

RØDE[®]
MICROPHONES



NTK
Instruction Guide



RØDE STUDIO CONDENSER MICROPHONES



CE (EMC, LVD)

The NTK

Valve Condenser Microphone

Serial Number:

Checked by:

Date:.....

Thank you for investing in your **RØDE NTK**.

You have chosen a very special audio product which is the culmination of an extensive development program.

Our brief was to produce a truly superior valve condenser microphone. That has been achieved.

The finest components, and an uncompromising build philosophy ensure that your creative efforts will gain their just rewards.

The **NTK** comes complete with the following accessories.



Power Supply (NTK-PS)



NTK Cable (NTR-C)

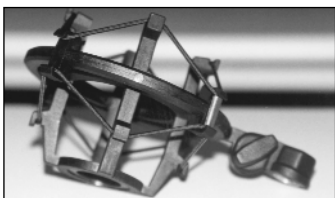


Power Cable (PL100)



Stand Adaptor (M2)

Available as an optional extra:



Shock Mount (SM2)

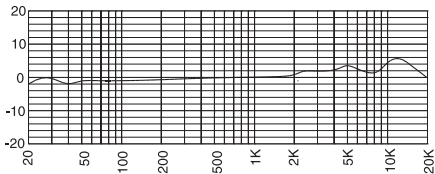
SPECIFICATIONS:

- Capsule: Externally polarised 1" pressure-gradient condenser
- Active Electronics: Unity-gain closed-loop impedance converter; vacuum-tube input with bi-polar buffering.
- Polar Pattern: Cardioid
- Frequency Response: 20 Hz ~ 20 kHz (+/-6dB)
- Output Impedance: 200 ohms (100 ohms per leg)
- Sensitivity: -38dB re 1V/Pa (12mV @ 94dB SPL) +/- 1dB
- Equivalent Noise: 12dB SPL (A-weighted, per IEC268-15) +/-2dB
- Maximum Output: >+29dBu @ 1kHz, 5% THD into 1Kohm load)
- Dynamic Range: >147dB (A-weighted, per IEC268-15)
- Maximum SPL: >158dB SPL @ 1kHz, 5% THD into 1Kohm load
- Signal/Noise Ratio: >82dB (A-weighted, per IEC268-15)
- External Power Supply: 100-120V / 200-240V (user-selectable) 50Hz/60Hz, 25VA maximum.
- Packed Weight: 4.53kg
- Microphone Only: 760gm

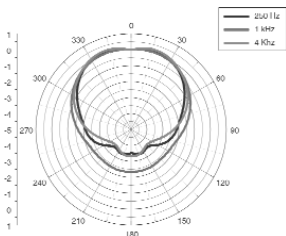
FEATURES:

- Large capsule with gold-plated membrane
- Ultra low noise
- Wide dynamic range
- Class A valve circuitry
- Hand-selected and graded twin-triode valve '6922'
- Dedicated Power Supply
- High strength heat-treated steel mesh head
- Durable satin nickel finish
- Internal capsule shock mounting
- High level of RF rejection

FREQUENCY RESPONSE



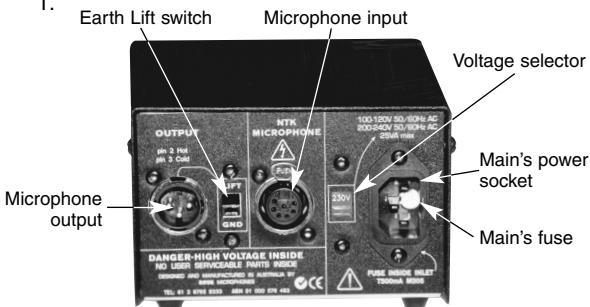
POLAR PATTERN



Before using the NTK:

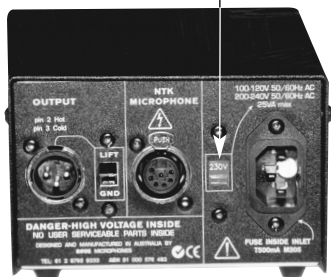
- Ensure that your NTK has been set to the correct voltage as used in your country.
- The back panel of the NTK power supply has a microphone output socket, a ground (earth) lift, a microphone input socket, a voltage selector, and a mains power socket which also incorporates a fuse. (see 1.)

1.



- The front panel of the power supply has the mains power on/off switch, and a blue LED (light-emitting diode) to indicate power status.
- The NTK can be used with mains supply voltages of between either 110-120V 50/60Hz, or 220-240V 50/60 Hz.
- To select for 100-110V use, set the Voltage Selector to 115V. (see 2.)

2.



- To select for 220-240V use, set the Voltage Selector to 230V. (see 2.)
- Note: on either voltage selection the mains fuse (inside the mains socket) is always to be a T500mA slow blow fuse.

Having ensured that the power supply is now set to the correct voltage, you can begin to connect the NTK to its supply.

NOTE: Do not have the power connected before the 7 pin multi-core microphone cable has been connected first!

- Take the NTK Cable (supplied) and connect the male 7 pin plug to the 7 pin input socket on the back panel of the power supply. (see 3.)

3.



- Connect the other end of the cable (female 7pin plug) to the microphone. Ensure that both these plugs are correctly aligned and pushed firmly into their respective sockets.
- Now connect a microphone cable to the output socket of the power supply taking that output into your mixer/pre-amplifier. We suggest you use a high quality microphone cable preferably with gold-plated contacts. Use as short a cable as is reasonable, as long cables can adversely affect sound quality. Ensure the cable is balanced and connected Pin 2+ Pin 3- and Pin 1 screen.
- Ensure that the NTK is fixed securely (using the M2 stand mount, or optional SM2 shock mount) to a stable microphone stand. The NTK condenser microphone is a precision instrument, and should not be dropped, banged or knocked. Take care.
- Connect the power supply to the mains supply, and you are ready to switch on and begin using the NTK.
- When you switch on the unit, the blue LED on the power supply will not glow immediately, it will gradually glow brighter then stabilize. It is powered by the filament voltage in the NTK's valve, which takes a few seconds to 'warm up', so the LED is in fact not only an on/off indicator, it also shows when the microphone is stable and ready for use. Although power is normally achieved in approximately 12 seconds, it is wise to allow a minute or two to really ensure that the NTK is ready for use.

- For vocal use, we recommend the use of a 'Pop-Stopper' wind screen, which will help to reduce high-level plosives which are evident when 'B' and 'P' sounds are emitted within close proximity to the microphone.
- If an Earth Loop is present, (a mains frequency hum), there is a Ground Lift switch on the back panel of the power supply which should be raised to the 'lift' position. (see 4.) This earth loop can appear when two devices which are both earthed are connected together.

4.





NEVER REMOVE THE MAINS EARTH
Doing so can have lethal consequences

ACHTUNG: LEBENSGEFAHR!
ENTFERNE NIEMALS DEN
SCHUTZLEITER

NON SCOLLEGATE IL FILO DI TERRA
Potrebbe essere molto pericoloso per il
rischio di scosse elettriche

RELIEZ IMPERATIVEMENT
L'ALIMENTATION A LA PRISE TERRE
sous risque mortel d'électrocution

NUNCA MANIPULE LA TOMA DE TIERRA,
ESTA ACCION PUEDE TENER GRAVES
CONSECUENCIAS



NOTE: There are NO user-serviceable parts inside the Classic II supply, but there ARE potentially lethal voltages.

If the supply does not work correctly, you should consult either the dealer you purchased the microphone from, or a qualified electronic technician.

DO NOT under any circumstance open the unit yourself.

ACHTUNG: Das Classic II Netzteil enthält keine Teile, die vom Benutzer repariert werden können.

Gefahr: Das Gerät enthält spannungsführende Bauteile! Für Reparaturen suchen Sie bitte Ihren Händler oder einen qualifizierten Fachbetrieb auf.

Auf keinen Fall dürfen Sie selbst das Gehäuse öffnen!

NOTA: All'interno dell'alimentatore del Classic II NON ci sono parti riparabili dall'utente ma ci sono invece tensioni pericolose! Se l'alimentatore non funziona correttamente dovete consultare il rivenditore presso il quale avete acquistato il microfono oppure un tecnico elettronico qualificato.

NON APRITE in ogni caso l'unità in quanto pericoloso!

AVERTISSEMENT: N'enlevez pas le capot de l'alimentation, sous risque d'électrocution. Si l'alimentation ne fonctionne pas correctement, consultez votre revendeur, ou un technicien qualifié.

Vous ne devez sous aucun prétexte ouvrir l'alimentation vous-même.

NOTA: NO MANIPULE INTERNAMENTE LA FUENTE DE ALIMENTACION DEL RODE CLASSIC II, PUESTO QUE EL ALTO VOLTAJE PUEDE SER PERJUDICIAL EN CASO DE SUFRIR UNA DESCARGA. SI SE APRECIARA UN FUNCIONAMIENTO INCORRECTO DE LA FUENTE DE ALIMENTACION, DEBERA CONSULTARLO EN EL ESTABLECIMIENTO DONDE ADQUIRIO LA UNIDAD, SOLO PUEDE SER MANIPULADO POR UN SERVICIO TECNICO CUALIFICADO, BAJO NINGUNA CIRCUNSTANCIA ABRA VD. LA UNIDAD.

Warranty Service:

All **RØDE** products are warrantied for one year from your date of purchase and the warranty card or on-line registration (www.rodemicrophones.com) should be used to register your microphone.

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, modification, shipping-damage, or failure to use the microphone as per the instruction guide.

If you experience any problems, or have any questions regarding your **RØDE** microphone, first, contact the Dealer who sold it to you. If you have any difficulty obtaining the advice or assistance you require, do not hesitate to contact us directly.

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