

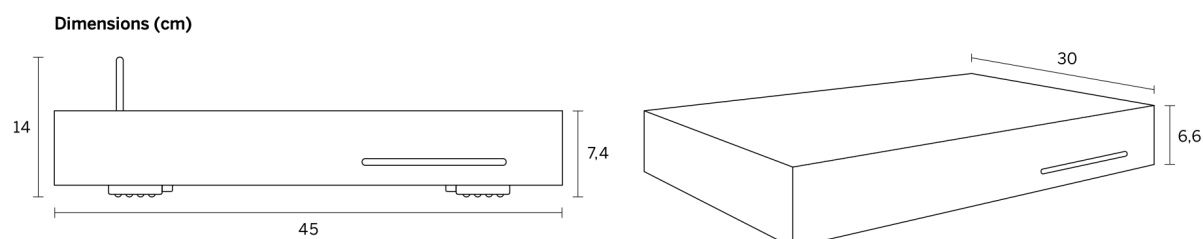
WEISS ENGINEERING Ltd

# MAN 301

## Music Archive Network player

### C aractéristiques / Specifications

#### Dimensions (cm)



#### Power

- Mains voltage: 100...240 V, the mains voltage is automatically switched
- Fuse rating: 4 A slow blow for all mains voltages
- Power consumption: 50 W max.
- Power consumption in standby: 0.5 W max.

#### Size

- Depth: 30 cm
- Width: 45 cm
- Height: 6,6 cm
- Height including feet: 7,4 cm
- Height including feet and WiFi antenna: approx. 14 cm

#### Available Colors

Silver, Black

## Digital Inputs

- (1) XLR connector
- (1) RCA connector
- (1) TOSLINK connector (optical)
- (2) Firewire 800 connectors
- All inputs accept professional or consumer standard, i.e. accept AES/EBU or S/PDIF signals
- Sampling frequencies: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz or 192 kHz on any of the inputs, except TOSLINK input: 96 kHz maximum
- Maximum input word-length: 24 Bits

## Digital Outputs

- (1) XLR connector
- (1) RCA connector
- (2) Firewire 800 connectors
- (1) USB connector
- Professional channel status data on the XLR and RCA outputs
- The dual wire mode can be activated for sampling frequencies of 176.4 kHz or 192 kHz exclusively

## Analog Outputs

- (2) XLR connectors (hot on pin 2), DC coupled, short circuit proof output circuitry, output impedance 44  $\Omega$
- (2) RCA connectors, DC coupled, short circuit proof output circuitry, output impedance 22  $\Omega$
- The output level is selectable via the iPad; four settings are provided as shown below:

### ***XLR Output:***

- 7.5 Vrms, +19.7 dBu, with a 0 dBFS sine wave input
- 2.3 Vrms, +9.7 dBu, with a 0 dBFS sine wave input
- 0.75 Vrms, -0.3 dBu, with a 0 dBFS sine wave input
- 0.23 Vrms, -10.3 dBu, with a 0 dBFS sine wave input

These levels are achieved with all faders/gain trims set to maximum level.

### ***RCA Output:***

- 3.75 Vrms, +13.7 dBu, with a 0 dBFS sine wave input
- 1.15 Vrms, +3.7 dBu, with a 0 dBFS sine wave input
- 0.375 Vrms, -6.3 dBu, with a 0 dBFS sine wave input
- 0.115 Vrms, -16.3 dBu, with a 0 dBFS sine wave input

These levels are achieved with all faders/gain trims set to maximum level.

## Synchronization

- Via the input signal
- Via the internal oscillator
- Via a word-clock signal (TTL level/75  $\Omega$ ) on the BNC input

- Sampling frequencies: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz
- Word-clock output (TTL level/75  $\Omega$ ) on BNC for synchronization of other equipment

### **Measurements (internal DAC option installed)**

The measurements below have been taken at the following conditions (unless noted otherwise): 1 kHz measurement frequency, maximum selectable output level, 192 kHz sampling frequency ( $F_s$ ), 22 kHz measurement bandwidth, unweighted, 0 dBr equals the output level at 0 dBFS input.

#### ***Frequency Response:***

- $F_s = 44.1$  kHz, Filter A, 0 Hz...20 kHz: within  $\pm 0.25$  dB
- $F_s = 44.1$  kHz, Filter B, 0 Hz...20 kHz: within  $\pm 1.3$  dB
- $F_s = 88.2$  kHz, Filter A, 0 Hz...20 kHz: within  $\pm 0.25$  dB
- $F_s = 88.2$  kHz, Filter A, 0 Hz...40 kHz: within  $\pm 0.8$  dB
- $F_s = 88.2$  kHz, Filter B, 0 Hz...20 kHz: within  $\pm 0.25$  dB
- $F_s = 88.2$  kHz, Filter B, 0 Hz...40 kHz: within  $\pm 1.5$  dB
- $F_s = 176.4$  kHz, Filter A, 0 Hz...20 kHz: within  $\pm 0.25$  dB
- $F_s = 176.4$  kHz, Filter A, 0 Hz...40 kHz: within  $\pm 0.8$  dB
- $F_s = 176.4$  kHz, Filter A, 0 Hz...80 kHz: within  $\pm 2.5$  dB
- $F_s = 176.4$  kHz, Filter B, 0 Hz...20 kHz: within  $\pm 0.25$  dB
- $F_s = 176.4$  kHz, Filter B, 0 Hz...40 kHz: within  $\pm 0.8$  dB
- $F_s = 176.4$  kHz, Filter B, 0 Hz...80 kHz: within  $\pm 3.5$  dB

#### ***Total Harmonic Distortion plus Noise (THD+N):***

- 116 dBr (0.00016 %) at  $-3$  dBFS input level
- 125 dBr (0.000056 %) at  $-40$  dBFS input level
- 125 dBr (0.000056 %) at  $-70$  dBFS input level

#### ***Linearity:***

At 0 dBFS to  $-120$  dBFS input level: less than  $\pm 0.4$  dB deviation from ideal

#### ***Spurious components (including harmonics):***

- At 0 dBFS input level, maximum output level, 1 kHz, all components at less than  $-120$  dBr
- At 0 dBFS input level, maximum output level, 4 kHz, all components at less than  $-115$  dBr

#### ***Crosstalk:***

Better than 120 dB, 20 Hz...20 kHz

#### ***Interchannel Phase Response:***

- $\pm 0.05^\circ$  20 Hz...20 kHz
- $\pm 0.30^\circ$  20 Hz...80 kHz
- 

#### **Supported file formats for playback**

- wav 44.1...192 kHz, 8...32 Bit, float, double
- aiff 44.1...192 kHz, 8...32 Bit, float, double

- m4a/alac 44.1...192 kHz, 16...32 Bit
- m4a/aac 44.1...96 kHz
- flac 44.1...192 kHz, 16...24 Bit (32 not tested/unknown)
- ogg/vorbis
- wma 44.1...48 kHz
- wav (wavepack) 44.1...192 kHz, 8...32 Bit
- dsf (dsd format) with 2.8224 Mbit/s or 5.6448 Mbit/s data rate
- dsdiff (dsd format) with 2.8224 Mbit/s or 5.6448 Mbit/s data rate

All specifications are from WEISS Engineering Ltd and can be modified without prior notice

Manufacturer warranty: 3 years

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