



MAGNETAR

UDP800



THE WORLD CLASS REFERENCE LEVEL UNIVERSAL DISC/MEDIA PLAYER

MAGNETAR | UDP800 | Reference Level Universal Disc/Media Player



red dot design award
winner 2023

Cine/Audiophile Grade Image and Audio Processing

UDP800 is equipped with a high-powered quad-core MediaTek MT8581 processor, 12Gb Samsung DDR and 4Gb NAND; adopting a 6-layer PCB design, which shortens the signal path to reduce distortion while using many high-precision and quality LDO regulators, in conjunction with Murata MLCC multi-layer ceramic capacitors and NCC electrolytic capacitors, guaranteeing the stability of signal transmission and power supply, while improving image and sound quality.

Reference Level Picture and Sound

UDP800 supports Dolby Vision and HDR 10+ High dynamic image standards, allowing you to experience stunning Ultra high definition quality and enjoy more vivid and realistic movies and shows. UDP800 supports sound formats including Dolby Atmos and DTS-X, with a dedicated HDMI audio output terminal to achieve true audio and video separation, allowing users to enjoy superior sound effects for an unforgettable immersive surround experience.

For Pure Audio playback, UDP800 specifically adopts a 4-layer PCB circuit board. Each channel is designed with independent wiring, two independent Burr-Brown PCM1795 DAC processors are used for two-channel D/A decoding, processing left channel and right channel respectively. It is equipped with the high-quality MUSES8920 operation amplifier OP-AMP used to achieve audiophile sound quality. UDP800 is equipped with stereo XLR balanced terminals and stereo RCA gold-plated unbalanced outputs. Pure audio mode function is available to bring uncompromised sound quality to audiophiles.





Wide Range of Media Formats and Connections

Fully compatible with a variety of disc formats including 4K UHD BD, BD, BD-R, BD-RE, DVD-R/RW, DVD+R/RW, DVD-Video, DVD-Audio, AVCHD, SACD, CD, CD-R/RW. In addition, it can easily connect to numerous media resources through USB 3.0, supporting up to 16TB hard drive, sharing video, music, and pictures files through DLNA, SMB and NFS supporting a wide range of media formats including MKV, AVI, MP4, WAV, FLAC, APE, DSD, etc., users can easily play and manage media files in local and LAN storage devices.



Elegant and Solid Quality in Chassis Construction

The MAGNETAR engineering team understands that achieving exceptional audio and video performance requires high quality chassis construction and stability. UDP800 adopts a solid high-rigidity metal body and a reinforced double layer chassis structure. The internal main components are independently shielded by metal casing, greatly reducing vibration, noise and external magnetic field interference, bringing pure and high-resolution audio and video quality.

Customized High-Power Transformer

A custom 60W high-power low noise transformer was specially selected for the UDP800, with a two-stage filter design along with a multitude of Japanese Rubycon electrolytic capacitors are used to meet the high transient response required by surround sound systems and high-resolution audio. A separate metal case dampens noise providing stability and quietness, further enhancing the audio and video quality.



Technical Features

SUPPORTED MEDIA TYPES

- 4K UHD Blu-ray, Blu-ray, Blu-ray 3D, DVD-Video, DVD-Audio, AVCHD-SACD, CD, Kodak Picture CD, CD-R/RW, DVD±R/RW, DVD±R DL, BD-R/RE, BD-Live/BONUSVIEW
- M2TS, MP4, MKV, MOV, AVI, TP, TRP, TS, 3GP, ASF, OMG, WMV
- H264/AVC, H265/HEVC, MPEG-1/2/4, VC-1, VP-8, VP-9
- FLAC, M4A, MP3, OGG, AIF/AIFF, APE, DSF, AAC, ALAC
- JPG, TIFF

GENERAL SPECIFICATION

- Power Supply: AC 100-240V ~, 50/60Hz
- Power Consumption: <30W, Standby<0.5W
- Operating Temperature: 5°C ~ 35°C (41°F ~ 95°F)
- Operating Humidity: 15% ~ 75%
- Unit Dimensions: 430 x 300 x 90 mm
- Unit Weight: 6.8kg
- Unit Packing Dimensions: 516 x 391 x 203mm
- Unit Packing GW: 9.6kg

OUTPUT

- Analog Audio Output: 2-channel RCA and Balanced XLR
- Digital Audio Output: Optical, Coaxial, HDMI
- HDMI Audio Output: Support up to 7.1 channel 192kHz PCM, 5.1 Channel DSD
- HDMI Video Output: UHD 23.976/25/30/50/59.94/60Hz, 1080I/P, 720P, 576I/P, 480I/P, source direct

ANALOG AUDIO CHARACTERISTICS

- Frequency Range: 20Hz ~ 20kHz (±0.05dB)
- Signal-to-noise Ratio: ≥120dB
- Distortion Plus Noise: ≤0.001%
- Output Level: (RCA) 2. 1±0.2Vrms. (XLR) 4.2±0.4Vrms
- Dynamic range: 120dB
- Channel Separation: >100dB (RCA); >120dB (XLR)