

PUBLIC ADDRESS SYSTEMS



German Pro PA sound system

PA and

More...

German Pro PA sound system

Professional Public Address

MC-8012

DVD PLAYER/TUNER/CASSETTE/AMPLIFIER



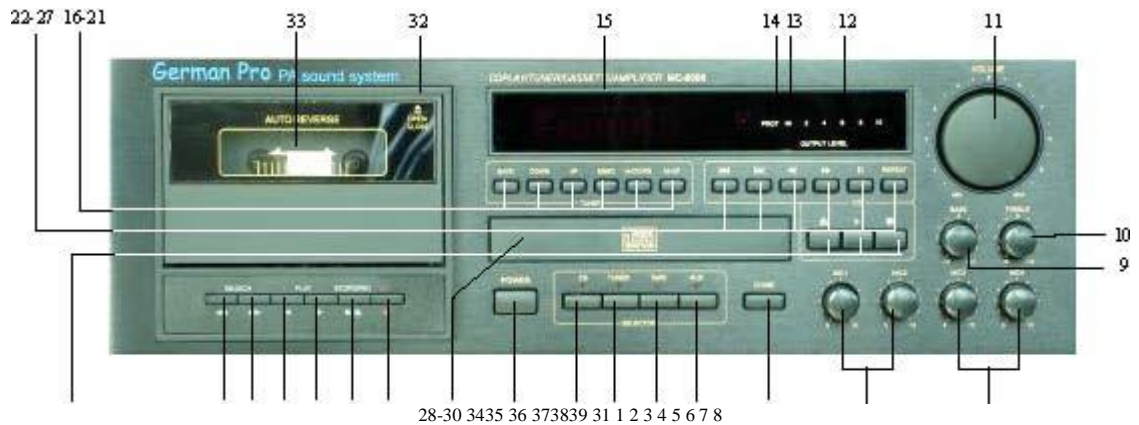
OWNER'S MANUAL

Before operating, please read this manual carefully.

FEATURES

- DVD/MP3/CD Player, Digital Tuner, Full-logic Cassette and Amplifier all in one
- 4 Microphone inputs, one AUX input and one AUX output for amplifier linking, one Video output
- 5 LED level meter
- Built-in Chime, MIC1/MIC2 priority Chime and MIC3/MIC4
- Two levels of priority muting
- Individual volume control for each MIC input, master output volume control with bass & treble control
- Speaker outputs 100V, 70V and 4Ω-16Ω
- Power supply AC 220V~240V and DC 24V

FRONT PANEL

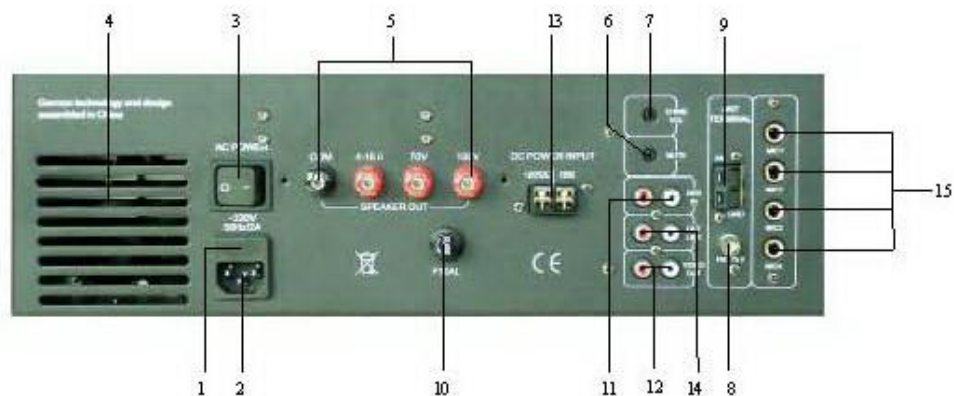


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|------------------------|----------------------------|--------------------------|
| 1. Power switch | 15. VFD | 28. CD-Open / Close Tray |
| 2. Selector-CD | 16. TUNER-Band | 29. CD-Play |
| 3. Selector-TUNER | 17. TUNER-Scan down | 30. CD-Stop |
| 4. Selector-DECK | 18. TUNER-Scan up | 31. CD-Door |
| 5. Selector-AUX | 19. TUNER-Memory | 32. DECK-Close Door |
| 6. Chime button | 20. TUNER-Memo memory Up | 33. DECK-Door |
| 7. Mic1, Mic2 volumes | 21. TUNER-Memo memory down | 34. DECK-Rewind |
| 8. Mic3, Mic4 volumes | 22. CD-Skip down | 35. DECK-Fast forward |
| 9. Bass control | 23. CD-Skip up | 36. DECK-Left Play |
| 10. Treble control | 24. CD-Search down | 37. DECK-Right Play |
| 11. Master Volume | 25. CD-Search up | 38. DECK-Stop/Open door |
| 12. Output level meter | 26. CD-Pause | 39. DECK-Record |
| 13. Power indicator | 27. CD-Repeat Play | |

Note:

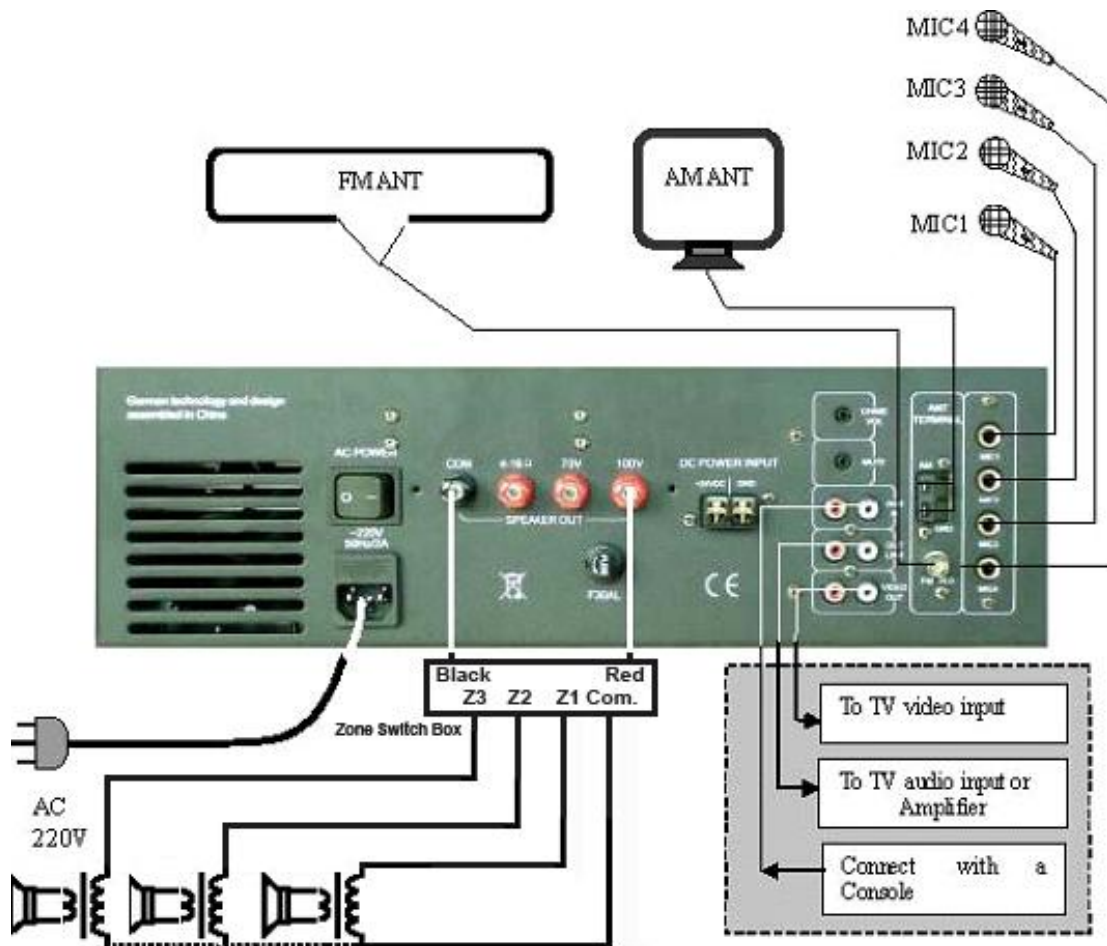
When all 5 LED level meters remain lit and sound is distorted adjust each volume control until only 4 to 5 LED flash.

REAR PANEL



- | | | |
|----------------------|-----------------------|----------------------------|
| 1 AC fuse | 6 Mute control | 11 AUX in Jack, Telephone. |
| 2 Power Supply Input | 7 Chime volume | 12 Video out Jack |
| 3 AC Power Switch | 8 FM antenna terminal | 13 DC24V input Jack |
| 4 Fan | 9 AM antenna terminal | 14 AUX out Jack |
| 5 Output terminals | 10 DC24V fuse | 15 4MIC Jack |

CONNECTIONS



Note:

- Never connect two hot terminals (labeled 4Ω, 70V, 100V) together.
- Only choose one pair of output terminals for speaker connection.
- The connection should be COM-4Ω, COM-70V or COM-100V.
- Use common connector as common speaker when using Zone switch box.

OPERATION

Press **AC POWER ON** button on the rear (the power delayed about 3Sec. if voltage in good range). Then press **POWER** button on the front panel to turn on the system. In 10 seconds the system will recall the last mode.

1. Play DVD/MP3/CD program

The player has DVD, VCD, MP3 and CD playing function. There are two available video outputs (as shown in the diagram at the rear panel of player). When connected in parallel, it provides signal sources to two video screens simultaneously.

- Select CD player: Please select the 'CD' button, and the player will enter DVD/VCD/CD/MP3 play mode, the screen image will display "DVD".

The player will enter automatically to the appropriate play mode depending on the source. Under CD mode, the player will check the disc compartment automatically for a disc. The player will play automatically in sequence, and the display screen will display the corresponding play information.

"READ DISC" will be indicated at the upper left of the display screen for DVD and the player screen flashes and displays "READ". The information of the disc will be displayed later. "NO DISC" will be displayed at the upper left of the display screen if no compatible disc is found.

A blue '●' will be shown on the display screen when the player is playing 'MP3' program with number of track above 99.

- Disc handling: Press the ▲ key at the right side of the disc compartment, the display screen (or screen) will display "OPEN" and the disc compartment will be opened. Press ▲ key again after loading the disc, the display screen (or screen) will display "CLOSE" and close the disc compartment.

Note: Please do not push or pull the disc compartment by force to avoid damaging the mechanism of player.

- Sequence play: The player will play the program automatically in sequence if CD play mode is selected; Press ▲ key to close the disc compartment or press ► key to start the sequence play.
- Track selected play: Press ► key to start playing. Then press ►► or ◀◀ key to select any track for forward or backward play in sequence.

Press ► to start the sequence play, then use ►► to go backward when playing the DVD video compressed disc, ◀◀ can be use for forward selection.

◀◀ or ►► key is to rewind and the fast forward respectively. The forward or backward speed of the program is 2X when pressing the key for the first time, and is 4X for the second time pressing, 8 X for the third time pressing and 20 X for the fourth time pressing. The player will enter the normal play mode when pressing for the fifth time.

- Repeat play: Press REPEAT key for the first time and the player will repeat play the current track, and press REPEAT key again the player will repeat play all the tracks of the disc. Press REPEAT key for the third time to cancel the repeat play function.
- Pause play: Press || to pause the present program play at any play mode and press the key again to resume play from the pause location.
- Stop play: Press ■ key once under the normal play mode, the screen displays "STOP", the player stops playing the current program, press ► key again, the player will start playing from where it stopped, and press ■ key twice the player will play the program again from the beginning when you press ►.

2. Radio Receiving

Press TUNER key and the system will enter radio Mode with the same frequency before you turned off. The screen will show the **B**and and **F**requency received.

- **Band Selecting** Press key **BAND** for switching the band between **FM** and **AM** alternatively.
- **Auto Tune** Press key **DOWN** or **UP** next to **BAND** for 1 second to search the radio stations

automatically. The screen will flash until you find a radio station, and shows the frequency of the radio station you found. The symbol of **STEREO** appears when the radio signal is in the form of stereo and when the level is high enough.

- **Fine Tune** When the signal is poor, we can search the radio station by clicking the key **DOWN** or **UP**. Every time you click, the frequency will be step up or down 50 kHz (FM) or 9 kHz (AM).
- **Memory** After selecting a station, press **MEMO** key. Press **M-DOWN** or **M-UP** for location the memory from **CH-01** to **CH-20**, then press key **MEMO** again to confirm. Note that, in this case the previous value of the memory will be replaced. To call out the memory, just press down **M-DOWN** or **M-UP** to select one of the memories through **CH-01** to **CH-20**.

3. Tape Playing

Press **Tape** to play tape. Clean the magnet head after 10 hours playing so that the voice quality is good. After playing for 20-30 hours you should demagnetize the head by playing demagnetizing tape.

- **Insert / Take out Tape** Press the symbol **STOP/OPEN** to open the door of deck, insert or take out a cassette tape and then close it.
- **Rewinding** Press ◀◀ to rewind the tape.
- **Fast forward** Press ▶▶ to forward the tape.
- **Tape playing:** Press ◀ or ▶ to play the tape, after playing one side the system will rewind automatically to play another side. Press ■ to have it stopped.
- **Record:** On stop status, press ● to record the tape. you can record from the CD, TUNER, AUX or MIC. Adjust the main volume control button, until LED element 3 (+6dB) and LED element 4 (+8dB) flash. You cannot record if tape is protected.

4. Using External Signal

Press **AUX** key for selecting external program from **AUX** port on rear panel.

5. Using Microphone

Decrease the **Microphone Volume** to avoid popping sound when inserting a **Microphone**.

Insert the Microphone into socket **MIC** with a 6.3mm plug, and turn the microphone **Volume** knob slowly to avoid any damage. **MIC1 and MIC2** have higher priority compare to other signals. **MUTE** function is for emergency announcement. We can also adjust the suppressing level with **MUTE LEVEL** on the rear panel.

6. Built-in Chime

Pressing **CHIME** key and a melody will be played with the priority function same as **MIC1 & MIC2**. We can also tune the volume with **CHIME** controller on the rear panel.

7. Remote control

To remotely control devices through cable.

PRECAUTIONS

- 1) Do not block ventilation holes.
- 2) The set should not be placed on areas:
 - 1) With poor ventilation.
 - 2) Exposed to direct sunlight.
 - 3) With high ambient temperature or adjacent to heat generating equipment.
 - 4) With high humidity or dust levels.
 - 5) Susceptible to vibration.
- 3) Make sure the power outlet fits to the plug of the unit.
- 4) Do not use this unit if the electrical power cord is frayed or broken.
- 5) Always operate the unit with the AC ground wire connected to the electrical system ground.

SPECIFICATIONS

DVD/MP3/MP4/CD Section

Frequency response	20 Hz-20 kHz
Signal to Noise Ratio	98dB
Dynamic range	90 dB
THD	0.005%
Wow & Flutter	Under the limited level

Tuner Section

AM	
Sensitivity	50 dB μ
Wave Band	522~1611 kHz
Band width	6 kHz
Signal to Noise Ratio	50 dB
FM	
Sensitivity	20dB μ
Wave Band	87.5~108.0 MHz
Band width	15 kHz
Signal to Noise Ratio	75 dB

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Cassette Section

Tape Speed	4.76 cm/sec
Wow & Flutter	Less Than 0.1%
Frequency response	80 Hz~15 kHz

Amplifier Section

Model	MC-8012
Output	120W
Output Regulation	Less than 5 %
Speaker Output	Balanced 4Ω, 70V, 100V
AUX Out	600Ω, 1V (0 dBV)
Input	MIC 1,2,3,4: 600Ω, 3 mV
	AUX: 10 kΩ, 300 mV
Frequency Response	AUX 80 Hz~15 kHz
Distortion	Less than 0.5% at 1 kHz , 1/3 rated power
Signal to Noise Ratio	MIC 1,2,3,4: 66 dB
	AUX: 70 dB
Tone	Bass: ±10 dB at 100 Hz
	Treble: ±10 dB at 10 kHz
Protection	AC fuse, DC voltage, overload and short circuit, hi temperature, hi signal, High and low voltage with time delay system.
Muting Function	MIC 1 /MIC2 overrides other input signals with 0~-30 dB attenuation
Power Requirements	AC 220V/50 Hz DC24V
Power Consumption	135W
Dimensions (mm)	420×400×132

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Caution

To reduce the risk of electric shock, do not remove the cover.
 No user service parts inside. Refer servicing to qualified service personnel.