adertech

MPD-2CH



Dual Channel Media Player
USB/CD/DVD/FM/Bluetooth

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1. Introduction

ADERTECH MPD-2CH is a high quality multifunctional dual channel Media Player. It allows to play FM radio stations, digital audio content locally from USB, CD/DVD player or remotely via Bluetooth connection. Beside analog video outputs which allow using a video content from a DVD disk, player featured with dual independent analog unbalanced stereo audio outputs. One of these outputs allows to output signal from Group 1 Sources (CD/DVD/USB1) or Group 2 Sources (FM/Bluetooth/USB2) while the second output from Group 2 only. Using these outputs MPD-2CH player could feed as a source into the two different zones with different audio content at the same time. The control on all unit functions could be done directly from the front panel, using buttons and LCD displays or remotely by the included IR remote control. When a video output is being used, many of functions of Group 1 Sources could be easily controlled by the OSD menu. Different Repeat and Random playback modes are supported. This way MPD-2CH unit provides a versatile "hands off" background music solution for continuous playback of music or a choice of other sources for bars, cafes, restaurants, reception areas, sport centers and even the house parties. Player is equipped with universal power supply with wide range input voltages support from 110 to 240V. Unit housed in the compact 1RU chassis and ready for the standard 19 inches rack mounting.

2. Features

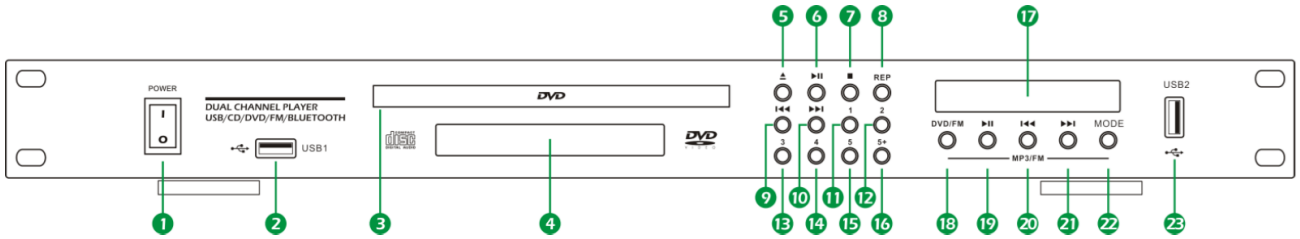
- CD/DVD/USB/FM Radio/Bluetooth Media Player
- Two Independent Stereo Audio Outputs
- Direct Audio and Video Outputs for USB1/CD/DVD Playback
- Digital S/PDIF and Composite/S-Video/Component Video interfaces for USB1/CD/DVD
- Fast and Simple control of the main functions directly from the front panel
- Two bright LED displays for Group 1 and Group 2 Sources Status and Control
- Included IR Remote for the full features control from a distance up to 8 meters
- OSD menu on video outputs for USB1/CD/DVD and system settings control
- Universal power supply
- Housed in compact chassis 1RU

3. Package Contents

1x Dual Channel Media Player
1x IR Remote
1x FM Antenna
1x 2x RCA cable (male-male), 1.5m 1x
AC Power Cord
1x User Manual

4. Unit's interfaces

4.1 Front Panel



N	Type	Description
1	Switch	Main Power Switch, Turn unit On/OFF
2	USB Connector	USB1 Port, Insert USB Disk with content
3	CD/DVD Slot	CD/DVD Disk Tray, Insert CD/DVD Disk with content
4	LED Display	Display for CD/DVD/USB1 Status and Play Control
5	Button ⏏	CD/DVD Tray Control, Press to Open/Close the Disk Tray
6	Button ⏯	Short Press to Play/Pause current Track
7	Button ■	Short Press to Stop current Track / Long Press to Switch Between DVD/USB1
8	Button **RPT**	Short Press to Change Repeat Mode (Off/Track/Folder/Disk)
9	Button ⏮	Short Press to Play Previous Track / Long Press Volume Decrease
10	Button ⏭	Short Press to Next Track / Long Press Volume Increase
11	Button **1**	Short Press to Play Track 1 / Double Short Press Track 11
12	Button **2**	Short Press to Play Track 2 / Double Short Press Track 22
13	Button **3**	Short Press to Play Track 3 / Double Short Press Track 33
14	Button **4**	Short Press to Play Track 4 / Double Short Press Track 44
15	Button **5**	Short Press to Play Track 5 / Double Short Press Track 55
16	Button **5+**	Short Press to Play Track 5+ / Double Short Press Track 10+
17	LED Display	DVD/FM/Bluetooth/USB Port 2, LED Status Display for Channel 2
18	Button **DVD/FM**	Short Press to Switch Between Group Sources for Output Channel 1
19	Button ⏯	Play Control, Press to Play/Pause current Track
20	Button ⏮	Short Press to Play Previous Track or FM Station / Long Press Volume Decrease Short
21	Button ⏭	Press to Next Track or FM Station / Long Press Volume Increase
22	Button **MODE**	Short Press to Switch Between Group 2 Sources / Long Press Change Repeat Mode USB2
23	USB Connector	Port, Insert USB Disk with content

Input Groups

The MPD-2CH player featured with two groups of sources which are:

Group 1 – includes the next sources **CD/DVD/USB1**. To switch between these sources – use the long press ■ (Button 7 on the Front panel) or **SOURCE** button on the IR Remote.

Using the numeric keys – enter the track number by short pressing on a number key, for example to enter track 17 from the front panel simply short press **5+** (Button 16) three times then **2** (Button 12) or key **10+** and then **7** key on the numeric section on the IR Remote Control. Playback Mode – use the short press **RPT** (Button 8) on the Front panel or **REPEAT** button on the IR Remote to switch between the available Repeat modes Off/ Track/Folder/Disk. The Random mode is also supported – use RANDOM button on the IR Remote Control.

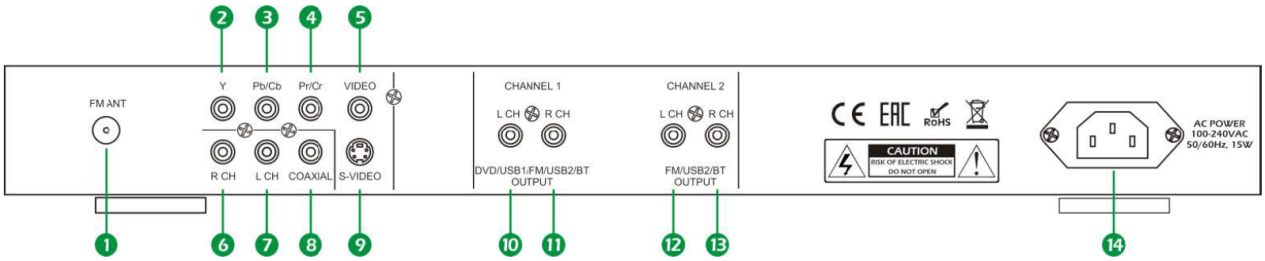
Controlling the Volume – use the long press ⏮/ ⏭ (Buttons 9/10 on the Front panel) or **Group 1** keys **-/+ VOL** on the IR Remote. The Volume control range is (0 … 15).

Group 2 – includes the next sources **FM Radio/Bluetooth/USB2**. To switch between the sources - short press **MODE** (Button 22) on the Front panel or IR Remote. In case, if a USB disk is inserted the playback will switch to it automatically.

Using the Bluetooth – search for the **BT_SDK_x** device, no PIN code is needed for connection. Playback mode - long press **MODE** (Button 22) on the Front panel or **REP/MEM** on the IR Remote to select between Off/Track/Folder/Track/Random/Disk modes.

Controlling the Volume – use Long press ⏮/ ⏭ (Buttons 20/21 on the Front panel) or Group 2 keys **-/+ VOL** on the IR Remote. The Volume control range is (0 … 30).

4.2 Rear Panel



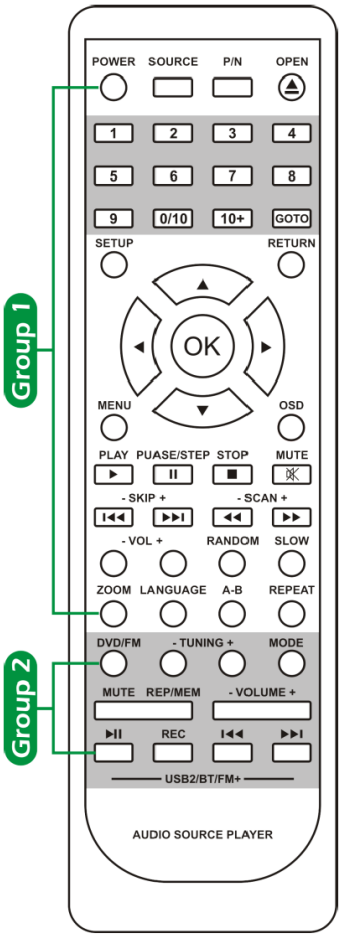
The rear panel of the unit is equipped with video and audio interfaces and power socket.

N	Type	Channel	Description
1	PAL FM Connector	FM Radio	FM Radio Antenna Terminal
2	RCA Green	CD/DVD/USB1	Component Video Output, Luminance Y Channel
3	RCA Blue		Component Video Output, Pb/Cb Channel
4	RCA Red		Component Video Output, Pr/Cr Channel
5	RCA Yellow		Composite Video Output
6	RCA Red		Analog Unbalanced Audio Output, Right Channel
7	RCA White		Analog Unbalanced Audio Output, Left Channel
8	RCA Black		Digital Audio Output, Coaxial S/PDIF Interface S-
9	S-Video		Video Output, Y/C
10	RCA White	Audio Channel 1	Analog Unbalanced Audio Output, Left Channel
11	RCA Red		Analog Unbalanced Audio Output, Right Channel
12	RCA White	Audio Channel 2	Analog Unbalanced Audio Output, Left Channel
13	RCA Red		Analog Unbalanced Audio Output, Right Channel
14	IEC C14	Power	AC Mains Socket

Output Channels

The left output section allows using composite, S-Video or component video formats to view video content from the USB/CD/DVD on a display. The digital output of the S/PDIF interface and analog stereo unbalanced output may be used at the same time.
Additionally to the USB1/CD/DVD video and audio outputs, the MPD-2CH unit features with two independent audio output channels:

- **Output Channel 1** could be switched between Group1 and Group2 sources by pressing the **DVD/FM** button on the front panel or IR Remote
- **Output Channel 2** could be used with Group 2 Sources only



4.3 IR Remote Control

The IR Remote control is realizing the complete feature control for the MPD-2CH player in the most simple and self intuitive way. Two Groups of sources control keys divided for easy understanding:

- The top keys are used for **Group 1** sources and include the OSD menu control for DVD, playback control and system settings for video and audio interfaces.
- The bottom leys are used to control **Group 2** Sources. Please be noted that FM Stations Frequencies should be selected and stored from IR Remote Control before switching between them from the front panel.

5. Best Practice

ADERTECH engineers design products at the highest quality standards. To get the best results and maximum performance from our products, please read this manual carefully. We recommend using high quality connectors, cables, and adapters only. Consider the points below when you choose accessories and position equipment.

6. Safety Instructions

WARNING: To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not use this device near water. Clean only with a dry cloth.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device. This unit must be connected to an earthed mains socket outlet with the supplied cable. The AC wall outlet should be installed near to the unit and be easily accessible.

If using cables or extenders which run a long distance, the protective earth circuit of the socket should be verified by a skilled person to ensure equipotential earth bonding. Do not use unit on objects or installations where power lines have grounding and/or different phase issues.

Unplug units during lightning storms or when unused for long periods of time.

Do not install unit near any heat sources such as radiators, heat registers, stoves, or devices (including amplifiers) that produce heat. Do not block any ventilation openings. This unit uses active cooling with fans. Do not install unit in dusty and/or dirty places. Use professional equipment racks with air condition and filters.

7. Warranty Information

ADERTECH warrants all units to be free from defects in workmanship and materials, under normal use and service, for a period of three (3) years from the date of purchasing from authorized reseller.
If a product does not work as it warranted during this period, ADERTECH will repair or replace the defective product or its part. Replacement products may be new or reconditioned.

Warranty ends if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or servicing other than by ADERTECH or its authorized centers, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

8. Specifications

SKU	MPD-2CH
Type	Media Player
Optical Drive	1x Standard Disk Tray with CD/DVD formats supported (front panel)
USB	2x USB A Socket, Media Player Content Ports (front panel)
FM-Radio	1x FM Pal, 75Ohm, (87.0 – 108.0MHz), External Antenna (rear panel)
Bluetooth	1x Internal Antenna
Interfaces	
Video Outputs	
Component	3x RCA, YPbPR/YCbCr, 720p/1080i/1080p, CD/DVD Drive Output
S-Video	1x mini DIN 4-pin, S-Video, Y/C, NTSC/PAL, CD/DVD Drive Output
Composite	1x RCA, CVBS, NTSC/PAL, CD/DVD Drive Output
Audio Outputs	
S/PDIF	1x RCA, S/PDIF Coaxial, 75Ohm, CD/DVD Drive Output
Stereo Audio	2x RCA, Stereo Audio Unbalanced, CD/DVD Drive Output 2x RCA,
Stereo Audio	Stereo Audio Unbalanced, Audio Output Channel 1 2x RCA,
Stereo Audio	Stereo Audio Unbalanced, Audio Output Channel 2
Control	
Local	Front Panel buttons with two LED displays
Remote	IR Remote
Electrically	
Power Consumption	15W (Max)
Power Supply	Internal, switching, AC 100 - 240V, 50/60Hz
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions (LxWxH)	484 x 250 x 44 mm (with rack ears), 1RU
Weight	2.4 kg
Environments	
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	10%~90% RH (non-condensing)

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