

NSC 222

Product sheet

NSC 222 is a feature-packed streaming preamplifier that keeps things simple without compromising on musical quality. Precision engineered and designed in the UK, this new design features a world of music and radio streaming, alongside vinyl and headphone support - plus a full-spec analogue preamplifier. Partner with NAP 250 power amplifier for the ultimate 'just add speakers' pairing.



Key points

- **Statement volume control architecture** using Reed Relays. Premium sound quality of fixed resistor volume control, providing precise channel balance. This miniaturised version of the Statement volume control uses super smooth fly-by-wire optical encoder with precision ball raced bearing.
- **Reed relay input switching.**
- **Single ended discrete transistor class A** input buffers and filter circuits; using hand soldered polystyrene capacitors.
- **Built in high quality MM phono stage.**
- **5.5 inch colour display.**
- **Configurable inputs:** Input sensitivity pre-set, naming, AV bypass mode and unused input disabling.
- **Uses Naim's latest NP800 streaming card with LVDS balanced digital signals** for low noise. Stream internet radio stations, music from Spotify Connect, Apple Music, Tidal (and Tidal Connect), Qobuz, AirPlay 2, Chromecast, UPnP™ servers, USB attached storage and Roon Ready.
- **aptX Adaptive Bluetooth®**
- **App control continuity** from Mu-so through to Classic range.
- **Multiroom capability** with other Naim streaming products (right up to Classic range and 500 Series).
- **ZigBee RF bi-directional remote control**, line of sight not needed, volume changes reflected on the remote.
- **Dual optical 3.5mm inter-product** communications for synchronised standby and lighting, compatible with NAP 250 power amplifier.
- **Twin fixed frequency** (44.1kHz and 48kHz based sample rates) master clocks for ultra low jitter.
- **DSP RAM buffer for SP/DIF inputs**, eliminates jitter caused by SP/DIF modulation (4x SP/DIF inputs).
- **Naim's proprietary DSP 705.6kHz/768kHz** integer oversampling filter.
- **PCM1791A DAC** Custom polystyrene ultralow dielectric absorption Post DAC filter components.
- **PSU upgrade with NPX 300** via two Burndy cables (one digital and one analogue).
- **0.5W standby power**
Using two internal power supplies; one is a high quality audiophile linear type, based on a large toroidal transformer. The other is a highly efficient SMPSU for 0.5W power consumption in standby during standby mode.
- **Galvanic isolation** of control and audio circuits.

Specifications

Type	Preamplifier
Analogue inputs	1 x moving magnet phono 1 x 8-pin DIN (47k Ω , 2.2V typical, 7.5Vrms max) 1 x RCA (47k Ω , 2.2V typical, 7.5Vrms max) pair 8-pin DIN compatible with 5-pin DIN 8 pin DIN has +/-18V (for compatible external phono stages e.g NVC TT) MM phono: 47k Ω /470pF, 5mV, 23dB overload (75mV max)
Analogue outputs	1 x XLR pair (balanced 7Vrms max) 1 x RCA pair (7Vrms max) 1 x 6.35mm headphone jack (1.5W into 16 Ω)
USB	2 x USB Type A socket (front and rear - 1.6A charge)
Digital inputs (S/PDIF)	2 x Optical TOSLINK (up to 24bit/96kHz) 1 x coaxial RCA (up to 24bit/192kHz, DoP 64Fs) 1 x coaxial BNC (up to 24bit 192kHz, DoP 64Fs)
Audio formats	WAV - up to 32bit/384kHz FLAC and AIFF - up to 24bit/384Hz ALAC (Apple Lossless) - up to 24bit/384Hz MP3 - up to 48kHz, 320kbit (16bit) AAC - up to 48kHz, 320kbit (16bit) OGG and WMA - up to 48kHz (16bit) DSD - 64 and 128Fs M4A - up to 48kHz, 320kbit (16bit) Gapless playback supported on all formats
Analogue gain	Preamplifier at max volume: 15.5dB Phono stage MM: 40dB
Digital level	2.1V at 0dBFS volume at 0dB
Frequency response	MM: -3dB at 10Hz, RIAA +/-0.1dB Line: 3Hz to 40kHz -3dB Digital: 3Hz to 27kHz -3dB
Signal to noise ratio	MM: 80dB ref 5mV A-wtd volume at 0dB Line: 104dB ref 2.2V A-wtd volume at 0dB Digital: 102dB ref 0dBFS A-wtd volume at 0dB
Distortion	MM: < noise floor Line: 0.0025% @2.2V input volume at 0dB, 1kHz (Line: 0.015% @2.2V input volume at 0dB, 20kHz) Digital: 0.0035% @0dBFS volume at 0dB, 1kHz
Cross talk	MM: 90dB at 1kHz, volume at 0dB Line: 90dB at 1kHz, volume at 0dB (Line: 70dB at 20kHz, volume at 0dB) Digital: 90dB at 1kHz, volume at 0dB
Control	App control (iOS and Android), bi-directional ZigBee remote and front panel. Control of NSC 222 via Zigbee Optical 3.5mm output for synchronised control of compatible products e.g. NAP 250/350
Network	Ethernet (10/100Mbps), Wi-Fi (802.11 b/g/n/ac)
Typical use consumption	25W
Network standby mode consumption	<2W
Standby mode consumption	<0.5W
Mains Supply	115V or 230V, 50/60Hz
Dimensions (HxWxD)	35/8x17x121/2" (9.15x43.2x31.75cm)
Weight	24.25lbs (11kg)

