

NAD

MUSIC BY DESIGN



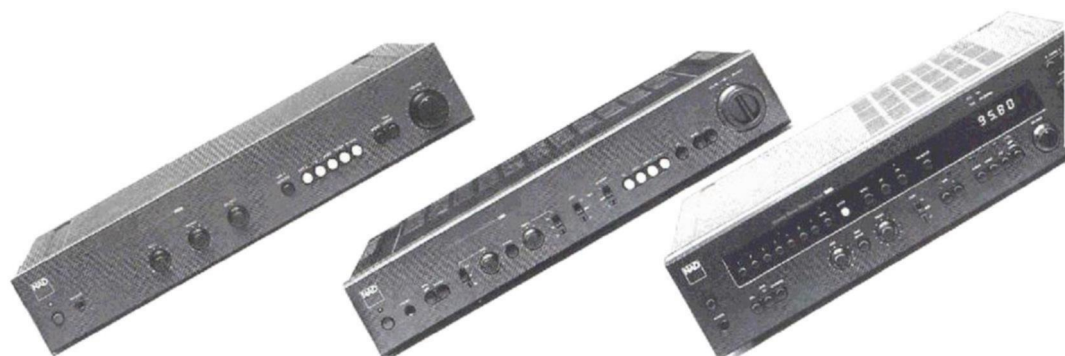
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AUDIO PRODUCT HIGHLIGHTS

NAD

*Preamplifiers
Preamplifier/Tuners
Power Amplifiers
Integrated Amplifiers
Tuners
Receivers*

Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202) for amplifiers and ANSI-IEEE Standard 185 (1975), i.e. IHF T-200, for tuners. Amplifier measurements referred to 8 ohms are taken with the Speaker Impedance selector set to 8Ω (High). Measurements for 4 and 2 ohms are taken with Impedance selector at 4Ω (normal).



1000 Monitor Series Preamplifier

- TONE DEFEAT SWITCH FOR ACCURATE, FLAT RESPONSE
- DISCRETE PHONO PREAMP WITH MM/MC SWITCH FOR PHONO INPUT
- LOW IMPEDANCE OUTPUT DRIVES LONG CABLES OR PROFESSIONAL EQUIPMENT
- EXTREMELY LOW NOISE, 105 dB DYNAMIC RANGE IN EVERY STAGE
- GOLD-PLATED PHONO AND CD INPUT JACKS
- SEPARATE HEADPHONE AMPLIFIER

1300 Monitor Series Preamplifier

- SEMI-PARAMETRIC TONE CONTROLS WITH TONE BYPASS
- EXTERNAL PROCESSOR LOOP (EPL)
- 2-WAY TAPE DUBBING
- 8 TRANSISTOR DISCRETE PHONO PREAMP
- MM/MC SWITCH ON DISCRETE 8 TRANSISTOR PHONO PREAMP
- SWITCHABLE CARTRIDGE CAPACITANCE LOADING
- BASS EQ
- SWITCHABLE INFRASONIC FILTER
- SWITCHABLE NULL CIRCUIT

1600 Monitor Series Preamplifier/Tuner

- TONE DEFEAT
- EXTERNAL PROCESSOR LOOP (EPL)
- 2-WAY TAPE DUBBING
- MM/MC SWITCH ON DISCRETE 4 TRANSISTOR PHONO PREAMP
- FM BLEND
- REMOTE CONTROL, INCLUDING MOTOR DRIVEN VOLUME CONTROL
- GOLD-PLATED PHONO AND CD INPUT JACKS

SPECIFICATIONS

CONTINUOUS AVERAGE POWER OUTPUT INTO 8 OHMS (Min. power per channel, 20Hz - 20kHz, both channels driven, with no more than rated distortion).
Rated Distortion (THD 20Hz - 20kHz)
Clipping power at 8 ohms, 1kHz (maximum continuous power per channel)
IHF dynamic headroom at 8 ohms
IHF dynamic power (maximum short term power per channel)

8 ohms
4 ohms
2 ohms

Damping Factor 8Ω/50Hz

PREAMPLIFIER SECTION

PHONO INPUT
Input impedance
Input sensitivity, 1kHz
Signal/Noise ratio (A-weighted with cartridge connected)

MM:
MC:
MM:
MC:

47kΩ + 200pF
1.5mV
76dB ref. 5mV
76dB ref. 5mV

47kΩ + 200pF
1.3mV
78dB ref. 0.5mV
80dB ref. 5mV

47kΩ + 100pF
1.3mV
75dB ref. 5mV
75dB ref. 0.5mV

THD (20Hz - 20kHz) and IM dist
RIAA response accuracy

<0.04%
±0.5dB

<0.02%
±0.3dB

<0.04%
±0.5dB

LINE LEVEL INPUTS (Tuner, CD, Aux, Video, Tape)

Input impedance
Input sensitivity
Signal/Noise ratio, A-weighted

20kΩ + 450pF
80mV
96dB ref. 0.5VB

100kΩ + 220pF
80mV
100dB ref. 0.5VB

50kΩ + 500pF
80mV
100dB ref. 0.5VB

Frequency response, 20Hz - 20kHz
Infrasonic filter

±0.2dB
-2dB at 12Hz/12dB/octave (switchable)

±0.3dB
-3dB at 14Hz/18dB/octave (switchable)

±0.2dB
-2dB at 12Hz/12dB/octave (fixed)

THD

<0.01%

<0.01%

<0.04%

LINE LEVEL OUTPUTS

Output impedance

Pre Out
Tape Source
Phones

220Ω
Source Z + 3200Ω
120Ω

150Ω
1000Ω
68Ω (will drive all headphone impedances)

600Ω
100Ω (buffered)
180Ω

Maximum output level

Pre Out
Tape
Phones

>12V
>10V
>8V into 600Ω
>250mV into 8Ω

>12V
>12V
>12V into 600Ω
>12V into 600Ω; 1V into 8Ω

>10V
>10V
>8V into 600Ω
>250mV into 8Ω

FM TUNER SECTION

Input sensitivity

Mono, -30dB THD+N
Mono, 50dB S/N
Stereo, 50dB S/N
Stereo, 60 dB S/N

11dBf (1.0μV/75Ω)

11dBf (1.0μV/75Ω)
36dBf (7.0μV/75Ω)

Capture ratio (45 and 65dBf)
Selectivity

Alternate channel

<1.6dBf
68dB
60dB

<1.6dBf
68dB
60dB

Subcarrier suppression (19 and 38kHz)
THD at 100% modulation

Mono, 1kHz
Stereo, 1kHz

<0.1%
<0.1%

<0.1%
<0.1%

Signal/Noise ratio (at 65dBf, IHF weighted)

Mono
Stereo

82dB
76dB

82dB
76dB

Frequency response, 30Hz - 15kHz
Stereo separation, FM NR off

1kHz

±0.5dB
50dB

±0.5dB
50dB

AM TUNER SECTION

Useable sensitivity

Selectivity

Image rejection

Signal/Noise ratio (30% modulation, 50mV input)

THD

5μV
35dB
50dB
45dB
0.5%

5μV
35dB
50dB
45dB
0.5%

5μV
35dB
50dB
45dB
0.5%

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)

43.5 x 8.1 x 26.3cm
(10.5 x 3.25 x 17.1in.)

43.5 x 7.5 x 25cm
(17 x 3 x 10in.)

43.5 x 11 x 38.9cm
(17.1 x 4.35 x 15.3in.)

Net weight

Shipping weight

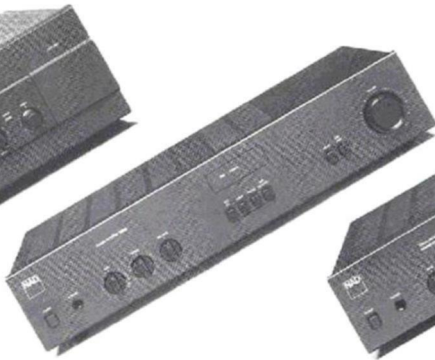
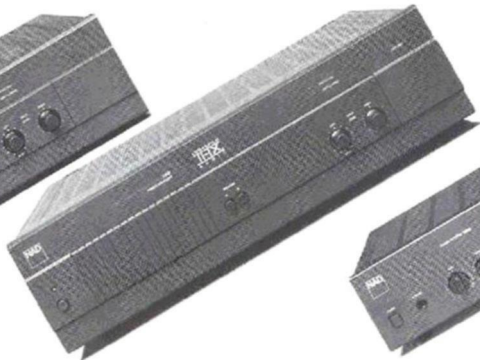
Power Consumption at 120 VAC 60Hz

3.7kg (8lb 1oz)
4.4kg (9lb 11oz)
17W

4.3kg (9lb 8oz)
5kg (11lb)
20W

6.25kg (13lb 12oz)
7.8kg (17lb 3oz)
30W

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2100X Monitor Series Power Amplifier

- 60W RMS, POWER ENVELOPE TECHNOLOGY
- 330W DYNAMIC POWER
- +6dB IHF DYNAMIC HEADROOM
- INPUT LEVEL CONTROLS
- A, B, AND A + B SPEAKER SWITCHING
- ADAPTIVE SOFT CLIPPING™
- BRIDGEABLE
- LAB AND NORMAL INPUTS

2400THX Monitor Series Power Amplifier

- 100W RMS, POWER ENVELOPE TECHNOLOGY
- 440W DYNAMIC POWER
- +5.7dB IHF DYNAMIC HEADROOM
- INPUT LEVEL CONTROLS
- A, B, AND A + B SPEAKER SWITCHING
- ADAPTIVE SOFT CLIPPING™
- BRIDGEABLE
- LAB AND NORMAL INPUTS
- **CERTIFIED FOR THX HOME THEATER USE BY LUCAS FILM LTD.**

3020i Integrated Amplifier

- 20W RMS
- +3dB DYNAMIC HEADROOM
- SOFT CLIPPING™
- DISCRETE 4 TRANSISTOR PHONO PREAMP
- SPEAKER IMPEDANCE SELECTOR
- PRE-OUT/MAIN-IN
- 5-WAY SPEAKER BINDING POSTS
- GOLD-FLASHED PHONO INPUT JACKS

3225PE Integrated Amplifier

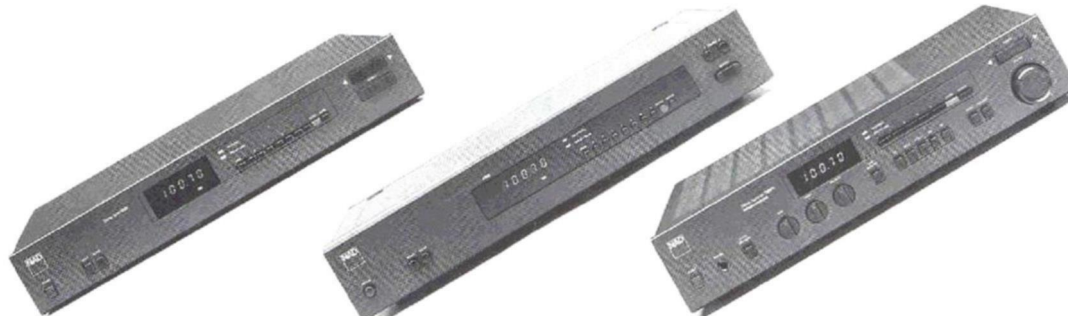
- 25W RMS, POWER ENVELOPE TECHNOLOGY
- 85W DYNAMIC POWER
- +4dB IHF DYNAMIC HEADROOM
- SOFT CLIPPING™
- DISCRETE 4 TRANSISTOR PHONO PREAMP
- SPEAKER IMPEDANCE SELECTOR
- PRE-OUT/MAIN-IN
- 5-WAY SPEAKER BINDING POSTS
- GOLD-FLASHED PHONO INPUT JACKS

3240PE Integrated Amplifier

- 40W RMS, POWER ENVELOPE TECHNOLOGY
- 200W DYNAMIC POWER
- +6dB IHF DYNAMIC HEADROOM
- SOFT CLIPPING™
- SPEAKER IMPEDANCE SELECTOR
- PRE-OUT/MAIN-IN
- 5-WAY SPEAKER BINDING POSTS
- BASS EQ
- INFRASONIC FILTERING
- GOLD-FLASHED PHONO INPUT JACKS

60W (17dBW)	100W (20dBW)	20W (13dBW)	25W (14dBW)	40W (16dBW)
0.03%	0.03%	0.03%	0.03%	0.03%
70W	130W	30W	40W	50W
+ 5.5dB	+ 5.7dB	+ 3dB	+ 4dB	+ 6dB
200W (23dBW)	370W (25.7dBW)	40W (16dBW)	60W (18dBW)	160W (22dBW)
250W (24dBW)	400W (26dBW)	40W (16dBW)	85W (19dBW)	200W (23dBW)
330W (25dBW)	440W (26.4dBW)	50W (17dBW)	90W (19.5dBW)	250W (24dBW)
>100	>100	>30	>50	>50
		R=47kΩ, C=100pF 2.4mV ref. 20W 75dB ref. 5mV	R=47kΩ, C=100pF 2.5mV ref. 25W 75dB ref. 5mV	R=47kΩ, C=100pF 3.2mV ref. 40W 76dB ref. 5mV
		<0.04%	<0.04%	<0.04%
		±0.5dB	±0.5dB	±0.5dB
10kΩ + 600pF 0.85V 100/117dB ref. 1W/50W	20kΩ + 600pF 1.0V 98/118dB ref. 1W/100W	R=40kΩ, C=100pF 150mV ref. 20W 87dB ref. 1W 100dB ref. 20W +0.5, -1.0dB -3dB at 12Hz, 18dB/octave (fixed)	R=40kΩ, C=100pF 160mV ref. 25W 85dB ref. 1W 99dB ref. 25W +0.5, -1.0dB -3dB at 15Hz, 24dB/octave (fixed)	R=15kΩ, C=100pF 160mV ref. 40W 88dB ref. 1W 104dB ref. 40W +0.5dB -3dB at 12Hz, 12dB/octave (switchable)
<0.03%	<0.03%	0.01%	0.01%	0.01%
		600Ω Source Z + 2000Ω 220Ω 12V 10V >10V into 600Ω >500mV into 8Ω	600Ω Source Z + 2000Ω 220Ω 12V 10V >10V into 600Ω >500mV into 8Ω	600Ω Source Z + 2000Ω 220Ω 12V 10V >10V into 600Ω >500mV into 8Ω
43.5 x 10.6 x 38.9cm (17.1 x 4.2 x 15.3in.)	43.5 x 12.7 x 38.9cm (17.1 x 5 x 15.3in.)	42 x 9.1 x 27cm (16.5 x 3.6 x 10.6in.)	42 x 9.1 x 27cm (16.5 x 3.6 x 10.6in.)	42 x 10.8 x 38cm (16.5 x 4.26 x 15in.)
9.52kg (21lb)	10kg (22lb)	5.55kg (12lb 2oz)	5.55kg (12lb 2oz)	6.7kg (14lb 12oz)
10.88kg (25lb)	12.02kg (26lb 5oz)	6.4kg (14lb 2oz)	6.4kg (14lb 2oz)	8kg (17lb 10oz)
330W	390W	150W	150W	230W

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4225 Tuner

- ULTRA-LINEAR I.F. FILTERS
- SWITCHABLE BLEND CIRCUIT
- S/N RATIO >75dB (STEREO)
- 14 RANDOM AM/FM PRESETS

4100 Monitor Series Tuner

- ULTRA-LINEAR I.F. FILTERS
- SWITCHABLE BLEND CIRCUIT
- S/N RATIO >75dB (STEREO)
- 14 RANDOM AM/FM PRESETS

7020i Receiver

- 20W RMS
- 3dB DYNAMIC HEADROOM
- SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- SPEAKER IMPEDANCE SELECTOR
- 5-WAY SPEAKER BINDING POSTS
- GOLD-FLASHED PHONO INPUT JACKS

SPECIFICATIONS

CONTINUOUS AVERAGE POWER OUTPUT INTO 8 OHMS
(Min. power per channel, 20Hz - 20kHz, both channels driven, with no more than rated distortion).

Rated Distortion (THD 20Hz - 20kHz)

Clipping power at 8 ohms, 1kHz

(maximum continuous power per channel)

IHF dynamic headroom at 8 ohms

IHF dynamic power

(maximum short term power per channel)

Damping Factor 8Ω/50Hz

8 ohms
4 ohms
2 ohms

20W (13dBW)

0.03%
30W

+3dB
40W(16dBW)
40W(16dBW)
50W(17dBW)
>30

PREAMPLIFIER SECTION
PHONO INPUT

Input impedance

Input sensitivity, 1kHz

Signal/Noise ratio
(A-weighted with cartridge connected)

THD (20Hz - 20kHz) and IM dist
RIAA response accuracy

MM:
MC:
MM:
MC:

R=47kΩ, C=100pF
2.4mV ref. 20W
75dB ref. 5mV

<0.04%
±0.5dB

LINE LEVEL INPUTS (Tuner, CD, Aux, Video, Tape)

Input impedance

Input sensitivity

Signal/Noise ratio, A-weighted

Frequency response, 20Hz - 20kHz
Infrasonic filter

THD

R=40kΩ, C=100pF
150mV ref. 20W
87dB ref. 1W
100dB ref. 20W
+0.5, -1.0dB
-3dB at 12Hz, 18dB/octave (fixed)

LINE LEVEL OUTPUTS

Output impedance

Maximum output level

Pre Out
Tape Source
Phones

Pre Out
Tape
Phones

600Ω
Source Z + 2000Ω
220Ω
12V
10V
> 10V into 600Ω
> 500mV into 8Ω

FM TUNER SECTION

Input sensitivity

Mono, -30dB THD+N
Mono, 50dB S/N
Stereo, 50dB S/N
Stereo, 60 dB S/N

11.3dBf (2.0μV/300Ω)
37dBf(40μV/300Ω)

11.3dBf (1.0μV/75Ω)
37dBf(20μV/75Ω)

11.3dBf (2.0μV/300Ω)
15dBf (3.0μV/300Ω)
37dBf (40μV/300Ω)
47dBf (120μV/300Ω)

Capture ratio (45 and 65dBf)

Selectivity

Subcarrier suppression (19 and 38kHz)

THD at 100% modulation

Signal/Noise ratio (at 65dBf, IHF weighted)

Frequency response, 30Hz - 15kHz

Stereo separation, FM NR off

Alternate channel

Mono, 1kHz

Stereo, 1kHz

Mono

Stereo

1kHz

<2.0dB
65dB
60dB
0.09%
0.09%
>80dB
>75dB
±0.5dB
50dB

<2.0dB
65dB
60dB
0.09%
0.09%
>80dB
>75dB
±0.5dB
50dB

< 1.5dB
58dB
60dB
0.1%
0.1%
> 80dB
> 74dB
± 0.5dB
45dB

AM TUNER SECTION

Useable sensitivity

Selectivity

Image rejection

Signal/Noise ratio (30% modulation, 50mV input)

THD

5μV
30dB
35dB
45dB
0.3%

5μV
35dB
30dB
45dB
0.3%

5μV
30dB
45dB
45dB
0.5%

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)

Net weight

Shipping weight

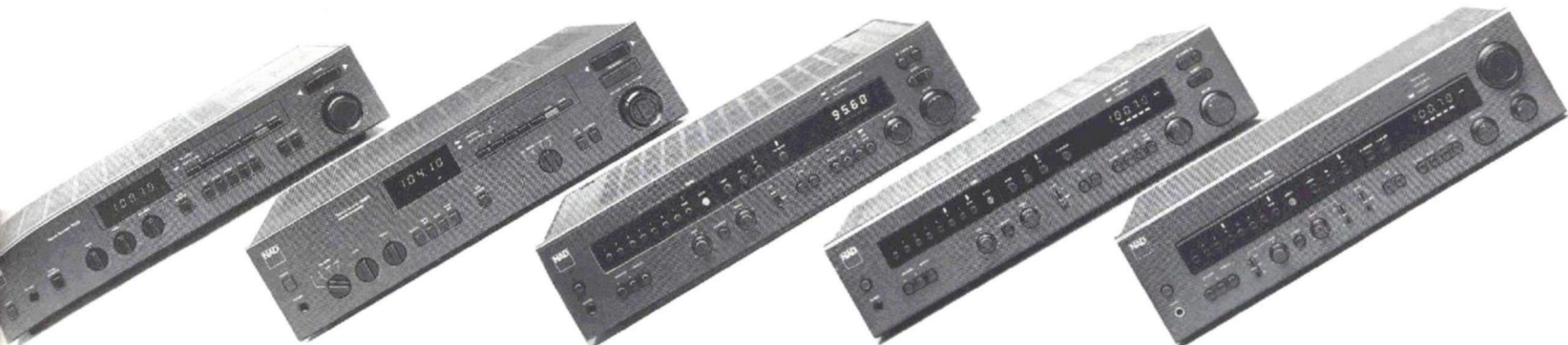
Power Consumption at 120 VAC, 60Hz

42 x 7.62 x 25cm
(16.5 x 3 x 10in.)
3.2kg (7lb 1oz)
4.1kg (9lb 1oz)
10W

43.5 x 8.1 x 26.3cm
(17.1 x 3.2 x 10.3 in.)
3.4kg (7lb 8oz)
4.4kg (9lb 11oz)
10W

42 x 9.1 x 27.3cm
(16.5 x 3.2 x 10.75in.)
5.5kg (12lb 2oz)
6.8kg (15lbs)
150W

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7225PE Receiver

- 25W RMS, POWER ENVELOPE TECHNOLOGY
- 85W DYNAMIC POWER
- +4dB IHF DYNAMIC HEADROOM
- SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- SPEAKER IMPEDANCE SELECTOR
- 5-WAY SPEAKER BINDING POSTS
- GOLD-FLASHED PHONO INPUT JACKS

7240PE Receiver

- 40W RMS, POWER ENVELOPE TECHNOLOGY
- 200W DYNAMIC POWER
- +6dB IHF DYNAMIC HEADROOM
- SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- 5-WAY SPEAKER BINDING POSTS
- BASS EQ
- SPEAKER IMPEDANCE SELECTOR
- FM NOISE REDUCTION

7000 Monitor Series Receiver

- 40W RMS, POWER ENVELOPE TECHNOLOGY
- 200W DYNAMIC POWER
- +6dB IHF DYNAMIC HEADROOM
- SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- 5-WAY SPEAKER BINDING POSTS
- BASS EQ
- SPEAKER IMPEDANCE SELECTOR
- MM/MC SWITCH ON DISCRETE 4 TRANSISTOR PHONO PREAMP
- GOLD-FLASHED PHONO INPUT JACKS
- FM BLEND
- 14 RANDOM AM & FM PRESETS
- FULL FUNCTION REMOTE CONTROL

7100X Monitor Series Receiver

- 60W RMS, POWER ENVELOPE TECHNOLOGY
- 330W DYNAMIC POWER
- +6dB IHF DYNAMIC HEADROOM
- ADAPTIVE SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- BASS EQ
- SPEAKER IMPEDANCE SELECTOR
- BRIDGEABLE WITH 2100X
- MM /MC SWITCH ON DISCRETE 4 TRANSISTOR PHONO PREAMP
- GOLD PLATED PHONO INPUT JACKS
- FM NOISE REDUCTION
- 14 RANDOM AM & FM PRESETS
- FULL FUNCTION REMOTE CONTROL

7400 Monitor Series Receiver

- 100W RMS, POWER ENVELOPE TECHNOLOGY
- 440W DYNAMIC POWER
- +5.7dB IHF DYNAMIC HEADROOM
- ADAPTIVE SOFT CLIPPING™
- PRE-OUT/MAIN-IN
- SEMI PARAMETRIC TONE CONTROLS
- BASS EQ
- SPEAKER IMPEDANCE SELECTOR
- BRIDGEABLE WITH 2400THX
- MM /MC SWITCH ON DISCRETE 4 TRANSISTOR PHONO PREAMP
- GOLD PLATED PHONO INPUT JACKS
- FM NOISE REDUCTION
- 14 RANDOM AM & FM PRESETS
- FULL FUNCTION REMOTE CONTROL

25W (14dBW)	40W (16dBW)	40W	60W	100W
0.03% 40W	0.03% 50W	0.03% 50W	0.03% 70W	0.03% 130W
+6dB 60W (18dBW) 85W (19dBW) 90W (19.5dBW) >50	+6dB 160W(22dBW) 200W(23dBW) 250W(24dBW) >50	+6dB 160W (22dBW) 200W (23dBW) 250W (24dBW) >50	+5.5dB 200W(23dBW) 250W(23dBW) 330W(24dBW) >100	+5.7dB 370W (25.7dBW) 400W (26dBW) 440W (26.4dBW) >100
R=47kΩ, C=100pF 2.5mV ref. 25W 75dB ref. 5mV	R=47kΩ, C=300pF 3.2mV ref. 40W 76dB ref. 5mV	47kΩ, + 100pF 0.35mV / 40W out 75dB ref. 5mV	47kΩ, + 100pF 0.35mV/40W out 75dB ref. 5mV	47kΩ, + 120pF 0.28mV/100W out 75dB ref. 5mV
<0.04% ±0.5dB	<0.04% ±0.5dB	<0.04% ±0.5dB	<0.04% ±0.5dB	<0.04% ±0.5dB
R=40kΩ, C=100pF 160mV ref. 25W 85dB ref. 1W 99dB ref. 25W +0.5, -1.0dB -3dB at 15Hz, 24dB/octave (fixed)	R=15kΩ, C=100pF 160mV ref. 40W 88dB ref. 1W 104dB ref. 40W +0.5dB -3dB at 12Hz, 12dB/octave (switchable)	50kΩ + 500pF 80mV 88/104dB ref. 1W/40W ±0.5dB -3dB at 12Hz/12 dB/octave	50kΩ + 500pF 20mV/150mV 94/111dB ref. 1W/50W ±0.5dB -3dB at 12Hz/12dB/octave (switchable)	50kΩ - 250pF 15mV/150mV 96/116dB ref. 1W/100W ±0.3dB -3dB at 12Hz/12dB/octave (switchable)
600Ω Source Z + 1000Ω 220Ω 12V 10V > 10V into 600Ω > 500mV into 8Ω	600Ω Source Z + 2000Ω 220Ω 12V 8V > 10V into 600Ω > 500mV into 8Ω	500Ω 100Ω(buffered) >10V >8V into 600Ω >500mV into 8Ω	500Ω 100Ω(buffered) >10V >8V into 600Ω >500mV into 8Ω	600Ω 1000Ω(buffered) >10V >8V into 600Ω >500mV into 8Ω
11.3dBf (2.0µV/300Ω) 15dBf (3.0µV/300Ω) 37dBf (40µV/300Ω) +7dBf (120µV/300Ω)	10.3dBf (1.8µV/300Ω) 14.2dBf (2.8µV/300Ω) 36dBf (3.4µV/300Ω) FM NR off 29dBf (16µV/300Ω) FM NR on 46dBf (110µV/300Ω) FM NR off 40dBf (56µV/300Ω) FM NR on	11dBf (1.0µV/75Ω) 36dBf (17µV/75Ω)	11.3dBf (1.0µV/75Ω) 26dBf (5.5µV/75Ω) FM NR on 36dBf (18µV/75Ω) FM NR off	10.3dBf (1.0 µV/75Ω) 25.4Bf (5µV/75Ω) FM NR on 35dBf (15µV/75Ω) FM NR off
< 1.5dB 58dB 60dB 0.1% 0.1% >80dB > 74dB ± 0.5dB 45dB	< 1.5dB 65dB 60dB 0.09% 0.09% > 80dB > 75dB ± 0.5dB 50dB	<1.6dBf 68dB 60dB <0.1% <0.1% 82dB 76dB ± 0.5dB 50dB	<1.6dBf 70dB 65dB 0.1% 0.09% 82dB 78dB ± 0.5dB 50dB	< 1.5dBf 75dB <60dB <0.08% <0.1% 82dB 78dB ± 0.5dB 50dB
5µV 30dB 45dB 45dB 0.5%	300µV/meter 35dB 50dB 45dB 0.5%	5µV 35dB 50dB 45dB 0.5%	300µV/meter 35dB 50dB 45dB 0.5%	300µV/meter 35dB 50dB 45dB 0.5%
42 x 9.1 x 27.3cm (16.5 x 3.2 x 10.75in.) 5.5kg (12lb 2oz) 6.8kg (15lbs) 150W	42 x 10.8 x 38cm (16.5 x 4.25 x 15.1in.) 7.5kg (16lb 9oz) 9kg (19lb 13oz) 240W	43.5 x 10.6 x 38.9cm (17.1 x 4.2 x 15.3in.) 8.2kg (18lb 1oz) 10kg (22lb) 250W	43.5 x 10.6 x 38.9 cm (17.1 x 4.2 x 15.3in.) 11kg (24lb 7oz) 12.7kg (28lb 3oz) 330W	43.5 x 12 x 38.9cm (17.1 x 4.75 x 15.3in.) 11.8kg (26lb) 13.6kg (30lb) 390W

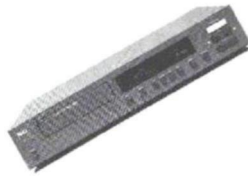
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Compact Disc Players



5420/25 Compact Disc Player

- BALANCED MASH 'ONE-BIT' HIGH RESOLUTION DIGITAL TO ANALOGUE CONVERTER
- PLAYS 3-INCH DISCS WITHOUT ADAPTOR
- 16 TRACKS PROGRAMMABLE
- REMOTE CONTROL WITH 5425



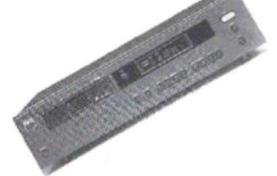
5440 Compact Disc Player

- BALANCED MASH 'ONE-BIT' HIGH RESOLUTION DIGITAL TO ANALOGUE CONVERTER
- CDR (CONTROLLED DYNAMIC RANGE) CIRCUIT OPTIMIZES DYNAMIC RANGE IN DIGITAL DOMAIN FOR LATE NIGHT LISTENING OR CASSETTE RECORDING
- BOTH LOW IMPEDANCE FIXED AND VARIABLE OUTPUTS
- INFRA-RED REMOTE CONTROL WITH DIRECT TRACK ACCESS AND VOLUME CONTROL
- SERIAL DIGITAL OUTPUT



5000 Monitor Series Compact Disc Player

- BALANCED MASH 'ONE-BIT' HIGH RESOLUTION DIGITAL TO ANALOGUE CONVERTER
- CDR (CONTROLLED DYNAMIC RANGE) CIRCUIT OPTIMIZES DYNAMIC RANGE IN DIGITAL DOMAIN FOR LATE NIGHT LISTENING OR CASSETTE RECORDING
- BOTH LOW IMPEDANCE FIXED AND VARIABLE OUTPUTS
- FULL FUNCTION REMOTE CONTROL
- SERIAL DIGITAL OUTPUT
- POWERFUL HEADPHONES AMP, WITH VOLUME CONTROL, DELIVERS 6VRMS



5060 Monitor Series Compact Disc Player

- MULTIPLE CD CHANGER
- 6-DISC MAGAZINE
- RANDOM PLAYBACK
- AUTO PAUSE
- REMOTE CONTROL
- MULTI-STAGE PWM DIGITAL TO ANALOGUE CONVERTER

SPECIFICATIONS

Disc capacity	Single disc, 120 or 80mm	Single disc, 120 or 80mm	Single disc, 120 or 80mm	6 discs, 120mm (80mm with adaptor)
Programming capacity	16 tracks	20 tracks	20 tracks	32 tracks
Digital-to-Analogue conversion	MASH, 18-bit resolution 32 times oversampled, linear phase with 18 bit coefficients	MASH, 18-bit resolution 32 times oversampled, linear phase with 18 bit coefficients	MASH, 18-bit resolution 32 times oversampled, linear phase with 18 bit coefficients	16 bit linear dual DAC 104 point linear phase, 2 stage
Analogue filter	5 pole active	5 pole active	5 pole active	3 pole active
Frequency response 5Hz - 20kHz	0/-0.5dB	+/-0.2dB	+/-0.2dB	+0.2dB - 0/-0.5dB
De-emphasis error	<-0.3dB	<-0.2dB	<-0.2dB	<-0.5dB
THD (at 0dB, 1kHz)	0.0025%	0.002%	0.002%	0.035%
Dynamic range	98dB	98dB	98dB	94dB
Linearity	+0.5dB; 0 to -90dB	+0.5dB; 0 to -90dB	+0.5dB; 0 to -90dB	+1dB at -90dB
Signal/Noise ratio (A-weighted, measured with all zeroes test disc)	106dB	>106dB	>106dB	106dB
Channel separation	100dB	>100dB	>100dB	95dB
Wow and flutter	Unmeasurable (quartz accuracy)	Unmeasurable (quartz accuracy)	Unmeasurable (quartz accuracy)	Unmeasurable (quartz accuracy)
Output impedance	120Ω	120Ω	120Ω	470Ω
Output level at 0dB	2.0V rms	2.0V rms (fixed), 5V rms (variable)	2.0V rms (fixed), 5V rms (variable)	2.0V rms
Digital error correction	CIRC with double error correction in C1 and C2	CIRC with double error correction in C1 and C2	CIRC with double error correction in C1 and C2	CIRC with double error correction in C1 and C2
Noise at zero volume	<-120dB	<-120dB	<-120dB	<-120dB
Digit code output	NO	Sony/Philips aerial data format	Sony/Philips aerial data format	NO
Remote control unit	5425-YES	YES	YES	YES
PHYSICAL SPECIFICATIONS				
Dimensions (Width x Height x Depth)	42.0 x 8.4 x 26.0cm (16.5 x 3.3 x 10.2in.)	42.0 x 8.4 x 30.0cm (16.5 x 3.3 x 11.8in.)	43.5 x 8.1 x 30.0cm (17.1 x 3.3 x 11.8in.)	43.5 x 11.5 x 37.7cm (17.1 x 4.5 x 14.3in.)
Net weight	5420 - 4.10kg (9lb 1oz) 5425 - 4.15kg (9lb 2oz)	4.10kg (9lb 1oz)	4.25kg (9lb 4oz)	7.1kg (15lb 9oz)
Shipping weight	5420 - 4.65kg (10lb 4oz) 5425 - 4.70kg (10lb 6oz)	5.0kg (11lb)	5.15kg (11lb 4oz)	8.4kg (18lb 5oz)
Power Consumption at 120 VAC 60Hz	25W	16W	17W	20W

Cassette Decks



6325 Cassette Deck

- DOLBY™ B & C
- CAR CIRCUIT OPTIMIZES RECORDING FOR MOBILE ENVIRONMENT
- PLAY TRIM
- FULL LOGIC TRANSPORT



6340 Cassette Deck

- DOLBY™ B & C
- DOLBY HX PRO™
- DYNEQ™
- CAR CIRCUIT OPTIMIZES RECORDING FOR MOBILE ENVIRONMENT
- PLAY TRIM
- FULL LOGIC TRANSPORT



6100 Monitor Series Cassette Deck

- DOLBY™ B & C
- DOLBY HX PRO™
- DYNEQ™
- CAR CIRCUIT OPTIMIZES RECORDING FOR MOBILE ENVIRONMENT
- PLAY TRIM
- FULL LOGIC TRANSPORT
- REMOTE CONTROL

SPECIFICATIONS

Speed Accuracy	+1%	+1%	+1%	+1%
Wow and Flutter	< 0.06% JIS wtd. RMS	< 0.06% JIS wtd. RMS	< 0.06% JIS wtd. RMS	< 0.06% JIS wtd. RMS
Frequency Response (Dolby NR off)	< 0.1% DIN wtd. peak	< 0.1% DIN wtd. peak	< 0.1% DIN wtd. peak	< 0.1% DIN wtd. peak
MPX Filter Response	35Hz - 16kHz +3dB	30Hz - 19kHz +3dB (MPX filter off)	30Hz - 19kHz +3dB (MPX filter off)	30Hz - 19kHz +3dB (MPX filter off)
Harmonic Distortion	Varies with recording level; typically	Varies with recording level; typically	Varies with recording level; typically	Varies with recording level; typically
THD at 0dB	< 0.3% at -10dB	< 0.3% at -10dB	< 0.3% at -10dB	< 0.3% at -10dB
	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	< 1.5%	< 1.5%	< 1.5%	< 1.5%
Signal-to-Noise Ratio (ref. 3% THD at 333Hz CC1R/ARM weighting)	56dB (Dolby off)	57dB (Dolby off)	57dB (Dolby off)	57dB (Dolby off)
Channel Separation	66dB (Dolby B)	67dB (Dolby B)	67dB (Dolby B)	67dB (Dolby B)
	76dB (Dolby C)	77dB (Dolby C)	77dB (Dolby C)	77dB (Dolby C)
	40dB at 1kHz	45dB at 1kHz	45dB at 1kHz	45dB at 1kHz
Erasure	35dB broadband	38dB broadband	38dB broadband	38dB broadband
Input Sensitivity / Impedance	> 70dB at 1kHz	> 70dB at 1kHz	> 70dB at 1kHz	> 70dB at 1kHz
Maximum input level	40mV/10k	40mV/10k	40mV/10k	40mV/10k
Output level at 0dB	25V	25V	25V	25V
Output impedance	500mV	500mV	500mV	500mV
	1000Ω	1000Ω	1000Ω	1000Ω
PHYSICAL SPECIFICATIONS				
Dimensions (Width x Height x Depth)	42 x 12.2 x 27cm (16.5 x 4.8 x 10.6in.)	42 x 12.2 x 27cm (16.5 x 4.8 x 10.6in.)	43.5 x 12 x 27.3cm (17.1 x 4.75 x 10.75in.)	43.5 x 12 x 27.3cm (17.1 x 4.75 x 10.75in.)
Net Weight	4.42kg (9lb 12 oz)	4.5kg (9lb 15 oz)	4.6kg (10lb 1oz)	4.6kg (10lb 1oz)
Shipping Weight	6.26kg (13lb 13oz)	6.2kg (13lb 11oz)	6.4kg (14lb 1oz)	6.4kg (14lb 1oz)
Power Consumption at 120 VAC 60Hz	22W	22W	22W	22W

GLOSSARY

POWER AMPLIFIER TECHNOLOGY

POWER ENVELOPE: Provides NAD amplifiers and receivers power bursts up to four times their "rated" continuous power. Imagine, for slightly more than you would pay for an ordinary 50W/Ch receiver, you can have a receiver which can reproduce music as clearly as a conventional receiver rated at 200W/Ch. This not only saves you money, but also saves your speakers from damage due to pushing a receiver too hard.

BUILDING BLOCK CONCEPT: Most NAD products have preamp-out/main-in and/or bridging capabilities. This allows for easy upgrade possibilities in the future, even with the simplest receiver. Your investment never becomes obsolete.

SOFT CLIPPING: This NAD circuit gently rounds off the musical wave form when an amplifier or receiver is driven too hard, reducing the possibility of damage to your speakers.

HIGH CURRENT CAPABILITY: Provides the control needed for dynamic well defined reproduction of music with difficult speaker loads such as multiple speakers, electrostatics or other unusual designs.

PREAMPLIFIER TECHNOLOGY

BASS EQ: Boosts only the lowest bass by 6-8 dB, compensating for the natural roll-off found in most bookshelf speakers, thereby giving an extra 1/2 to 2/3 of an octave of deep bass. *Example: It's like trading in an 8" woofer for a 10" woofer, without getting boomy.*

MUSICALLY USEFUL TONE CONTROLS: Provides the ability to control the extremes (high and low) without effecting the midrange. Allows you to boost the lowest bass without altering a male voice, or add sparkle to the highs without distorting a female voice.

LOW PHONO SIGNAL-TO-NOISE: NAD's preamps are designed for actual use, rather than good specs alone (as are all of our products). If you listen to a lot of records, you will find greater enjoyment out of them when played through our quieter preamps.

TUNER TECHNOLOGY

FM NOISE REDUCTION: Dramatically improves the listenability of weak FM stereo signals. FM NR provides a 10 dB improvement in signal-to-noise ratio (approximately the same result as Dolby B NR for tapes), thus requiring about half the signal strength for the tuner to achieve acceptably quiet reception.

SELECTABLE I.F. BANDWIDTH: NAD tuners offer wide bandwidth for getting low distortion and wide stereo separation from FM broadcasts and effective rejection of multipath interference. However, in crowded areas, weak signals may be hidden by stronger ones. I.F. Narrow helps to provide sharper selectivity for these crowded dial conditions.

WIDEBAND AM: The AM Circuits were designed especially for digital tuners. Their freedom from noise and static make it surprisingly pleasant to listen to, and, unlike most stereo tuners, their unusually wide bandwidths provide very clear sound.

CASSETTE DECK TECHNOLOGY

PLAY TRIM: Developed by Dolby laboratories with NAD, Play Trim compensates for high frequency loss before Dolby NR, restoring highs without increasing noise. *Example: Take an old tape with dulled highs and turn the Play Trim knob and note the restored highs.*

HX PRO AND DYNEQ: DYNEQ varies the record equalization to prevent over saturation when strong high frequency transients occur. HX PRO varies the bias supplied to the tape during recording to maintain optimum high frequency response at all times, thus making a much more accurate reproduction of your source. *Note: HX PRO and DYNEQ are compatible for playback with all cassette decks, including car decks.*

CAR CIRCUIT: Boosts quiet passages in the music without altering the loud passages, making a more practical tape for car or portable players. It also adds equalization for the car environment.

COMPACT DISC TECHNOLOGY

CDR - CONTROLLED DYNAMIC RANGE: Raises the volume level of the quietest portions of music, without limiting the dynamic peaks. This allows all the music to be heard all the time. Perfect for use as background music, or for making tapes for the car if you don't own an NAD cassette deck.

MASH "ONE BIT" DECODING: With CD players utilizing MASH or other one bit technologies, our engineers have found that what really makes the difference in their performance is the care taken in power supply design, PCB layout, grounding, and selection of analog circuit components.

CIRCUIT SIMPLICITY: Many CD players are "over-designed" with unnecessary stages of analog circuitry that sacrifice transparency and subtle detail. NAD players have just three wide-band analog circuits and only one coupling capacitor in the signal path (bypassed by a low-loss film capacitor), thus preserving the emotional detail of the original performance.



AN UNCOMMON COMPANY

Achieving imposing specification is not a primary goal of NAD. Our engineers step outside of the laboratory to study actual listening environments and the effects of interaction between components in a complete audio system. No compromises whatsoever are made in the design areas which directly affect performance in real-use conditions. Every NAD component is designed for maximum efficiency and effectiveness. Furthermore, NAD offers the best possible performance sound quality regardless of power rating or price.

NAD's organization is as unconventional as its product philosophy. NAD dealers and distributors from over 45 countries participate in planning sessions at local and international conferences. Working closely with our engineers and consultants, they develop the new products and concepts that make NAD components so unique. By eliminating many expenses generally associated with large audio manufacturing companies, NAD has been successful in greatly increasing the value of its products. Unlike most companies that spend over 40% of their product budget on overhead and advertising, NAD spends less than 10% on these elements. Most of the NAD budget is devoted to research, engineering and manufacturing.

From all over the world, NAD has invited the leading experts in each aspect of audio technology to participate in creating an NAD product. We believe it is this combination of an uncommon company with an uncommon philosophy which results in a series of technically impressive products that have become "classics" in their own time.

To see and hear the products shown in this catalog, and for more detailed specifications and literature describing these and other fine products in NAD's unique line of home entertainment components, we suggest that you visit your local NAD dealer.



Notice to all customers:
Certain NAD models may not be available in all countries.
Multi-voltage option not available on many models.
Please consult your dealer for details.

All specifications are those in effect at the time of printing.
NAD reserves the right to change specifications or designs at any time without notice.

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