

McIntosh Laboratory, Inc., Binghamton, NY 13903
Design Engineering Department

PRODUCT PREVIEW

MCD205

5 DISC CD CHANGER

Project 1172

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PROMOTIONAL HIGHLIGHTS

- CD-ROM Style 5 Disc Music Bank Changer
- Low Distortion 24 Bit D/A Converter
- Balanced and Unbalanced Audio Outputs
- IR Remote Control with Front Panel Sensor
- Data Input for Remote Control from McIntosh Preamps and Control Centers
- RS232 Interface
- Optical and Coaxial Digital Outputs
- Non Volatile Program Play Memory
- Blue Alphanumeric Vacuum Florescent Display
- Gold Plated Input and Output Connectors
- Low Noise 1% Metal Film Resistors
- Power Control In and Out

- Shielded R-Core Power Transformer

FEATURES AND BENEFITS

CD-ROM STYLE 5 DISC MUSIC BANK CHANGER

A precision mechanism manufactured for use as a computer CD-ROM. It features an internal stocker that holds up to 5 Compact Discs. The direct loading design makes inserting and ejecting discs extremely easy. It does not require cumbersome magazines, nor does it have a disc tray. It's as easy to operate as the player in your car, yet has all the benefits of a changer.

LOW DISTORTION 24 BIT D/A CONVERTER

The MCD205 utilizes 24-bit D/A converters that offer wide dynamic range with extremely low distortion. Music at all levels is reproduced with extreme precision and elegance. The sound is truly exceptional.

BALANCED AND UNBALANCED OUTPUTS

Balanced for long cable runs in a noisy environment and unbalanced for short runs. Balanced offers optimum noise rejection.

IR REMOTE CONTROL

The MCD205 has the ability to be operated remotely from a hand held IR transmitter.

DATA INPUT FOR CONTROL FROM A McINTOSH PREAMP OR CONTROL CENTER

A 1/8" mini jack is provided for control data from the data output jack of a McIntosh Preamp or Control Center.

RS232 INTERFACE

An RS232 port is provided for control interface with other equipment.

OPTICAL AND COAXIAL DIGITAL OUTPUTS

Optical and coaxial digital outputs are provided for use with an external D/A converter.

NON VOLATILE PROGRAM PLAY MEMORY

A play program that has entered will not be lost if the power should fail.

BLUE VACUUM FLORESCENT DISPLAY

A BLUE ALPHANUMERIC VACUUM FLORESCENT DISPLAY matches the displays on other McIntosh equipment. It displays Disc, Track, Time and Play Mode information.

GOLD PLATED INPUT AND OUTPUT CONNECTORS

Gold plating is for superior corrosion resistance.

POWER CONTROL IN & OUT

Two 1/8" mini jacks are used for remote power control. A 5VDC signal from the power out jack of another piece of McIntosh equipment will turn ON the changer. After a short delay a 5VDC signal appears at the power out jack of the changer. This can be used to turn on another piece of equipment.

R-CORE POWER TRANSFORMER

The special construction of the R-Core power transformer minimizes hum radiation.

ENVIRONMENTALLY FRIENDLY POWER SWITCH

Another McIntosh feature, saves electricity. The MCD205 may be switched completely OFF when not in use. No need for STANDBY operation because the memories are permanent and require no power. However this switch must be in the ON position for REMOTE operation.

PERFORMANCE SPECIFICATIONS**SYSTEM**

Compact Disc digital audio

SIGNAL READOUT

Optical (semiconductor laser)

ERROR CORRECTION

CIRC

D/A CONVERTER

24-bit converter

SAMPLING FREQUENCY

44.1 kHz

QUANTIZATION

16-bit linear

DISC ROTATIONAL VELOCITY

200 to 500rpm (constant linear velocity)

WOW AND FLUTTER

Below measurement limits

FREQUENCY RESPONSE

+0, -0.50dB from 5Hz to 20KHz

TOTAL HARMONIC DISTORTION

0.002% maximum (1KHz)

SIGNAL TO NOISE RATIO

108dB (IHF A-WTD)

DYNAMIC RANGE

100dB (1KHz)

CHANNEL SEPARATION

105dB (1KHz)

OUTPUT SOURCE IMPEDANCE

600 ohms balanced and unbalanced.

MAXIMUM VOLTAGE OUTPUT

2.0VRMS at balanced outputs.

2.0VRMS at unbalanced outputs.

POWER REQUIREMENTS

100,120 or 230 VAC, 50-60Hz 25Watts

SIZE

Front panel measures 17-1/2 inches (44.4 cm) wide, by 5-3/8 inches (13.7 cm) high. Depth behind front panel is 15 inches (36.7cm) including 2 inch clearance for connectors.

FINISH

The front panel is black glass with gold/teal illuminated nomenclature. The chassis is totally enclosed.

FRONT PANEL INFORMATION

The illuminated glass front panel of the MCD205 CD CHANGER contains 1 entry door in the center with a loading slot behind it. There is a blue alphanumeric vacuum fluorescent display in the bottom center of the panel with 5 push buttons on the left side, four push buttons and a rocker switch on the right side.

DISPLAY

The display for the MCD205 is an alphanumeric vacuum fluorescent display that has the blue color of other McIntosh equipment displays. It displays TRACK number, TIME in min. and sec., DISC number and operating MODE.

PUSHBUTTON SWITCHES**OPEN/CLOSE**

The OPEN/CLOSE pushbutton operates the loading door.

DISC SELECT

This pushbutton selects the disc to be played. Push the button 5 times to cycle through the five loaded discs.

BACK

This push button selects the previous TRACK.

NEXT

This pushbutton selects the next TRACK.

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STOP

The STOP pushbutton stops play.

PAUSE

Push to PAUSE play.

PLAY

Push to PLAY.

STANDBY/ON

The red button switches the MCD205 from STANDBY to ON. When ON the panel and display will illuminate to indicate the operating conditions.

ENVIRONMENTALLY FRIENDLY ROCKER SWITCH

This switch saves electricity. When the system is not going to be used for a long period of time, vacation, etc, there is no need for the unit to be left in STANDBY. The MCD205 has a non-volatile memory so no power is required to maintain calibration, not even a battery.

However this switch must be in the ON position for remote operation of the MCD205. The red LED next to the STANDBY ON switch indicates STANDBY MODE. When the POWER switch is OFF all POWER is disconnected, the STANDBY power supply is OFF and the unit cannot be operated by remote control.

REAR PANEL INFORMATION

REAR PANEL INPUTS

1. International AC POWER input receptacle
2. POWER CONTROL IN
3. DATA IN
4. IR IN

REAR PANEL OUTPUTS

1. A pair of XLR and a pair of RCA connectors provide L & R balanced and unbalanced outputs.
2. A sub miniature "D" for RS232 interface.
3. POWER CONTROL OUT
4. A COAXIAL and an OPTICAL DIGITAL AUDIO OUTPUT





