



# MAGNETAR

# UDP900



## THE FLAGSHIP MULTI-AWARD WINNING REFERENCE LEVEL UNIVERSAL DISC/MEDIA PLAYER/USB DAC



### Cine/Audiophile Grade Image and Audio Processing

The latest designed 6-layer gold immersion main PCB circuit adopts high-precision, ultra-low noise TCXO temperature compensated crystal oscillator, doubling the high precision LDO power supply processing on the basis of UDP800. Murata multilayer ceramic capacitor TDK magnetic devices and 30 NCC electrolytic capacitors further improves audio and video quality. Both audio boards use 4-layer PCB circuit boards, each channel is designed with independent wiring, equipped with high precision, ultra-low phase noise TCXO temperature compensated crystal oscillator, numerous ELNA, NCC audio capacitors pairing with Red WIMA, ELNA SILMIC II capacitors, and independent high-power linear power supply module, Hi-Fi XLR balanced terminals and gold plated RCA outputs providing for better Audiophile sound quality.

### Reference Level Picture and Sound

UDP900 supports Dolby Vision and HDR 10+ high dynamic image standards. ESS9038PRO D/A decoding for 2-channel XLR balanced and RCA unbalanced outputs, ESS9028PRO D/A decoding for 7.1 RCA output. Support for XMOS USB Audio input.



MAGNETAR | UDP900 | Reference Level Universal Disc/Media Player





## 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

UDP900 adopts an all-aluminum alloy 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.



## Dual Power Supply Design

Customized high-power switching power supply with high transient response provides power for the digital main board section, 60W high-power low noise transformer 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.

60W toroidal transformer supplies power for analog audio. Using imported magnetic core, high quality oxygen-free copper wiring, metal shields and full epoxy filling is used to reduce vibration noise and heat generation improving output and audio 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

### OUTPUT

- Analog Audio Output: 7.1 Channel RCA, 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, 1080 I/P, 720P, 576I/P, 480I/P, source direct

### ANALOG AUDIO CHARACTERISTICS

- Frequency Range: HIFI 2 channel: 20Hz~80kHz ( $\pm 0.03\text{dB}$ ); multichannel: 20Hz~80kHz ( $\pm 0.05\text{dB}$ )
- Signal-to-noise ratio:  $\geq 120\text{dB}$ (2CH RCA);  $\geq 130\text{dB}$ (2CH XLR)
- Distortion Plus Noise:  $\leq 0.0005\%$
- Output Level: (RCA)  $2.1 \pm 0.2\text{Vrms}$ . (XLR)  $4.2 \pm 0.4\text{Vrms}$
- Dynamic range:  $\geq 120\text{dB}$ (2CH RCA);  $\geq 130\text{dB}$ (2CH XLR)
- Channel resolution:  $\geq 110\text{dB}$ (2CH RCA);  $\geq 140\text{dB}$ (2CH XLR)
- 6-layer PCM circuit board.
- Independent wiring for each channel.
- 1 ultra-low noise 100MHz TCXO temperature compensated crystal oscillators.
- 2 independent DAC processors.
  - ESS9038PRO D/A decoding for 2-channel XLR balanced and RCA unbalanced outputs-
  - ESS9028PRO D/A decoding for 7.1 RCA output
- Pure audio mode function.

### GENERAL SPECIFICATION

- Power Supply: AC 110-120V ~ 50/60Hz / AC 220-240V ~ 50/60Hz
- Power Consumption: <40W, Standby<0.5W
- Operating Temperature: 5°C ~ 35°C (41°F ~ 95°F)
- Operating Humidity: 15% ~ 75%
- Unit Dimensions: 445 x 321 x 133 mm
- Unit Weight: 15.4kg
- Unit Packing Dimensions: 550 x 470 x 265mm
- Unit Packing GW: 18.9kg