38. PRIORITY OUT Stereo Terminals
Provide stereo audio output in the following priority : USB, SD, FM. (RCA jack)

39. TUNER OUT Stereo Terminals
Provide stereo audio output of received radio program. (RCA jack)

40. USB/SD OUT Stereo Terminals
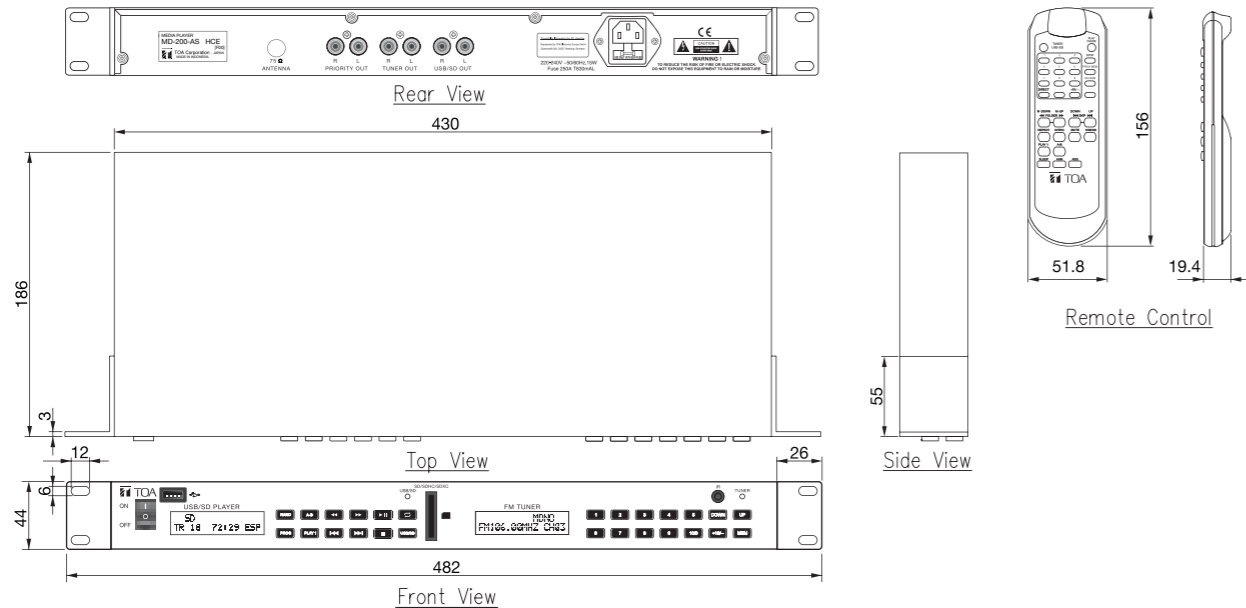Provide stereo audio output of USB/SD program. (RCA jack)

41. ANTENNA Terminal
Connect to FM antenna. (75 Ohms)

42. AC Inlet
Connect to AC cord 220 - 240V.

4. DIMENSIONAL DIAGRAM

Rear View

430

186

3

12

44 6

Top View

26

482

Front View

55

51.8   19.4

Remote Control

Side View

5. SPECIFICATION

Power Source	220 – 240 V AC, 50/60 Hz
Power Consumption	15 W
Frequency Response	20 – 20,000 Hz, ±3 dB
Tuner Receiving Frequency	87.5 – 108 MHz (50 kHz step)
Audio Input	FM 75 Ω antenna terminals
	USB port for memory stick (up 32 GB, Type file : MP3 file)
	SD/MMC card slot (up 32 GB, Type file : MP3 file)
Audio Output	RCA audio output L and R channels for PRIORITY
	RCA audio output L and R channels for FM
	RCA audio output L and R channels for USB/SD
Channels of Memory Tuner	30 Channels in total for FM broadcasts
Indicators	2 LCD Display Light Blue 2 LED Indicator Light Green
Operating Humidity	25% to 85% (must be free from dew condensation)
Operating Temprature	0°C to 40°C (32°F to 104°F)
Finish	Front Panel : Steel Plate, Color Black Case : Steel Plate, Color Black
Dimensions	482 (w) X 44 (h) X 186 (d) mm (18.97" X 1.73" X 7.32")
Weight	2.6 kg (5.73 lbs)
Accessories	AC Power cord 1CE ...1, AC Power cord 4CE ...1, Antenna FM radio ...1, Remote control ...1

• **Note:** The design and specifications are subject to change without notice for improvement.

Traceability Information for Europe

Manufacturer:
PT. TOA GALVA INDUSTRIES
Jl. Raya Jakarta-Bogor Km. 34-35 Sukamaju Baru, Tapos
Kota Depok, Jawa Barat - Indonesia

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TOA Electronics Europe GmbH
Süderstraße 282, 20537 Hamburg,
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TOA

INSTRUCTION MANUAL

MEDIA PLAYER   MD-200-AS HCE

Thank you for purchasing TOA's Media Player
Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

1. SAFETY PRECAUTIONS

• Be sure to read the instructions in this section carefully before use.
• Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
• We also recommend you keep this instruction manual handy for future reference.

⚠ **WARNING** Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

⚠ **CAUTION** Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage

⚠ WARNING

When Installing the unit
• Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.

• Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.

• Do not cut, klink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.

• Avoid installing or mounting the unit in unstable locations, such as on a rickety table or slanted surface. Doing so may result in the unit falling down and causing personal injury and / or property damage.

• To prevent lightning strikes, install the unit at least five meters away from the lightning rod, and yet within the protective range (angle of 45°) the lightning conductor. Lightning strikes may cause the fire, electric shock or personal injury.
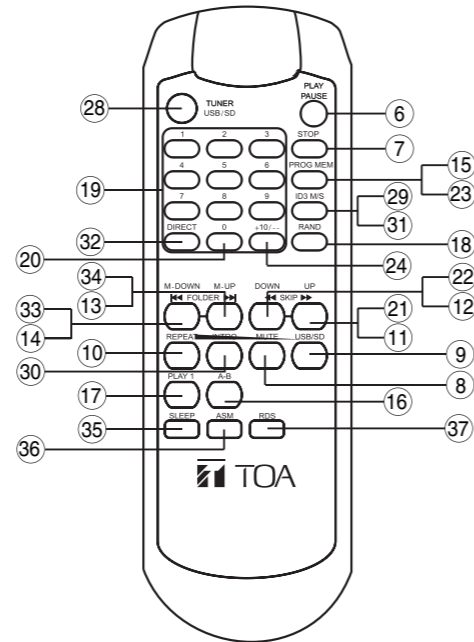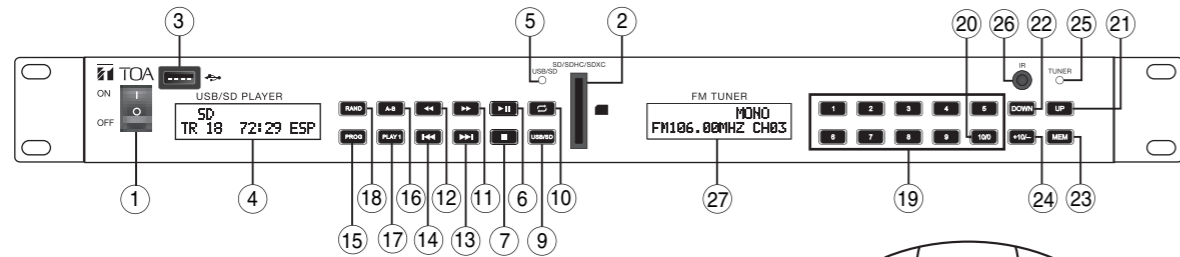
⚠ CAUTION

When Installing the unit
• Never plug in or remove the power supply plug with wet hands, as doing so may cause electric shock.

• When unplugging the power supply cord, be sure to grasp the power supply plug, never pull on the cord it self. Operating the unit with a damaged power supply cord may cause a fire or electric shock.

• When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.

• Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

• The socket - outlet shall be installed near the equipment and the plug (disconnecting device) shall be easily accessible.

2. GENERAL DESCRIPTION

The MD-200-AS is a media player and digital processing FM radio tuner. The unit has a USB and SD card slot that allows MP3 playback. It also has the capability to store up to 30 radio channels which can be called up with 1 touch of a button. The unit can be mounted on an EIA equipment rack.

3. NOMENCLATURE AND FUNCTIONS

3.1. FRONT AND REMOTE HANDSET

1. Power Switch
Press this button to Activate (Turn ON) Media Player. (LCD Light Blue, Text Appear "Welcome" and Tuner Station, Button function Light On) Press once again to Turn OFF Media Player.

2. Slot for SD Card
When SD Card plugged ON, Text Appears "Card", Folder No., and Track Qty.

3. Slot for USB Card
When USB plugged ON, Text Appears "USB", Folder No., and Track Qty.

4. LCD Display
USB/SD Card status including track number and playing time.

5. USB/SD Indicator
Press USB/SD/TUNER button on remote to change LED Indicator. (When USB/SD Indicator light on, function remote button only for USB/SD card.

6. (▶II) or PLAY/PAUSE
Press once to start playing, Press again to pause. Text Appears "Title, No. of Track, Time, Extension Track, Back Light GREEN. When Pause mode Music stop (No Sound) Text Appears "Title, No. of Track, Time (blinking), Extension Track".

7. (■) or STOP
Press this key to stop playing. Text Appears "Disc", Folder No., and Track Qty, Back Light RED

8. MUTE
Press this key while playing to mute sound, press again to recovery, Sound Appear. Display "MUTE ON or MUTE OFF".

9. USB/SD
Press this key to change to USB or SD Card mode. Text Appears "Reading CARD/USB"

10. ( ) or REPEAT
(Press this key while playing) pressing this key will switch between : " PLAY ALL RANDOM → REPEAT TRACK → REPEAT FOLDER → REPEAT ALL → RANDOM REPEAT → PLAY ALL".

11. (▶▶) or SKIP ▶▶
Press this key will skip to the next track (Available for USB and SD card). Keeping pressing this key will fast-forward (Time will running).

12. (◀◀) or SKIP ◀◀
Press this key will skip to the previous track (Available for USB and SD card). Keeping pressing this key will fast-rewind (Time will running).

13. (▶▶I) or FOLDER▶▶I
Press this key will skip to the next Folder (Available for USB and SD card). Keeping pressing this key will fast-forward Folder.

14. (I◀◀) or FOLDER I◀◀
Press this key will skip to the previous Folder (Available for USB and SD card). Keeping pressing this key will fast-rewind Folder.

15. PROG
Set to programming mode. When the STOP key is pressed during programming mode, all program are cleared Display. "P-01 000 0000" (P-01 → Program No., 000 → Folder No., 0000 → Track).

16. A-B
When this key is pressed during play, the beginning of time is marked. Press this key one more time, the end of time is also marked, and the set will play from the beginning to the end cyclically. Press this key again to reset the function.

17. PLAY 1
Press this key to play only one track, after finish will stop → "PLAY 1" (Not automatically play next track). To play next track have to press PLAY button. While playing the track, press this key again to stop this condition. Text Appears "PLAY ALL".

18. RAND
Press this key to Random of track. Press again, Random Track will stopped.
Display text appear "RANDOM REPEAT" and "RDM", press again text will disappear.

19. 0-9
Press this keys to select the track directly (1 - 9999) Press this keys to select frequency station radio has been saved or directly.

20. 10/0
Press this key to change to channel station number 10.

21. UP
Press this key the reception frequency Radio (FM) will increased 50 kHz. When the button is pressed for a few seconds, automatic adjustment frequency. Starts and will stops automatically as soon as a station is detected. (Text appears "FM", Frequency Radio Station, "CH" no.).

22. DOWN
Press this key the reception frequency Radio (FM) will decreased 50 kHz. When the button is pressed for a few seconds, automatic adjustment frequency. Starts and will stops automatically as soon as a station is detected. (Text appears "FM", Frequency Radio Station, "CH" no.).

23. MEM
Press this key to save FM Station Radio (fixed preset memory of 30 CH) To save the displayed reception frequency in the preset memory, press the MEM key, then press the number key. Press the MEM key again to save the reception frequency in that number key. (Display CH01, CH02, ...CH30).

24. +10/--
Press this key once, the preset station number will add 10. Press this key a few seconds, then use number key to input the preset station.

25. TUNER Indicator
Press USB/SD/TUNER button on remote control to change LED Indicator. When TUNER Indicator light on, function remote button only for tuner.

26. IR
Pick up signal from the remote controller.

27. FM TUNER Display
FM Tuner status including FM band and channels memory.

28. TUNER USB/SD
Press this key to change LED Indicator to indicate that the remote work for USB/SD, or Tuner. (For Example When LED Indicator tuner Light ON → Function Remote Button only for tuner).

29. ID3
(Press this key while playing) Pressing this key will info about USB or SD Function.
Text appear "USB" or 'CARD".

30. INTRO
Press this key to INTRODUCE each track such as Title of Song and No. Track. Time for INTRODUCE is about 10 second for each track. Press again will stop INTRODUCE track. Display text appear "INTRO" → Running Title, Time Track, "INT ".

31. M/S
Press these key to change Sound Audio of Station Radio to MONO / STEREO System. Display text "MONO" or "STEREO".

32. DIRECT
This is a direct search function. Press this key once, then use number key (0 - 9) to input the station frequency, press DIRECT key again to confirm the frequency.
The tuner jump to this station. If the input frequency is beyond the range or incomplete, the tuner will display ERROR.

33. M-DOWN
Press this key to search Channel Frequency has been saved (Channel freq is decrement).

34. M-UP
Press this key to search Channel Frequency has been saved (Channel freq is increment).

35. SLEEP
When SLEEP key is pressed, the sleep function is set and the sleep time in display will flash for 5 seconds. The sleep time begins from the 90 minutes and change cyclically as shown below. When the SLEEP time is set, the power is automatically switch off after the sleep time. Display
"90→80→70→60→50→40→30→20→10→OFF Min"
The sleep function is cleared, if the SLEEP key is pressed till the sleep time is not displayed on the LCD.

36. ASM
Press these key to auto scan mode and memory function.
Press this key in a few seconds, the tuner will search the station and store in memory automatically (will saved 30 CH station Radio).

37. RDS
Press these key to activate the Radio Data System (RDS) RDS is a standard communication protocol for embedding small amounts of digital information on conventional FM broadcasts. RDS standardized several types of information sent. One of them: time, radio station name and program information.
Display Text "PS NONE → PTY NONE → RT NONE → CT NONE → FREQ. RADIO"
* PS (name service program)
  This is only eight static characters display that represents the name of the radio station that broadcasts it.
* PTY (type of program)
  Allows users to find the type of program that is being broadcast.
* RT (text radio)
  This function allows a radio station to send 64-character free text that can be either static (like a slogan) or synchronous with programming (such as the title and artist of the song being played).
* CT (clock and date time)
  Can perform a reception in the clock radio in a car. CT can only be accurate for around 100 ms from UTC (Universal Time Coordinated).

3.2. REAR