





IMPORTANT

WARNING

Please keep it from humidity in case of fire or electric shock .

Do not block ventilation openings or stack other equipment on top.

To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

	CAUTION RISK ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



This symbol is intended to alert the user to the presence of un-insulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

AP-200M, 300M, 600M, 1000M

**Mixer amplifier
with USB, Tuner, Mp3**





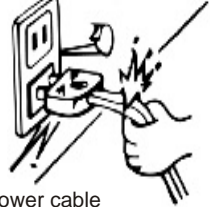

Operation
manual



Specifications

Model	AP-200M	AP-300M	AP-600M	AP-1000M
Rated Power	70W	130W	260W	360W
Speaker Output	4-16 ohms(Ω) Constant impedance			
	70W	70V(70 ohms(Ω)) 100V(143 ohms(Ω)) Constant voltage		
	130W	70V(38 ohms(Ω)) 100V(77 ohms(Ω)) Constant voltage		
	260W	70V(19 ohms(Ω)) 100V(39 ohms(Ω)) Constant voltage		
	360W	70V(14 ohms(Ω)) 100V(28 ohms(Ω)) Constant voltage		
Inputs	MIC1:600 ohms(Ω) 5-8 mV , Unbalanced MIC2:600 ohms(Ω) 5-8 mV , Unbalanced MIC3:600 ohms(Ω) 5-8 mV , Unbalanced			
Line Inputs	AUX1:10k ohms(Ω) 150-470 mV , Unbalanced AUX2:10k ohms(Ω) 150-470 mV , Unbalanced			
Auxiliary Output	0.775V (0 dB)			
Freq. Response	60 Hz ~ 15k Hz (± 3 dB)			
THD	≤ 1% at 1kHz, 1/3 rated power; ≤ 2%, full rated power			
S/N Ratio	Line:85 dB , MIC:>72 dB			
Tone Control	BASS:100 Hz (± 10 dB) , TREBLE:12k Hz (± 10 dB)			
Mute Function	MIC1 Input ,MIC2、MIC3、AUX1、AUX2 0~30 dB attenuation			
Output Control	< 3 dB, From no signal to full load			
Control Function	5 volume adjustment, 1 treble and 1 bass, 1 mute, 1 power switch			
Cooling	DC 12V FAN Cooling			
Indicator	Power indicator, Level: 2,4,6,8,10			
Protection	AC FUSE×4A	AC FUSE×4A	AC FUSE×8A	AC FUSE×8A
	AC FUSE×1,Overload, short circuit, high heat			
Cable	(3×0.75 mm ²)×1.5M (Standard)			
Power Requirements	AC 220V ± 10% 50-60Hz			
Power Consumption	95W	175W	350W	485W
Dimension	89(H)×483(W)×366(D) mm			
Packing Dimension	185(H)×520(W)×435(D) mm			
Net Weight	10.04kg	11.36kg	13.68kg	14.08kg
Gross Weight	11.72kg	13.02kg	15.32kg	15.7kg

Notice

 <p>Heat</p> <ul style="list-style-type: none"> ● Keep it from bright sunshine or heat. <p>Cabinet installation</p> <ul style="list-style-type: none"> ● It should not be a closed cabinet. Sufficient ventilation holes is a must for heat dissipation . 	 <p>Do not open the cover</p> <ul style="list-style-type: none"> ● Please do not open the cover in case of electric shock. Unplug when malfunction happens and refer servicing to qualified personnel. 	 <p>Cover protection</p> <ul style="list-style-type: none"> ● Cover surface should not be exposed to insecticide, gas, thinner or other solvents which may damage the device and color. Clean it with soft cloth and be aware of solvent usage.
 <p>Humidity, water and dust</p> <ul style="list-style-type: none"> ● Keep it away from humidity and dust. 	 <p>Power cable</p> <ul style="list-style-type: none"> ● Do not drag the cable when unplug. 	 <p>Leaving</p> <ul style="list-style-type: none"> ● Unplug when the device is not used for a long time.

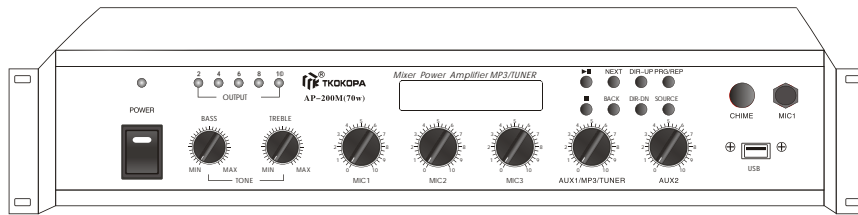
PA apm MP3/Tuner included

AP-200M

AP-300M

AP-600M

AP-1000M



Manual

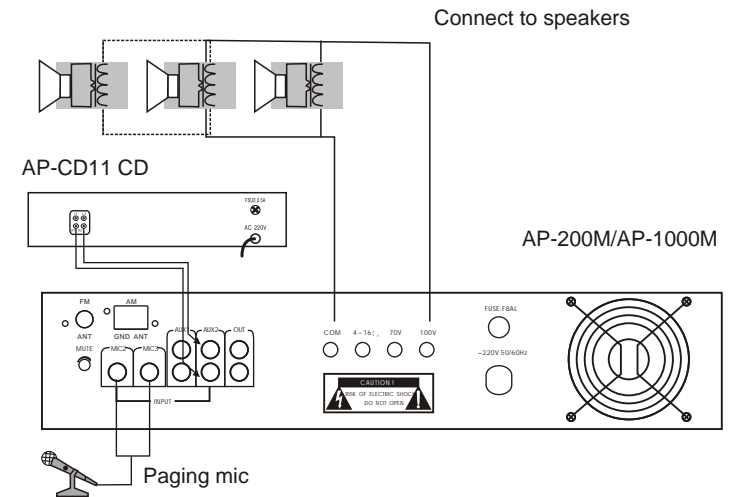
Features

1. 3 microphone and 2 line in, 1 auxiliary out, suitable for mini PA.
2. 100V, 70V and 4-16 Ohms (balanced, ungrounded) outputs.
3. Mute function, PA priority.
4. Independent volume control.
5. Treble and bass tone control.
6. 5-element LED level meter makes it easy to view the output level.
7. Output short circuit protection and warning.
8. Mp3, FM/AM audio source and 4 tones chime prompt tone.
9. FM/AM switchable, manual/auto search function; memory for 20 FM and 20 AM radio
10. LCD to display MP3/tuner working state.
11. A single unit is as a complete mini PA system.

Installation notes

1. Do not block ventilation holes.
2. Check power cables before using.
3. The power cord plug should be appropriate for the power outlet.
4. Power supply should be sufficient, with independent ground lead.
5. Keep it away from humidity, dust, heat and vibration. Operating environment 5-28° , relative humidity <90%. If long time use, cooling solution is recommended to reduce high heat.
6. Voltage supply is 220V+-10% 50/60 Hz. If high or low voltage or strong fluctuation happens, an installation of DC power supply is recommended.
7. The amplifier will produce a warning sound if the outputs are shorted. Please turn the power off and check the speaker wires before turning the power on.
8. Before the amplifier is on, turn the volume to the minimum. Turn it up slowly after amplifier is on so as to protect the speakers. When turn off, firstly turn the volume to the minimum and then turn the power off .

Rear panel and connection



Output connection

- Output terminal is on the rear panel, banana or spade-shaped plug can be used. Black for public terminal, red for heat terminal.
- Rated voltage terminal output should be used. Speakers should be with line transformer, and their total power should be less than the rated power of the amplifier.
- If speakers nearby the amplifier, rated impedance (4-16Ohms) terminal input can be used, and their total impedance should be 4-16Ohms correspondingly.

FM features

Receiving frequency	87.00MHz~108.00MHz
Stepped-frequency	100KHz
Medium frequency	10.70MHz (Upper Heterodyne)
Operating environment	-5℃ ~+70℃
Input impedance	75Ω Unbalanced 75Ω unbalanced

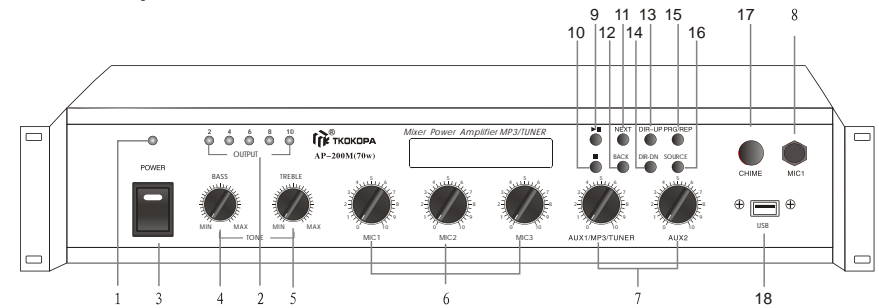
AM features

Receiving frequency	522KHz ~ 1611KHz
Stepped-frequency	9/10KHz
Medium frequency	450KHz (Upper Heterodyne)
Operating environment	-5℃ ~ +70℃
Antenna	Use dummy antenna which specified. If there discrepancy happened. should use loop antenna.

LCD features

Mode	STN blue film, QS, white LED
Operating environment	0℃ ~ +50℃
Storage environment	-10℃ ~ +60℃
View angle	12: 00
Vision size(W x H)	66.0 X 13.4mm

Front panel



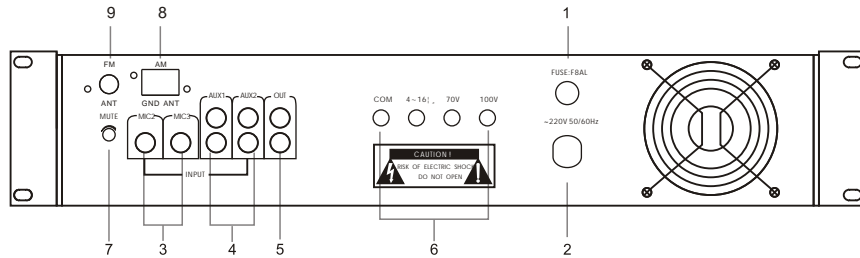
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|-------------------|----------------|------------------|--------------------------------|
| 1 Power indicator | 3 Power switch | 5 Treble control | 7 Mp3、radio line volume |
| 2 LED level | 4 Bass control | 6 Mic volume | 8 No.1(priority) Mic port |
| 9 Play/pause | 10 Stop | 11 Next | 12 Back |
| 13 DIR-UP | 14 DIR-DN | 15 Save | 16 Mp3/FM/AM/AUX1 audio switch |
| 17 4 tones chime | 18 USB port | | |

Notes: Brightness of 5 LED lights signifies strong input signal, should adjust the volume to keep No.4~5 light flashing.

Buttons on Mp3, FM, AM audio source

Key	Mp3 source	FM source	AM source
▶	Play/pause	Invalid	Invalid
■	Stop	Invalid	Invalid
NEXT	Last file	Next channel	Next channel
BACK	Next file	Next channel	Next channel
DIR-UP	Last folder	Up fine-tuning, continuous 4 press for auto search	Up fine-tuning, continuous 4 press for auto search
DIR-DN	Next folder	Dn fine-tuning, continuous 4 press for auto search	Dn fine-tuning, continuous 4 press for auto search
PRG/REP	Invalid	Save channels	Save channels
SOURCE	Switch to FM audio source	Switch to AM audio source	Switch to AUX1 audio source

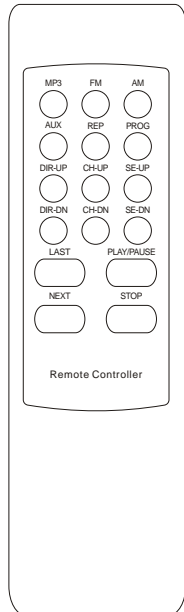
Rear panel



- | | | | |
|--------------|----------------------|-------------------|----------------|
| 1 Fuse | 2 AC power interface | 3 #2,#3 Mic input | 4 Aux1,2 input |
| 5 Line out | 6 Output terminal | 7 Mute control | 8 AM antenna |
| 9 FM antenna | | | |

Note: Only two of the four output terminals should be used.

Remote control



Features:

- 1、MP3: MP3 audio source
- 2、FM: FM audio source
- 3、AM: AM audio source
- 4、AUX: AUX1 audio source
- 5、REP: MP3 loop play (full loop and shuffle)
- 6、PROG: save channel
- 7、DIR-UP: last file
- 8、DIR-DN: next file
- 9、CH-UP: FM、AM audio source, last channel
- 10、CH-DN: FM、AM audio source, next channel
- 11、SE-UP: FM、AM audio source, up fine-turning, 4 continuous press for auto search
- 12、SE-DN: FM、AM audio source, down fine-turning 4 continuous press for auto search
- 13、LAST: MP3 audio source, last play
- 14、NEXT: MP audio source, next play
- 15、PLAY/PAUSE: MP3 audio source, play/pause
- 16、STOP: MP3 audio source, stop

Mute function

MIC 1 takes priority over and mutes all other inputs. The mute may be adjusted with the MUTE sensitivity control knob on the rear panel. The factory default setting is -30dB.

U disk connection

Before turning the power on, connect U disk to USB port. When the power is on, U disk can be inserted randomly; the default setting of Mp3 play mode is full loop.

4 tones chime

Beyond any volume control, prompt tone takes priority same as MIC1.

FAT analysis

1. Support FAT16 and FAT32
2. Support VFAT (long file name)
3. Not support multi-zone U disk
4. Support 99 folders max.
5. The maximum number of playable files within each folder is 9999.
6. The playable folder hierarchy is up to 8 layers including the root directory.
7. The playable folders extension support *.mp3, *.mp2 and *.mp1.
For *.mp2 and *.mp1, enabled/disabled mode is optional.
8. Can obtain up to 64 bytes as the folder name or file name.

Mp3 decode

1. Support MPEG audio and 1, 2 and 2.5
2. Supports layer 1, 2 and 3
3. Supports sample rates 8k, 16k, 32k, 11.025k, 22.05k, 44.1k, 12k, 24k and 48kHz
4. Supports bit rate 8 to 320 kbps and VBR (Variable Bit Rate), except free format