available as an optional accessory.
- The connection cable for DC Injection is available in three different lengths as listed below:  
CC-55 (25m), CC-56 (50m) & CC-57 (100m).



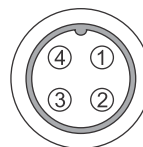
**DC Injection Box  
CB-54**



**4-Pin  
Female Plug**



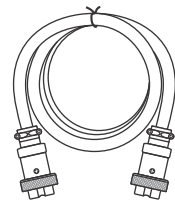
**4-Pin  
Male Socket**



(As viewed from soldering side)

Pin 1 : +ve Supply  
Pin 2 : +ve Supply  
Pin 3 : Ground  
Pin 4 : Ground

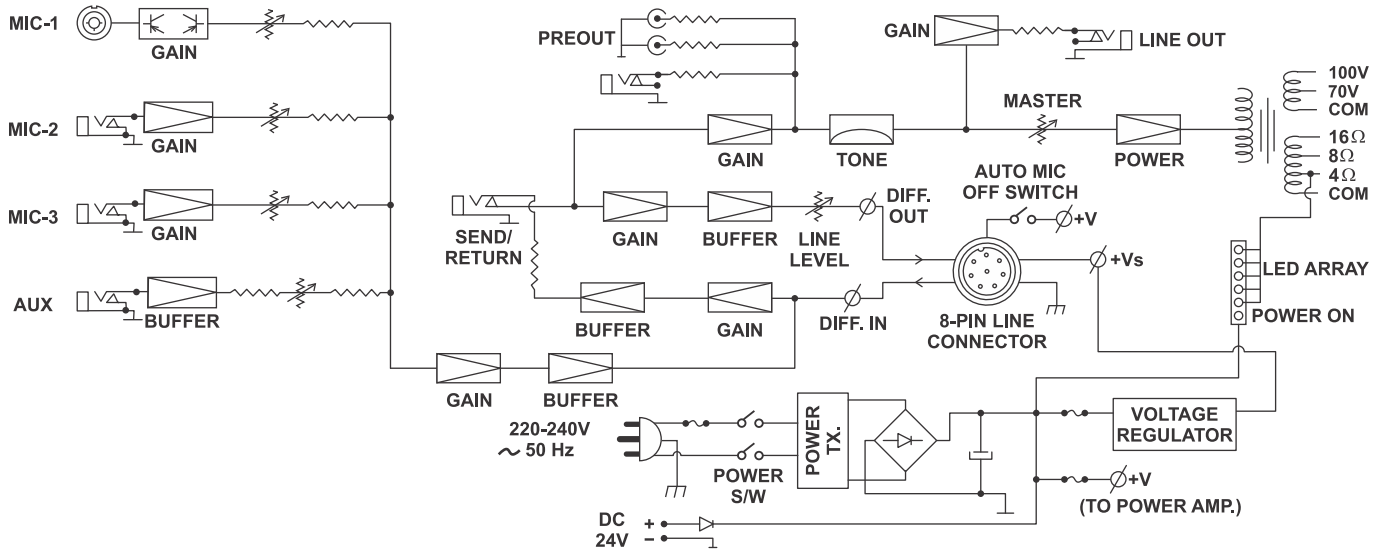
**Connection Cable  
CC-55**



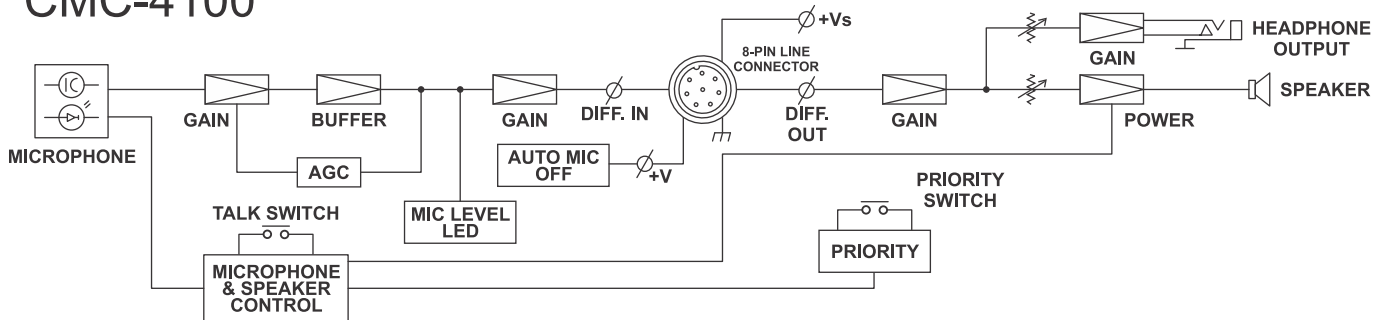
25m connection cable  
terminated with 4-pin female  
plugs on both ends.

## • Block Diagrams

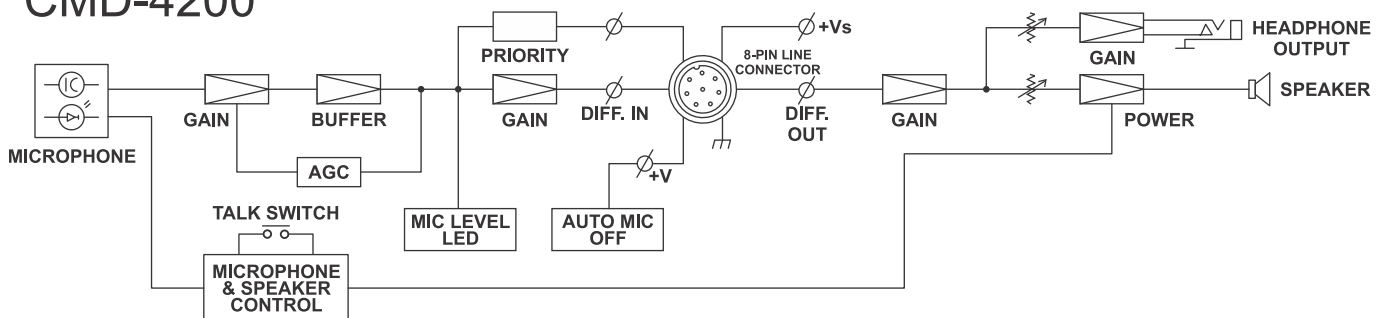
### CMA-4400



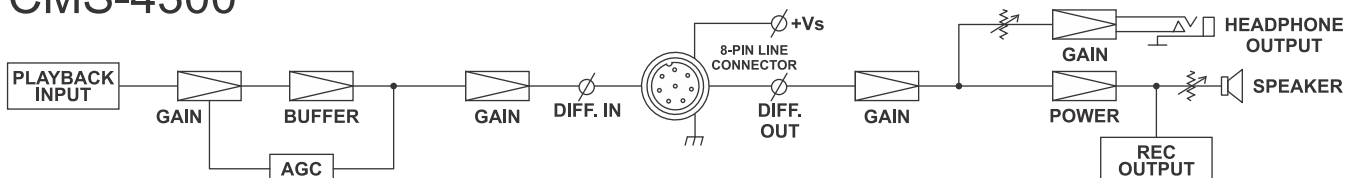
### CMC-4100



### CMD-4200



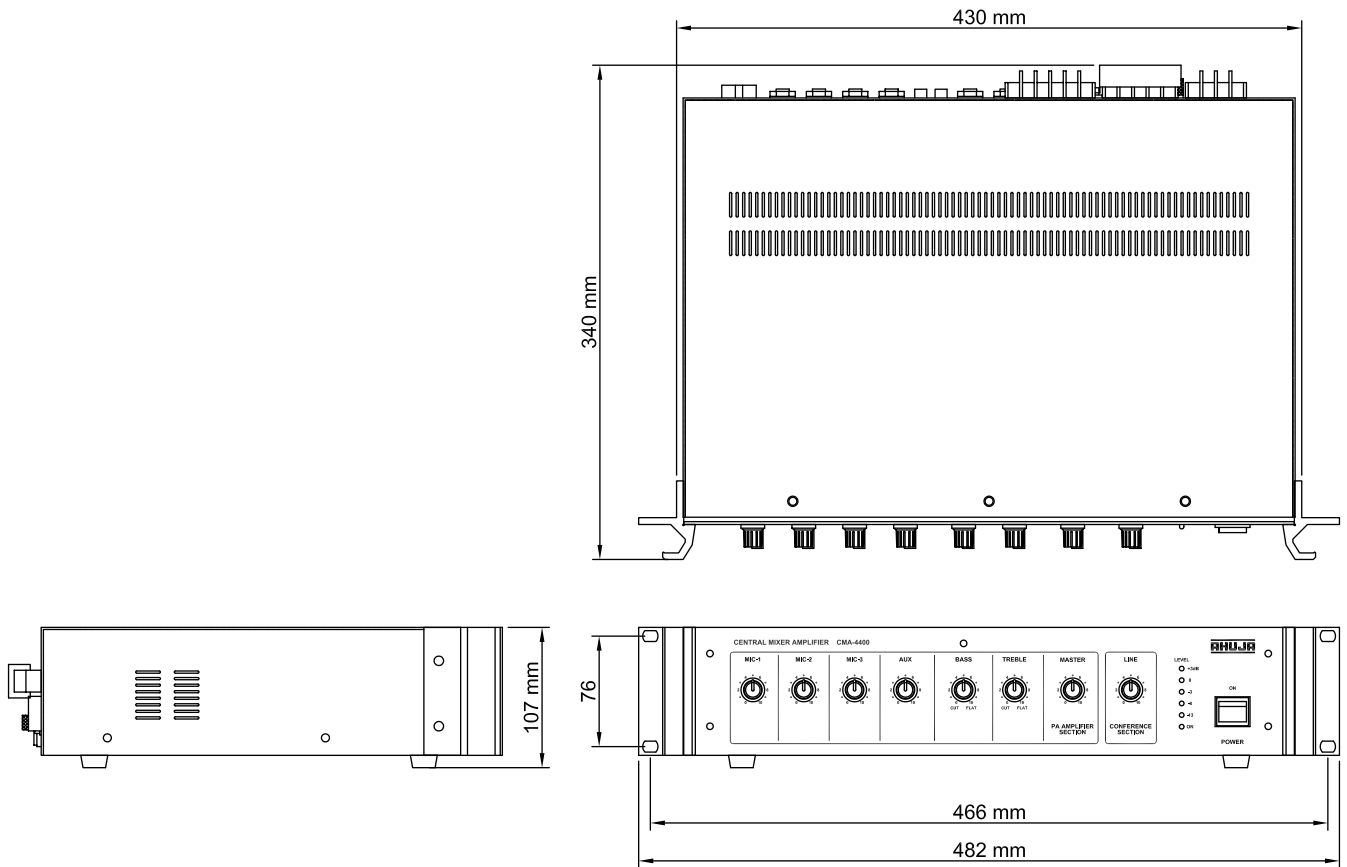
### CMS-4300



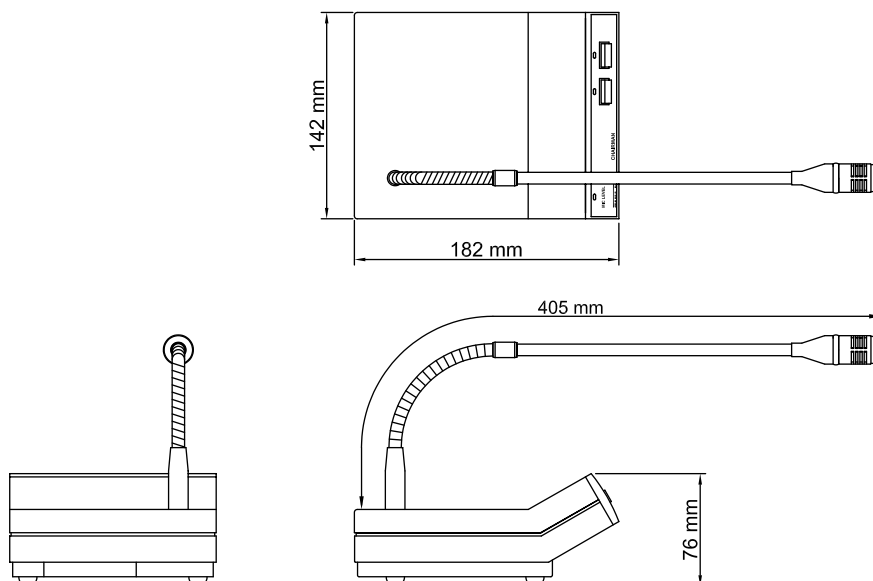


## • Dimensional Diagrams

### Central Mixer Amplifier CMA-4400

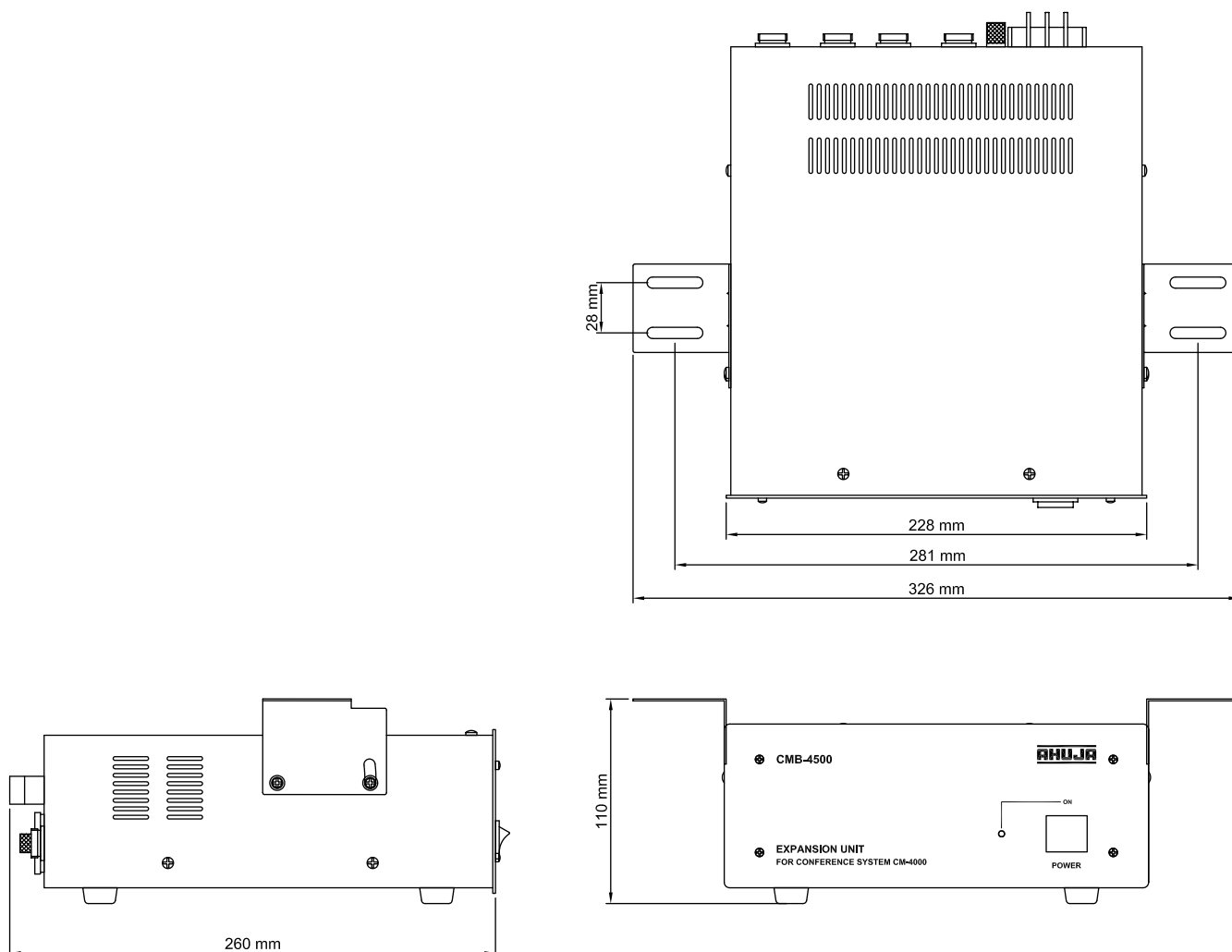


### Chairman Unit CMC-4100

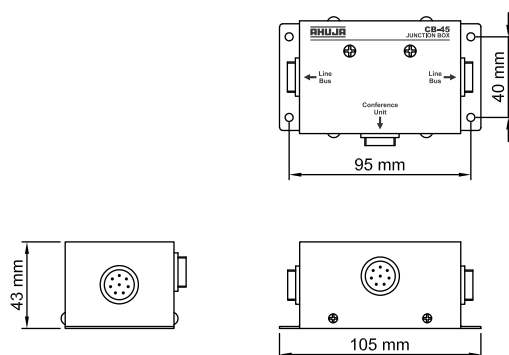


## • Dimensional Diagrams

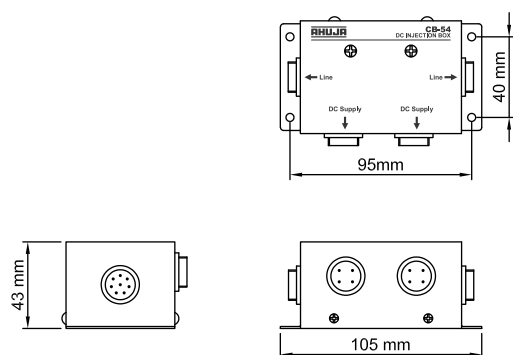
### Conference Expansion Unit CMB-4500






### Junction Box CB-45



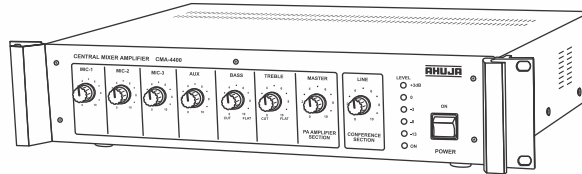
### DC Injection Box CB-54



## • Specifications

Model	Chairman Unit CMC-4100	Delegate Unit CMD-4200	Secretary Unit CMS-4300
			
Microphone	-63 dBV/ $\mu$ bar 7.5mV/Pa	-63 dBV/ $\mu$ bar 7.5mV/Pa	- -
Current Consumption	<50mA Max.	<50mA Max.	<50mA Max.
Mic Auto Switch-off Time	-	75 seconds approx.	-
Input	Line	Line	Line, Playback
Output	Line, Headphone with Volume Control	Line, Headphone with Volume Control	Line, Record, Headphone with Volume Control
Speaker	Max Input 300 mW Impedance 16 $\Omega$	Max Input 300 mW Impedance 16 $\Omega$	Max Input 300 mW Impedance 16 $\Omega$
Controls	Priority Switch Talk Switch Speaker Vol. Control Headphone Vol. Control	- Talk Switch Speaker Vol. Control Headphone Vol. Control	- - Monitor Speaker Vol. Control Headphone Vol. Control
Dimensions	W145 × H75 × D180 mm (Base)	W145 × H75 × D180 mm (Base)	W145 × H75 × D180mm (Base)
Weight	1.30 kg approx. (w/o cable)	1.30 kg approx. (w/o cable)	1.15 kg approx. (w/o cable)
Accessories	Foam Windshield, 2.5m Interconnecting Cable	Foam Windshield, 2.5m Interconnecting Cable	4-Pin Plug for REC/PB, 2.5m Interconnecting Cable

### Central Mixer Amplifier CMA-4400



PA Amplifier Section		Conference Section	
Power Output	50W RMS at 2% THD 90W RMS Max.	Line Output	17.5V DC/3A Max. -34dBV (20mV)
Output Regulation	<2dB	Control	Line Level Control
Inputs	1 × Mic 1.0mV/2k $\Omega$ (Balanced) 2 × Mic 0.65mV/4.7k $\Omega$ (Unbalanced) 1 × Aux 100mV/470k $\Omega$ (Unbalanced)	<b>General</b>	
Frequency Response	60-14,000 Hz ( $\pm$ 3dB)	Power Requirement	AC: 220-240V (50/60Hz) DC: 24V Car Battery
S/N Ratio	>60dB	Power Consumption	250VA
Tone Controls	Bass: -10dB at 100Hz Treble: -10dB at 10kHz	Protections	AC: Fuse 3Amp. (T 3A L) DC: Fuse 2 × 10Amp. (T 10A L)
Preamp / Rec Output	200mV/600 $\Omega$	Dimensions	W482 × H88 × D295mm
Line Output	1V/1k $\Omega$	Weight	8.70 kg approx.
Speaker Output	4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ , 70V & 100V	Accessories	1 × Connection Cable CC-46 1 × Extension Cable CC-47 1 × Fuse 3 Amp. 1 × Fuse 10 Amp
Send Output	200mV/600 $\Omega$		
Return Input	200mV/10k $\Omega$		

- Design and Specifications are subject to change without notice owing to continuous product upgradation.
- Technical specifications are subject to production tolerances.

## • For Your Records

- **Model No.** .....
- **Serial No.** .....
- **Dealer's Name** .....
- **Dealer's Phone No.** ..... **Fax No.** .....
- **Date of Purchase** .....

Model and Serial Nos. are printed on the rear panel of the product.

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