

TECHNICAL DATA LAP-2.V3

Unless stated otherwise, at monitor output, measured at 10 kΩ load, gain 0 db and input gain + 6 dBu, electric outlet voltage at 230V. Values in brackets () are measured at +18 dBu input gain. Audio analyzers used: R&S UPV and UPL as well as Audio Precision 2722 for noise, THD and THD+N measurement

MONITOR and RECORD SIGNAL PATH :

Max. input level:	+ 25 dBu (THD < 0,1%)
Input impedance :	2 MΩ independent from input choice
Input capacity :	15 pF independent of input choice
Max. output level :	+ 25 dBu at 10 kΩ load
Output impedance Monitor :	62 Ω
Output impedance Record :	62 Ω
max. output load :	300 Ω at $U_{a_{max}}$ +21 dBu, 600 Ω at $U_{a_{max}}$ +23 dBu
Frequency range :	1 Hz...200 kHz < ± 0,5 dB 10 Hz ...20 kHz < ± 0,01 dB
Low level response :	0,5 Hz...> 1 MHz < +1/-3 dB
Hi level response :	2 Hz...200 kHz < ± 0,1 dB
Absolute phase course :	20 Hz ...20 kHz < ± 2°
Relative phase course left < > right :	20 Hz ...20 kHz < ± 0,2°
Non-linear distortion (THD $k_2...k_9$) 1 kHz :	< 0,00008 % / <-122 dB typ. < 0.00006 % / <-124 dB (< 0,00020 %)
Non-linear distortion + noise (THD+N) :	1kHz <0,00025 % 10kHz <0,00045 % (1kHz <0,00025 % 10kHz <0,0004 %)*
Non-linear distortion + noise (THD+N) :	1kHz +12 dBu < 0,00015 % / < -116 dB !*
Differential signal distortion 10,5 kHz	< 0,00008 % (< 0,00015 %)
Intermodulation distortion 60 Hz/8 kHz, 4:1 :	< 0,0005 % (< 0,001 %)
Dynamic intermodulation distortion (TIM) DIM100	< 0,0003 % f = 3,15 kHz / 15 kHz (< 0,0007 %)
Crosstalk input/output:	1 kHz > 115 dB 15 kHz > 102 dB
Crosstalk left < > right :	1 kHz > 120 dB 15 kHz > 105 dB
max. amplification input > output :	0 dB (with additional input gain 0...+15 dB)
Gain deviation input/input :	< ± 0,02 dB typ.
Gain deviation left < > right :	< ± 0,01 dB typ. with volume at max.
Level controller setting range :	+ 0 dB ...- 95 dB
uniformity of level controller L < > R (+0...-40 dB):	< ± 0,5 dB
Voltage Noise MONITOR-OUT weighted :	- 112,5 dBu „A“-weighted effective
Foreign Voltage MONITOR-OUT unweighted :	- 109,0 dBu 20 Hz..20 kHz effective (CCIR468-3 unweighted)
Voltage Noise RECORD-OUT weighted :	- 112,5 dBu „A“-weighted effective
Voltage Noise RECORD-OUT unweighted :	- 109,0 dBu 20 Hz..20 kHz effective (CCIR468-3 unweighted)
Dynamic range MONITOR OUT (S/N) :	137,5 dB „A“-weighted effective 134 dB 20 Hz..20 kHz effective (CCIR unweighted)

HEADPHONE AMPLIFIER :

Maximum input level :	+ 25 dBu
Maximum power output :	2 x 265 mW at 300 Ω
Output impedance :	< 2 Ω
Max capacitive load :	5 nF
Output voltage under load :	11,0 V/600 Ω 9,0 V/300 Ω 6,0 V/150 Ω 2,35 V/62 Ω 1,1 V/32 Ω
THD+N Non-linear distortion + Noise:	$P_{OUT} = 2x 250 mW$ at 300 Ω 1 kHz ≤ 0,0003 % 10 kHz ≤ 0,0007 %
Frequency range :	20 Hz ...20 kHz < +/- 0,02 dB
Voltage Noise „A“ weighted (gain = 0 dB) :	< -111,0 dBu
Foreign Voltage 20 Hz..20 kHz effective (gain 0 dB) :	< -108,0 dBu 20 Hz..20 kHz effective (CCIR-468 unweighted)
Power supply :	230V / 50..60 Hz (115V 60 Hz available optional)
Power consumption typically.:	4,7 W
Power consumption maximum.:	8,5 W
Protection class :	2
Dimensions :	210 x 172 x 42 (length x width x height without buttons and sockets)
Weight :	1,5 kg front panel gold or chrome plated : 1,65 kg
Chassis finishes :	Steel and aluminum chassis white (RAL7035) or black, side profiles aluminum or black
Front panel version :	white, ruby coloured, blue, silver, shades of gold, anodized black, gold or chrome plated
Warranty :	3 years parts and labour

* Measurement bandwidth THD + N at 1 kHz : 20 Hz..20 kHz, at 10 kHz : 20 Hz...80 kHz