

CMP30

User Manual



www.audac.eu

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Introduction

Digital audio source – CD, MP3 & Tuner

The CMP30 is an All-In-One audio source device which accommodates three different kinds of audio sources into one single device.

It combines a CD-Player, MP3-player and AM/FM tuner into one single rack space 19” housing. On the front side is a CD slot, an USB slot and a SD/MMC memory card slot provided. This makes it possible to play regular audio CD’s as well as MP3 files from either CD’s, USB memory sticks or SD/MMC memory cards.

On the rear side of the device are three stereo outputs provided. Two of them are dedicated to the tuner and CD/MP3 function, while the third output is a variable output. Because of the two separate stereo outputs, the tuner and CD/MP3 player can operate simultaneously.

This feature can be useful for applications such as Multi-Zone systems where multiple audio sources are required at the same time.

The variable output has a volume control function and carries the signal from the CD/MP3 player when a track is playing, but when the CD/MP3 has ended, the variable output will automatically switch to tuner function.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE.

DO NOT PLACE THIS UNIT IN AN ENCLOSED ENVIRONMENT SUCH AS A BOOKSHELF OR CLOSET. ENSURE THERE IS ADEQUATE VENTILATION TO COOL THE UNIT. DO NOT BLOCK THE VENTILATION OPENINGS.

DO NOT STICK ANY OBJECTS THROUGH THE VENTILATION OPENINGS.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

PLACE THE UNIT ON A STABLE BASE OR MOUNT IT IN A STABLE RACK

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

ONLY CONNECT THIS UNIT TO A MAINS SOCKET OUTLET WITH PROTECTIVE EARTHING CONNECTION



CAUTION – SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2004/108/EC (EMC) and 2006/95/EC (LVD)



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its working life. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product to your local collection point or recycling centre for electrical and electronic waste. This will make to sure that it will be recycled on an environmentally friendly manner, and will help to protect the environment in which we all live.

CAUTION

The symbols shown are internationally recognized symbols that warn about potential hazards of electrical products. The lightning flash with arrowpoint in an equilateral triangle means that the unit contains dangerous voltages. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the users manual.



These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

CLASS 1 LASER PRODUCT

This product is equipped with an optical unit containing a Class 1 laser. Improper use can result in hazardous radiation exposure. This product should not be adjusted or repaired by anyone except properly qualified service personnel.

Chapter 1

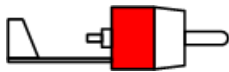
Pin connections and connectors

CONNECTION STANDARDS

The in- and output connections for AUDAC audio equipment are performed corresponding to international wiring standards for professional audio equipment.

Cinch (RCA):

For unbalanced output connections:



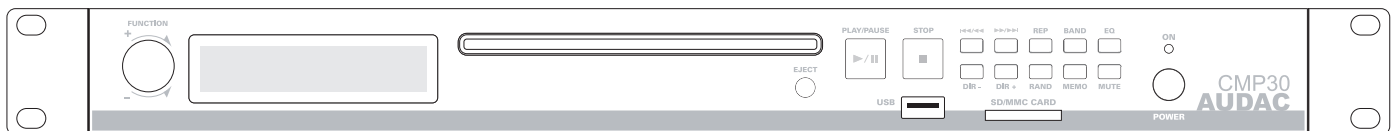
Tip: Signal
White: Left

Sleeve: Ground
Red: Right

Chapter 2

Front & rear panel

Front Panel overview



Front panel description

Function rotary dial (FUNCTION):

The function rotary dial allows to switch the device between Tuner, CD or USB & SD/MMC operation mode by pressing a short term. It will switch between the several modes in this sequence. By rotating this dial, the output volume for the 'Variable audio output' can be adjusted.

By pressing and holding this button, the playback mode will be switched between **'Single Play'** and **'Normal Play'** mode. In 'Normal play' mode, the next track will automatically start playing when the current track is finished. In 'Single play' mode, the player will fall into stop mode after the current track being finished, waiting for a 'Play' command (press the Play button) before playing the next track. In situations where the device is used for music, usually the 'Normal Play' mode will be desirable, while in other situations such as educational purposes, houses of worships or gym's the 'Single Play' mode can provide great user convenience.

LCD Display:

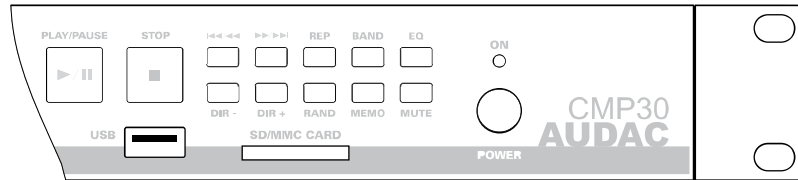
The LCD Display shows the current operation mode of the unit. It shows which radio station is playing, which audio track is playing, which functions are enabled, ...

CD Slot:

Audio CD's shall be inserted into this drive. The drive will load the CD automatically when it is inserted into this slot. Only use CD's with normal round shape and with normal size (12 cm). Always check if the CD slot is empty before inserting a CD and don't force the CD into the slot when it doesn't accept the CD automatically. When a CD is inserted, the device will automatically start playing it.

CD Eject button (EJECT):

This button shall be pressed to remove the CD from the drive. After this button being pressed, the CD will be ejected from the drive and can be taken out by the user. If the CD is not taken within ~10 seconds, the CD will be automatically inserted to the drive again.



Play / Pause button (PLAY/PAUSE):

- CD, USB & SD/MMC mode:

Press: The music from the CD or USB & SD/MMC can be started and paused with this button. When a track currently is playing, it will be paused after pressing this button and the current position (Track no and time) will be shown on the display. It will resume to play after pressing this button again.

- Tuner mode:

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 1' of the selected band.

Stop button (STOP):

- CD, USB & SD/MMC mode:

The currently playing track will be stopped when pressing this button. After pressing 'Play' again, it will resume to play at the absolute beginning of the inserted data carrier.

- Tuner mode:

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 2' of the selected band.

Tuning down / CD–Mp3 Track selection down (⏮/⏪):

- CD, USB & SD/MMC mode:

In CD or USB & SD/MMC mode, the playing track and position in the track can be selected with this button.

Press: By pressing this button for a short term, the previous track will be selected

Press & Hold: By pressing and holding this button, the position in the currently playing track can be selected (backwards). After the button is released the track will resume to play from this point.

- Tuner mode:

In tuner mode, the desired radio station can be selected with this button.

Press: By pressing this button one single time, the previous radio station will be searched in auto seek mode, and when used in manual seek mode the selected frequency will decrease one step.

Press & Hold: By pressing and holding this button, the selection mode for the tuner will be switched to manual seek mode and the frequency can be decreased by holding / pressing this button. It will resume automatically to auto seek mode after about ~3 seconds.

Tuning up / CD–Mp3 Track selection up (⏩/⏭):

- CD, USB & SD/MMC mode:

In CD or USB & SD/MMC mode, the playing track and position in the track can be selected with this button.

Press: By pressing this button for a short term, the next track will be selected

Press & Hold: By pressing and holding this button, the position in the currently playing track can be selected (forward). After the button is released the track will resume to play from this point.

- **Tuner mode:**

In tuner mode, the desired radio station can be selected with this button.

Press: By pressing this button one single time, the next radio station will be searched in auto seek mode, and when used in manual seek mode the selected frequency will increase one step.

Press & Hold: By pressing and holding this button, the selection mode for the tuner will be switched to manual seek mode and the frequency can be increased by holding / pressing this button. It will resume automatically to auto seek mode after about ~3 seconds.

Repeat (REP):

- **CD, USB & SD/MMC mode:**

With this button, the repeat mode can be selected between **Repeat One** (Repeats currently playing track), **Repeat Folder** (Repeats all tracks in currently playing folder), **Repeat All** (Repeats all tracks on inserted data carrier) and **Repeat Off** (Stops playing after all tracks are played once) in this sequence. Press this button to toggle between the different repeat modes.

- **Tuner mode:**

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 3' of the selected band.

Band select for the tuner (BAND):

- **Tuner mode:**

Press this button to select between the different tuner bands. The different tuner bands are FM1 / FM2 / FM3 / MW1 / MW2 and will be selected in this sequence.

- **CD, USB & SD/MMC mode:**

Press this button to display the information of the ID3 tag of the current track.
(Folder / File / Title / Artist / Album)

Press & Hold: By pressing and holding this button, the loudness can be switched On and Off.

Equalizer select (Flat / Classic / Pop / Rock / Off) (EQ):

Press this button to switch between different equalizer presets: Flat / Classic / Pop / Rock / Off. They will be selected in this sequence.

Search down (DIR -):

- **CD, USB & SD/MMC mode:**

Press this button to jump to a lower folder.

- **Tuner mode:**

Press: Press this button in tuner mode to select the previous programmed radio preset.

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 5' of the selected band.

Search up (DIR +):

- CD, USB & SD/MMC mode:

Press this button to jump to a higher folder.

- Tuner mode:

Press: Press this button in tuner mode to select the next programmed radio preset.

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 6' of the selected band.

Random play (RAND):

- CD, USB & SD/MMC mode:

Press this button to switch the random play mode (Shuffle) On and Off. When random play is switched ON, tracks will be played in a random sequence.

- Tuner mode:

Press & Hold: By pressing and holding this button, the current chosen radio frequency will be stored on 'Position 4' of the selected band.

Memory for the tuner frequency (MEMO):

When pressing this button, available radio stations will be searched and automatically stored to the preset memory. The radio stations are stored in order of increasing frequency, starting from Band 1 – Position 1 with subsequently the increasing frequencies on the higher positions.

Manual position assignment of the preset frequencies can also be done by pressing and holding the PLAY/PAUSE(1) – STOP(2) – REP(3) – RAND(4) – DIR–(5) – DIR+(6) buttons.

Mute (MUTE):

By pressing this button, the variable output and fixed CD/MP3 output can be muted / unmuted. The fixed tuner output is not affected by the mute button. When the outputs are muted, the message 'MUTE' will blink on the display.

USB connection port & SD/MMC card slot:

An USB storage device and/or an SD/MMC memory card can be inserted to these slots. Tracks stored on here can be played through the CMP30 and it will automatically start to play when the medium is inserted.

Power switch:

The device can be switched ON and Off using the power switch. When the device is switched ON, the blue LED above the power button will illuminate. After powering on, it takes about three seconds before the device being operational. The device will automatically resume to its previous operation mode upon power on.

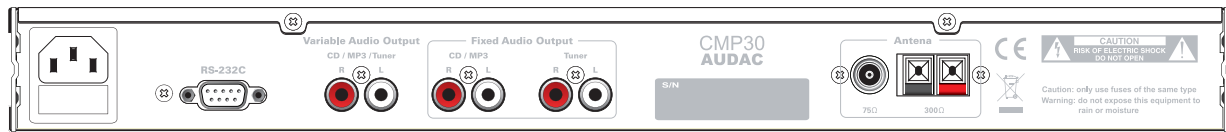
Functions overview

The CMP30 contains many buttons having different functions depending of the current operation mode of the device and the way they are operated. For example, some buttons have a different function in CD/MP3 mode or tuner mode, also depending if they are pressed for a short term or pressed and hold for a few seconds.

Below table gives an overview for all the different functions which can be controlled, indicating the differences between the different operation modes.

Control	Operation mode	Action	Function
Function rotary dial	All modes	Press	Change between Tuner / CD / SD/MMC Operation mode
	All modes	Rotate	Change output volume for variable output
	All modes	Press & Hold	Change playback mode between single play and normal play
CD Eject button	All modes	Press	Remove inserted CD's from the CD Drive
Play/Pause button	CD, USB & SD/MMC	Press	Pause & Resume to play the current track
	Tuner	Press & Hold	Store current chosen radio frequency on Position 1
Stop button	CD, USB & SD/MMC	Press	Stop to play the current track
	Tuner	Press & Hold	Store current chosen radio frequency on Position 2
Rewind button	CD, USB & SD/MMC	Press	Select previous track
	CD, USB & SD/MMC	Press & Hold	Scan back position in currently playing track
	Tuner	Press	Find previous radio station in Auto seek mode / decrease frequency
	Tuner	Press & Hold	Switch to Manual seek mode / decrease frequency
Forward button	CD, USB & SD/MMC	Press	Select next track
	CD, USB & SD/MMC	Press & Hold	Scan forward position in currently playing track
	Tuner	Press	Find next radio station in Auto seek mode / increase frequency
	Tuner	Press & Hold	Switch to Manual seek mode / increase frequency
Repeat button	CD, USB & SD/MMC	Press	Switch between different repeat modes (One / Folder / All / Off)
	Tuner	Press & Hold	Store current chosen radio frequency on Position 3
Band button	CD, USB & SD/MMC	Press	Display ID3 Information of current playing track (Folder / File / Title / Artist / Album)
	Tuner	Press	Switch between different tuner bands (FM1 / FM2 / FM3 / MW1 / MW2)
	All modes	Press & Hold	Switch Loudness On / Off
EQ button	All modes	Press	Switch between different EQ presets (Flat / Classic / Pop / Rock / Off)
DIR – button	CD, USB & SD/MMC	Press	Jump to a lower folder
	Tuner	Press	Select previously programmed radio preset
	Tuner	Press & Hold	Store current chosen radio frequency on Position 5
DIR + button	CD, USB & SD/MMC	Press	Jump to a higher folder
	Tuner	Press	Select next programmed radio preset
	Tuner	Press & Hold	Store current chosen radio frequency on Position 6
RAND button	CD, USB & SD/MMC	Press	Switch random play mode (Shuffle) On and Off
	Tuner	Press & Hold	Store current chosen radio frequency on Position 4
MEMO button	Tuner	Press	Automatically searching and storing radio stations
MUTE button	All modes	Press	Mutes / Unmutes variable & CD/MP3 output
Power ON	All modes	n/a	Automatically resumes the operation mode / track before power down
Insert medium	All modes	n/a	Automatically starts to play the inserted medium (CD, USB, SD/MMC)

Rear Panel overview



Rear panel description

Power inlet:

The mains power supply (110~240V AC / 50~60 Hz) has to be applied to this AC power inlet. The connection is made by an IEC C14 power connector which is fitted with a fuse. When replacing the fuse, make sure that the value of the replacement fuse matches the value of the original fuse. (T500mAL/250V)

RS232 control port:

The RS232 control port can be used for controlling the device through external hardware such as audiovisual installations, home & industrial automation systems, computers, ... The complete commands list for controlling the CMP30 through RS232 can be downloaded from the AUDAC website.

Variable audio output CD/MP3/Tuner:

The variable audio output can be switched between CD/MP3 or tuner mode and the output level (volume) can be adjusted. The selection and volume adjustment should be done using the rotary function dial. In most basic audio application where only one simultaneous source is required (either CD/MP3 or tuner), the variable audio output will be used.

Fixed audio output CD/MP3:

The signal on this output is dedicated to the CD/MP3 player, and has a constant line output level (the volume is not adjustable). This output can be used for audio applications where multiple sources are simultaneously used (CD/MP3 and tuner), such as Multi-Zone audio applications.

Fixed Audio Output Tuner:

The signal on this output is dedicated to the tuner, and has a constant line output level (the volume is not adjustable). This output can be used for audio applications where multiple sources are simultaneously used (CD/MP3 and tuner), such as Multi-Zone audio applications.

FM Antenna connection:

Connect the supplied FM antenna to those connectors to ensure a good FM reception. In case of bad reception, the connection of an external outdoor antenna or cable distribution can significantly improve the audio reception.

Chapter 3



Quick start guide

The CMP30 player is designed for installation into a rack (482 mm / 19") with a height of one single rack space (44.45 mm), but it can also be placed as a desktop unit. Before using the device, the connections of the CMP30 should be made properly. The audio output connections should be made with the RCA/Cinch connectors on the rear side of the device. depending of the application, the variable either the fixed Audio outputs (or both) should be used.

When the device is connected to a sound system where only one audio source will be used at a time, the variable audio output should be used. When connecting the CMP30 to a Multi-Channel amplifier or Pre-amplifier or when used in a Multi-Zone audio Matrix system, its recommended to use the fixed audio outputs, so both CD/MP3 and Tuner audio sources can be used simultaneous. After the audio connections are made, the mains power should be connected to the IEC input connector and the FM antenna should be connected to the provided connectors.

After all connections are made properly, the device can be switched on by pushing the power button. After the power button is pressed, the device will start working after some seconds.

To start playing music from CD/MP3, insert a CD, USB storage device or SD/MMC memory card to the slots on front of the device. When the media is inserted, the device will detect automatically and will start playing. You can select the playing tracks using the control buttons on front of the device. For switching to settings of another media source, press the function dial on front (The variable audio output will switch automatically to this media source).

The preferred radio station can be selected by pressing the  and  buttons. When pressing those buttons one time, it will search automatically to the previous or next radio station. When holding one of those buttons for three seconds, it will return to manual seek mode and you can select the radio station manual.

Chapter 4

Additional information

Technical specifications

Inputs		Audio compact disk slot (12 cm) USB Memory stick input SD/MMC Memory card input
Control		Front panel RS232
Outputs		2 x Fixed audio output (Tuner & CD/MP3) 1 x Variable audio output (Selectable)
Frequency range	FM MW	87.5 ~ 108 MHz 522 ~ 1620 kHz
Channel step	FM MW	50 kHz 9 kHz
Intermediate frequency	FM MW	10.7 MHz 455 kHz
Sensitivity	FM MW	2 μ V at 30 dB S/N 30 dB
Signal to noise ratio	FM MW CD/MP3	> 60 dB > 50 dB > 80 dB
Frequency response		20 Hz – 20 kHz
Audio codec		MPEG 1/2/5 Layer 2/3 decoding (8 kHz – 48 kHz) MWA V4, V7, V8, V9 (L1, L2) decoding (8 kHz – 48 kHz)
MP3/WMA compatible media		CD SD/MMC Memory cards (up to 16 GB / FAT32) USB Media (up to 16 GB / FAT32)
Output level	Fixed output Variable output	-10 dB - ∞ dB ~ 0 dB
Power supply		100 ~ 240 VAC / 50 ~ 60 Hz
Power consumption		10 Watt
Weight		3.82 Kg
Dimensions (W x H x D)		482 x 44 x 330 mm
Unit height		1 HE

