RØDE®
MICROPHONES

# NT1000
# Instruction Manual


www.rodemic.com

CE (EMC, LVD)

# Introduction

I want to thank you for your purchase of the **RØDE** NT1000 large diaphragm microphone.

With its ultra low 6 dBA self-noise and transformer less SMT circuitry, the RØDE NT1000 exhibits exceptional performance when recording both vocals and instruments in the studio.

Voiced for 'application versatility', the NT1000 has been hailed by many as the ultimate drum over-head and grand piano mic selection.

The NT1000 is also equally at home as a first call vocal mic. With its Australian made 1" HF-2 capsule incorporating internal shock mounting, the NT1000 boasts a 134 dB dynamic range and 140 dBA SPL capabilities as well as a 20 Hz - 20 kHz frequency response.

Please take the time to visit **www.rodemic.com** and register your microphone for a full ten year warranty.

While there you can view studio tips and techniques, as well as browse the comprehensive range of accessories for the NT1000 and other **RØDE** microphones.

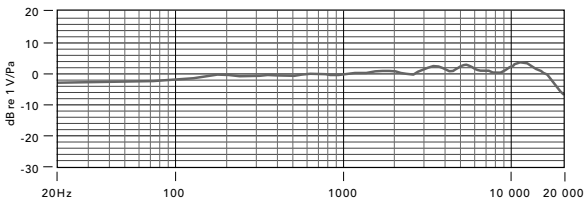
Peter Freedman
**RØDE** Microphones
Sydney, Australia

# Specifications

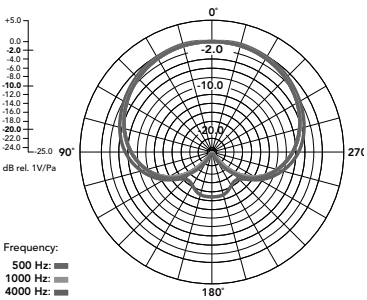
| | |
|---|---|
| **Acoustic Principle:** | Pressure gradient |
| **Active Electronics:** | Unity-gain closed-loop impedance converter; JFET input with bipolar buffering |
| **Directional Pattern:** | Cardioid (see graph) |
| **Frequency Range:** | 20Hz ~ 20,000Hz (see graph) |
| **Output Impedence:** | 100Ω |
| **Sensitivity:** | -36dB re 1V/Pa @ 1kHz (16mV @ 94dB SPL) ±1dB @ 1kHz |
| **Equivalent Noise:** | 6dBA SPL (per IEC651) |
| **Maximum Output:** | +13dBu (@ 1kHz, 1% THD into 1kΩ) |
| **Dynamic Range:** | >134dB (per IEC651) |
| **Maximum SPL:** | >140dB (@ 1kHz, 1% THD into 1kΩ) |
| **Signal/Noise:** | >88dB SPL (@ 1kHz, rel 1Pa per IEC651) |
| **Power Requirement:** | 6mA @ Phantom P48<br>2mA @ Phantom P24 |
| **Output Connection:** | 3-pin XLR, , balanced output between pin 2 (+), 3 (-) and pin 1 (ground) |
| **Net Weight:** | 682g |

# Specifications

### Frequency Response




### Polar Response




# Accessories

RM2 Stand Mount

ZP1 Zip pouch

SM2 Shock Mount
(optional)

WS2 Windshield
(optional)

# Features

- HF2 1" capsule with gold-plated diaphragm
- Ultra low noise transformerless circuitry
- Cardioid polar pattern
- Durable satin nickel finish
- High strength welded and heat-treated mesh head
- Internal capsule shock mounting
- True externally biased condenser
- Full frequency response
- Designed & manufactured in Australia
- Full 10 year guarantee*

# Using the NT1000

- The NT1000 requires a power supply which for optimum results should be a 'P48' standard, 48 Volt DC Supply.

  Most professional mixing consoles have an internal 48 V supply; alternatively you can purchase a separate supply. Ensure that the power supply you use is a professional unit that is operating correctly. Damage due to connection of the NT1000 to a faulty power supply is not covered by the warranty.

- The NT1000 comes complete with a microphone stand-mount (RM2). This should be used to attach the microphone to a good quality stand.

*Online product registration required.

# Using the NT1000

The stand-mount includes a thread adaptor allowing connection to either 3/8" or 5/8" stand thread.

- Always use a high quality microphone cable and ensure that it is wired Pin 1 screen, Pin 2 (+), Pin 3 (-).
- We recommend that any connections made to the mixer or recorder are made with the attenuation (gain) set to OFF.
- When first switching the mixer on and phantom power has been applied to the NT1000 you should allow several seconds for the microphone to stabilize.
- To ensure the lowest noise/distortion your mixer input gain control should be set so that the Peak Program Indicator (PPI) LED flashes ON during peaks of the source (voice/instrument).
  If there is no PPI, adjust the input gain while listening for distortion of the sound. If distortion is heard, gradually reduce the gain until it is no longer present.
- Microphone technique, or how to get the sound you want, requires experimentation.

  We suggest that you start with the channel EQ set to 'OFF' or 'FLAT' (no boost or cut). Try to get the sound you want by placing either reflective or absorbent panels at various angles adjacent to the source being recorded.

# Using the NT1000

- Changing the acoustic properties of the space around the microphone is our recommended initial approach for obtaining best sound quality. Remember you cannot change a room's acoustic properties with EQ.

  When the preferred sound has been achieved (as above) then EQ and effects such as reverb or indeed any signal processing can be used for enhancement, but should be used sparingly.

# Storage

- After use, the NT1000 should be removed from its stand or shock mount, wiped with a dry, soft cloth and placed in its protective zip pouch or case with the supplied moisture-absorbent crystals.
- Be sure to place the moisture-absorbent crystals (supplied) at the head of the microphone, so as to absorb any moisture present.

  Eventually this pack of crystals will need to be dried. This is indicated by the crystals turning pink in colour.

  They can easily be re-used by placing them in an oven at 100 - 150 degrees celsius for approximately ten minutes. The crystals will operate effectively again once they have turned blue.

# Warranty

All **RØDE** microphones are warranted for one year from date of purchase. You can extend that to a full ten years if you register online at **www.rodemic.com**.

The warranty covers parts and labour that may be required to repair the microphone during the warranty period. The warranty excludes defects caused by normal wear and tear, modification, shipping damage, or failure to use the microphone as per the instruction guide.

If you experience any problem, or have any questions regarding your **RØDE** microphone, first contact the dealer who sold it to you. If the microphone requires a factory authorised service, return will be organised by that dealer.

We have an extensive distributor/dealer network, but if you have difficulty getting the advice or assistance you require, do not hesitate to contact us directly.

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