

IMPORTANT SAFETY WARNINGS AND FEATURES

This ClearTrak™ NRX Headset reduces exposure to noise and loud sounds that can damage hearing. Be sure to follow the instructions in this manual carefully. Failure to follow these recommendations may severely reduce the amount of hearing protection provided by the headset.

- The headset must always be worn in noisy environments to avoid hearing loss/injury.
- Misuse of or failure to wear hearing protection when exposed to hazardous noise may result in hearing loss and/or injury. If you experience symptoms of hearing injury (ringing in ears, dulled hearing, headaches), contact your supervisor or a medical professional immediately.
- The headset must be fitted, adjusted, and maintained in accordance with manufacturer's instructions to achieve the expected attenuation and hearing protection. Failure to do so may result in hearing loss and/or injury.
- The thermoplastic polyurethane foam ear seals on the ClearTrak™ NRX may deteriorate with use and should be examined at frequent intervals for damage, such as cracking and leakage. Replace as recommended in the Maintenance section.
- Using cloth hygiene covers over the foam ear seals may affect the acoustic performance of the headset.
- The ClearTrak™ NRX headset may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.
- This earmuff is provided with safety-related audio input. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturer's advice.
- Warning: the output of the safety-related audio circuit of this hearing protector may exceed the daily limit sound level.
- Headset should be regularly inspected for serviceability.
- Headset weight: 590gm (20.81oz.)
- Headband extrusion: silicone rubber or EPDM
- Size medium

Noise Reduction Rating (OTH)

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation (dB)	17.6	20.8	28.3	33.6	34.7	41.4	41.0	40.0	39.6
Standard Deviation (dB)	2.7	1.8	2.2	2.2	2.9	3.9	4.0	3.6	2.0

NRR= 25 dB; Headband Force= 3.4 lbs. PER ANSI S3.19-1974

TEST REPORT ID: Q6354A, Michael and Associates, Inc.

Noise Reduction Rating

25

(WHEN WORN AS DIRECTED)

THE RANGE OF NOISE REDUCTION RATINGS FOR EXISTING HEARING PROTECTORS IS APPROXIMATELY 0 TO 30
HIGHER NUMBERS DENOTE GREATER EFFECTIVENESS

OTTO ENGINEERING INC. V4-11258-S
Federal law prohibits removal of this label prior to purchase
MADE IN USA LABEL REQUIRED BY U.S. EPA REGULATION 40 CFR Part 211, Subpart B

EPA

Noise Reduction Rating (BTH)

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation (dB)	16.8	20.4	27.7	33.9	34.6	39.8	40.7	39.0	39.7
Standard Deviation (dB)	2.6	2.3	2.3	3.2	3.5	2.9	3.7	3.1	2.9

NRR= 24 dB; Headband Force= 3.8 lbs. PER ANSI S3.19-1974

TEST REPORT ID: Q6353A, Michael and Associates, Inc.

Important: NRR is not attenuation, and the labeled NRR for most earmuffs does not represent typical performance. The typical user can expect to obtain a higher level of attenuation across frequencies when the earmuffs are used as directed and the device is off.

SNR (Single Number Rating) (OTH)

Classification:
Clear Trak™ NRX EN 352-1:2020
Testing was conducted by Michael and Associates, Inc Report Q7139A

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR = 32 dB
Mean Attenuation (dB)	17.5	23.1	29.5	34.9	36.6	40.9	40.6	H = 36 dB
Standard Deviation (dB)	3.1	2.8	1.9	2.1	2.8	3.5	2.7	M = 30 dB
Assumed Protection Value (dB)	14.4	20.3	27.7	32.7	33.8	37.4	37.9	L = 22 dB

SNR_m = 33.8

H_m = 37.7

SNR_s = 1.8

H_s = 2.1

M_m = 31.5

L_m = 24.5

M_s = 1.6

L_s = 2.5

SNR (Single Number Rating) (BTH)

Classification:
Clear Trak™ NRX EN 352-1:2020
Testing was conducted by Michael and Associates, Inc Report Q7140A

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR = 31 dB
Mean Attenuation (dB)	16.8	21.4	28.7	36.5	37.7	41.4	40.4	H = 36 dB
Standard Deviation (dB)	2.7	3.4	2.6	2.3	3.0	3.5	2.5	M = 28 dB
Assumed Protection Value (dB)	14.1	18.0	26.1	34.1	34.7	37.9	38.0	L = 20 dB

SNR_m = 33.3

H_m = 38.6

SNR_s = 2.5

H_s = 2.1

M_m = 30.8

L_m = 23.3

M_s = 2.5

L_s = 2.9

EN 352-6:2020

The European Union testing was conducted by Michael and Associates, Inc. Report Q7224A and Q7225A.

The sound level from the headset speakers can exceed the permitted daily exposure levels. Therefore, the allowable usage time is dependent on the input signal.

See table below:

Input Signal		Level (dBA)		Mean + std. Dev.	Allowable Duration (hours)
dBV	mV	Mean	Std. Dev.		
-10	316.2	72.5	1.8	74.3	>8
-5	562.3	77.6	1.8	79.3	>8
0	1000	82.5	1.8	84.3	4.7
5	1778.3	87.5	1.8	89.2	1.5
10	3162.3	92.3	1.8	94.1	0.5

An electrical input level of 765.1 mV (mean - one standard deviation) corresponds to an equivalent sound output level of 82 dB(A) over 8 hours.

A warning that this product may not be used for entertainment since the output level is not limited to the necessary innocuousness level

PPE (EU) 2016/425 is met by compliance to EN 352-1:2020, EN 352-6:2020. PPE Regulation 2016/425 on personal protective equipment, as amended to apply in Great Britain.

Notified Body responsible for EU type examination: SATRA Technology Europe, Ltd., Bracetown Business Park, Clonee, Co.Meath, D15 YN2P, Ireland (Notified Body No. 2777)

Wearing the Headset And Boom Mic Placement

- Identify the left and right ear seals. The push-to-talk (PTT) button is located on the back of the left ear cup.
- For over-the-head version adjust ear cup height by pulling or pushing on the cups. For the behind-the-head version adjust the Velcro head strap for best fit/comfort.
- For effective sound protection, be sure that the ear seals are completely sealed around the ear and obstacles such as hair, jewelry, or clothing are out of the way.
- Position the boom microphone (mic) so that the microphone is about 1/4 inch from the mouth.
- Position the mic element so that the mic symbol on the boom faces directly toward the user's mouth.



(Figure 1)



(Figure 2)

Maintenance

Replacing the Ear Seals

The ear seals are mounted in a removable frame for easy replacement.

- Remove the ear seal by sliding fingers under the inside of the frame and pulling it straight out with a firm motion. See figure 3.
- The foam liner inside the ear seal will fall out. Replace it with a new one. See figure 4.
- Position a new ear seal over the ear cup. Align the TOP of the ear seal with the TOP label inside the ear cup. See figure 5.
- Press firmly to squeeze the ear seal into the cup until it snaps into place. See figure 6.



(Figure 3)



(Figure 4)



(Figure 5)



(Figure 6)

Cleaning the Headset

- Use a soft cloth to remove dirt and debris from the headset
- Use a damp soft cloth to cleanse the ear seals.
- Avoid full immersion of the ClearTrak™ NRX headset in liquid for cleaning.

Storage

When not in use, store the headset in temperatures between -40° and +50°C.

Installation

WARNING – Substitution of components may impair intrinsic safety /Avertissement: La substitution des composants peut nuire à la sécurité intrinsèque. To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing / Pour éviter l'inflammation d'atmosphères inflammables ou combustibles, débranchez l'alimentation avant l'entretien

- Turn the radio off.
In addition, installation of the headset while the radio is on may cause the radio to transmit constantly, locking up your radio system. If this should happen, turn off the radio. The radio can then be turned back on, restoring normal operations.
- Remove any dust caps or covers from radio accessory connectors.
- Attach headset to the radio accessory connector.
- Tighten mounting thumbscrew or accessory clamps, if required.

Notes: Cable length is restricted to that provided with this apparatus. Additional cable between radio and this audio apparatus shall not be provided in field.

Replacement Parts

Over the life of the headset, replacement of parts such as the foam microphone windscreen and foam earpad cushions may be necessary.

Replacement Parts	
Description	Part Number
Microphone Windscreen and "O" Ring (5)	C102374
Replacement Earseal Kit (2)	C102651

Replacement or optional parts may be ordered from:
OTTO Communications, 10 W. Main St., Carpentersville, IL 60110
888-234-6886, 847-428-7171 or Fax 847-551-1343.

The product is covered by Kenwood's one year warranty.
For warranty information or customer support, please contact Kenwood at the address listed on the last page.

Lifetime of the product is 6.5 years from the date of manufacture as indicated on the cable.



EU Contact Adress

JVCKENWOOD Europe B.V.

Rendementsweg 20 B-9, 3641 SL Mijdrecht, The Netherlands

UK Contact Adress

JVCKENWOOD U.K. Limited

First Floor, Gleneagles The Belfry, Colonial Way, Watford WD24 4WH, United Kingdom

Manufacturer

OTTO Engineering

10 West Main Street, Carpentersville, IL 60110

804514 Rev. C

Europe Only-does not apply to North, Central or South America.
Solo para Europa. No para el continente Americano.
Uniquement pour l'Union Européenne. Ne s'applique pas pour l'Amerique du Nord ou Sud.

English

Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste
Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Deutsch

Entsorgung von gebrauchten elektrischen und elektronischen Geräten (anzuwenden in den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem für solche Geräte)



Das Symbol (durchgestrichene Mülltonne) auf dem Produkt oder seiner Verpackung weist darauf hin, dass dieses Produkt nicht als normaler Haushaltsabfall behandelt werden darf, sondern an einer Annahmestelle für das Recycling von elektrischen und elektronischen Geräten abgegeben werden muss. Durch Ihren Beitrag zur korrekten Entsorgung dieses Produktes schützen Sie die Umwelt und die Gesundheit Ihrer Mitmenschen. Unsachgemäße oder falsche Entsorgung gefährden Umwelt und Gesundheit. Weitere Informationen über das Recycling dieses Produktes erhalten Sie von Ihrer Gemeinde oder den kommunalen Entsorgungsbetrieben.

Italiano

Informazioni sullo smaltimento delle vecchie apparecchiature elettriche ed elettroniche (valide per i paesi europei che hanno adottato sistemi di raccolta separata)



I prodotti recanti il simbolo di un contenitore di spazzatura su ruote barrato non possono essere smaltiti insieme ai normali rifiuti di casa. I vecchi prodotti elettrici ed elettronici devono essere riciclati presso una apposita struttura in grado di trattare questi prodotti e di smaltirne i loro componenti. Per conoscere dove e come recapitare tali prodotti nel luogo a voi più vicino, contattare l'apposito ufficio comunale. Un appropriato riciclo e smaltimento aiuta a conservare la natura e a prevenire effetti nocivi alla salute e all'ambiente.

Français

Informations sur l'élimination des anciens équipements électriques et électroniques (applicable dans les pays de l'Union Européenne qui ont adopté des systèmes de collecte sélective)



Les produits sur lesquels le pictogramme (poubelle barrée) est apposé ne peuvent pas être éliminés comme ordures ménagères. Les anciens équipements électriques et électroniques doivent être recyclés sur des sites capables de traiter ces produits et leurs déchets. Contactez vos autorités locales pour connaître les sites de recyclage le plus proche. Un recyclage adapté et l'élimination des déchets aideront à conserver les ressources et à nous préserver des effets nocifs sur notre santé et sur l'environnement.

Nederlands

Informatie over het weggoien van elektrische en elektronische apparatuur (particulieren)



Dit symbool geeft aan dat gebruikte elektrische en elektronische producten niet bij het normale huishoudelijke afval mogen. Lever deze producten in bij de aangegeven inzamelingspunten, waar ze gratis worden geaccepteerd en op de juiste manier worden verwerkt. Teruggewonnen en hergebruikt. Voor inleveradressen zie www.nvm.nl, www.ictmilieu.nl, www.stibat.nl. Wanneer u dit product op de juiste manier als afval inlevert, spaart u waardevolle hulpbronnen en voorkomt u potentiële negatieve gevolgen voor de volksgezondheid en het milieu, die anders kunnen ontstaan door een onjuiste verwerking van afval.

Español

Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países de la Unión Europea que hayan adoptado sistemas independientes de recogida de residuos)



Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desecharse como residuos domésticos. Los equipos eléctricos y electrónicos al final de la vida útil, deberán ser reciclados en instalaciones que puedan dar el tratamiento adecuado a estos productos y a sus subproductos residuales correspondientes. Póngase en contacto con su administración local para obtener información sobre el punto de recogida más cercano. Un tratamiento correcto del reciclaje y la eliminación de residuos ayuda a conservar los recursos y evita al mismo tiempo efectos perjudiciales para la salud y el medio ambiente.

Europe Only-does not apply to North, Central or South America.
Solo para Europa. No para el continente Americano.
Uniquement pour l'Union Européenne. Ne s'applique pas pour l'Amerique du Nord ou Sud.

Português

Informações sobre a forma de deitar fora equipamento elétrico ou eletrônico Velho (aplicável a países da UE que adotaram sistemas de recolha de lixo separados)



Produtos com o símbolo (caixote do lixo com um X) não podem ser deitados fora junto com o doméstico. Equipamentos elétricos ou eletrônicos velhos deverão ser reciclados num local capaz de o fazer bem assim como os seus subprodutos. Contacte as autoridades locais para se informar de um local de recicagem próximo de si. Reciclagem e tratamento de lixo correctos ajudam a poupar recursos, e previnem efeitos prejudiciais na nossa saúde e no ambiente.

Česky

Informace o likvidaci starého elektrického a elektronického vybavení (pro země EU, které převzaly systém třídění odpadu)



Produkty obsahující symbol (preskřtnutý odpadkový kontajner) nesmí být likvidovány jako domácí odpa. Staré elektrické a elektronické vybavení má být recyklováno v zařízení určeném pro manipulaci s těmito předměty a jejich zbytkovými produkty. Kontaktujte svůj místní správní orgán ohledně umístění nejbližšího takového zařízení. Správná recyklace a třídění odpadu napomohou zachování přírodních zdrojů, stejně jako ochraně našeho zdraví a životního prostředí před škodlivými vlivy.

Slovenija

Informacije o odlaganju stare električne in elektronske opreme (za države članice EU, ki uporabljajo sisteme ločevanja odpadkov)



Izdelkov s simbolom (prekrižan koš za odpadke) se ne smejo zavržiti skupaj z ostalimi gospodinjstskimi odpadki. Stara električna in elektronska oprema se mora zbirati in reciklirati na temu primenih mestih. Za informacije o zbirnih mestih se obrnite na organe lokalne oblasti. Ustrezno recikliranje in odstranjevanje izdelkov pripomore k ohranjanju zdravja in okolje.

Suomi

Tietoa vanhojen sähkö- ja elektronisten laitteiden hävittämisestä (sovellettu EU maille, jotka käyttävät jätteiden erittely-järjestelmää)



Tuotteet, joissa on symboli (crossed-out wheeled bin) ei saa hävittää kotitalousjätteiden kanssa. Vanhat sähköiset ja elektroniset laitteet tulee viettää asiaan kuuluiin keräyskeskukseen kierrätyä varten. Tietoa lähimmästä kierrätyskeskuksesta saat paikallisilta viranomaisilta. Oikea jätteiden kierrätys ja hävittäminen auttaa resurssien säilyttämisessä samalla kun se suojaa terveyttämme ja ympäristöämme haitallisilta vaikutuksilta.

Polski

Informacje o usuwaniu zużytego sprzętu elektrycznego i elektronicznego (dotycząc krajów Unii Europejskiej, które przyjęły system sortowania śmieci)



Produkty z symbolem przekreślonego smietnika na kolkach nie mogą być wyrzucane ze zwykłymi śmieciami. Zużyty sprzęt elektryczny i elektroniczny powinien być przetwarzany w firmie mającej możliwość sortowania tych urządzeń i ich odpadów. Skontaktuj się z lokalnymi władzami, w sprawie szczegółów zlokalizowania na bliższego miejsca przerobki. Właściwe przetworzenie i pozyczyć się śmieci umożliwi zachować surowce naturalne jednocześnie zapobiegając skutkom szkodliwym dla naszego zdrowia i środowiska.

Magyar

Használt elektromos és elektronikus készülékek elhelyezése hulladékként (a szelektív hulladék gyűjtést alkalmazó EU tagországok számára)



Az ezzel a szimbólummal (kereszttel áthúzott szemetes) megjelölt termékeket nem szabad háztartási hulladékként kezelni. Régi elektromos és elektronikus berendezéseit vigye az célra kielölt újjahasznosító telepre, ahol az ilyen termékeket és azok melléktermékeit is képesek szakszervek kezelni. A legközelebbi ilyen jellegű hulladékhasznosító telep helyéről az illetékes hivatalban kaphat felvilágosítást. E készülék szakszerű megsemmisítésével segíthet abban, hogy megelőzzük azt a környezetre és az emberi egészségre gyakorolt negatív hatást, ami a helytelen hulladékkezelésből adódik.

Svenska

Information gällande handhavande av gameeal elektrisk eller elektronisk utrustning (för länder inom EU som har tillämpat separata återvinningssystem för avfall)



Produkter med symbolen (en överkorsad papper-skorg) ska inte disponeras som hushållsavfall. Gammal elektrisk el'er elektronisk utrustning ska återvinnas på en plats som har befogenhet att ta hand om dessa produkter och dess avfall. Kontakta din lokala myndighet för information om närliggande återvinningssystem. Lämplig återvinning och handhavande av det elektroniska avfallet hjälper oss att skona våra naturlilgänger och förebygga skadliga effekter på vår hälsa och miljö.

Türk

Eski Elektrikli ve Elektronik Cihazların ve Pillerin İmhası Hakkında Bilgi (ayrı atık toplama sistemlerine sahip olan ülkelerde geçerlidir)



Bu sembolü (üzeri çizili çöp bidonu) içeren ürün ve piller vesel atık çöpleri ile birlikte atılmaz. Kullanılmış elektrikli ve elektronik cihaz ve piller, bu tür maddeleri ve bunların yan ürünlerini işleme elverişli bir geri kazanım tesisine gönderilmelidir. Size en yakın geri kazanım tesisinin konumunu öğrenmek üzere yetkililerimize danışın. Doğru geri kazanım ve atık uzaklaştırma yöntemleri, sadece öz kaynakların korunmasına yardımcı olmakla kalmayıp ayrıca sağlığınıza ve çevreye olacak zararlı etkilerini engellemeye yardımcı olur. Uyarı: Pilin alt tarafında bulunan "Pb" işareti, bu pili kurşun içerdiğini belirtir.

KENWOOD

NOISE-ATTENUATING HEADSETS

The Kenwood Noise Attenuating Headsets for Two-Way Radio communications feature:

- 24 dB Noise Reduction Rating (NRR) for Behind-the-head and 25 dB for Over-the-head Headsets
- Flexible boom with noise-canceling electret mic
- Push-to-talk switch (PTT) conveniently located on the earcup
- Available in two styles-
Over-the-head style for use in most applications, and
Behind-the-head style for use with protective headgear
- Microphone windscreen



Over-The-Head Style

Behind-The-Head Style