



PUT
MORE
BOOM
IN
YOUR
CHA.

DTP 640 REX

SOUNDS LIKE  **LEWITT**

Thank you that you have opted for a LEWITT product. In this operating manual you will learn more about your LEWITT microphone, its handling and its proper usage.

With its DTP series, LEWITT introduces a complete family of cutting-edge, high-performance wired dynamic microphones designed specifically for drums, percussion and bass instruments. These high-quality mics – spear-headed by our masterpiece, the dual-element cardioid DTP 640 REX optimized for kick drum applications – stand out thanks to their sonic accuracy on stage as well as in studio settings. Minimally affected by varying load impedance and designed to effectively reject off-axis sound, all models of the DTP series deliver unparalleled, memorable sound that will turn heads in any audience. Uniform cardioids and super-cardioid patterns allow for high gain before feedback and a hardened steel mesh grille effectively resists wear and abuse, making DTP microphones and Beat Kits the ultimate choice for touring professionals.

From professional drummers to discerning beat aficionados, LEWITT's DTP series lets music lovers and performers alike discover a fine-tuned, punchy sound.

LEWITT wishes you a lot of fun and success with this product!

DTP 640 REX

The product



Thanks to variably controlled dual element technology and fine tuned frequency responses, our flagship among drum microphones, the DTP 640 REX, offers unparalleled and powerful sound that will delight professional drummers and sound engineers alike. The DTP 640 REX is equipped with a high quality dynamic element and a condenser element – the dynamic element ensures accurate reproduction of the bass drum kick, while the condenser element optimally captures the rich low frequency sound of the drum’s shell. In order to guarantee full control over the two elements, they can be separately mixed on their own channels.

Since 2012, the DTP 640 REX offers two more features. The dynamic element emphasizes frequency ranges relevant for the kick drum in the ‘Dynamic Enhanced Frequency Response’ setting switchable right on the microphone, while the condenser element captures the sound neutrally. With ‘Dual Enhanced Frequency Response’, the character of the sound can be shaped even more individually – with this setting, the condenser element focuses on frequencies from 70 to 150 Hz and delivers a full body sound. The dynamic element provides the necessary power by focusing on the range between 3 and 5 kHz.

The combination of these features with the comprehensive tonal freedom of dual-element technology greatly increases the range of use, turning the DTP 640 REX into a universal tool for bass-heavy applications.

Features

- Innovative dual-element design (dynamic and back-electret condenser) accurately captures the sharp attack of the beater as well as the round tonalities of the shell for unrivaled realism
- 3-position switchable "Enhanced Frequency Response" provides various tailored frequency responses on separate channels for maximum creative freedom
- Frequency response specifically tuned for kick drum applications and bass instruments
- 3-position switchable pre-attenuation pad (0 dB, 10 dB, and 20 dB) for handling extremely high sound pressure levels
- Hardened hexagonal ruthenium-galvanized steel mesh grille to prevent wear and abuse
- Integrated stand adapter for quick and easy mounting and positioning
- Corrosion-resistant gold-plated 5-pin XLR output connector
- Comes in a cardboard box with foam layers; includes DTP 40 Trs cable and DTP 40 Lb leather bag

Top applications

- Drums and Percussion // kick drum...
- Low frequency instruments // double bass, electric bass, kick drum...
- Live and studio applications

Your mic

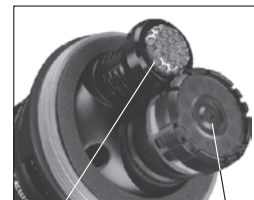
- ① DTP 40 Trs Y-cable: a 5-pin XLR into two 3-pin XLR
- ② 5-pin XLR jack
- ③ Electrostatic element
- ④ Dynamic element
- ⑤ Recessed slide switch for 'Enhanced Frequency Response'
- ⑥ Recessed slide switch for pre-attenuation level

Dual Element Technology

- Your DTP 640 REX is equipped with a high quality dynamic element ④ and a condenser element ③ – the dynamic element ensures accurate reproduction of the bass drum kick, while the condenser element optimally captures the rich, low frequency sound of the drum's shell. In order to guaranty full control over the increase in sound of the two elements, they can be separately mixed on their own channels. The enclosed DTP 40 Trs cable ① connects the DTP 640 REX to two channels on your mixing board. The two channels can be mixed according to the sound quality you want.



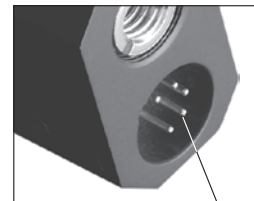
⑥ ⑤



③ ④



①



②

‘Enhanced Frequency Response’ – EFR

- The recessed EFR slide switch ⑤ allows you to select different frequency responses of the two elements.

= // = ‘Flat Frequency Response’ – FFR

- FFR is especially suited for recording bass-heavy instruments and for placing the DTP 640 REX outside the kick drum. With the FFR switch setting, both elements offer a relatively neutral reproduction of sound.

+ // = ‘Dynamic Enhanced Frequency Response’ – Dynamic EFR

- EFR Dynamic emphasizes dynamic element frequency ranges relevant for the kick drum sound. The condenser element makes the sound neutral again.

+ // + ‘Dual Enhanced Frequency Response’ – Dual EFR

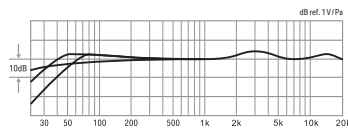
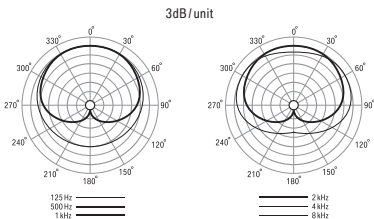
- EFR Dual is especially designed for recording kick drums. The condenser element focuses on frequencies from 70 to 150 Hz and delivers a full body sound. The dynamic element delivers an punchy attack by focusing on the range between 3 and 5 kHz.

Pre-attenuation level settings

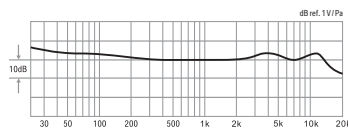
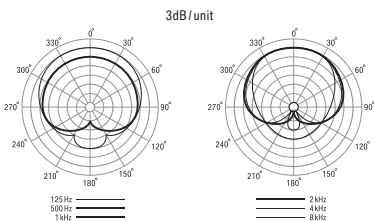
- You can select three settings for the pre-attenuation level by activating the recessed sliding switch ⑥.

Tech graph

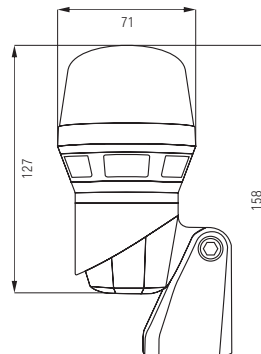
FFR (Condenser)



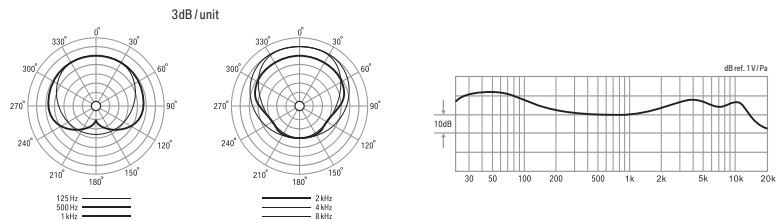
FFR (Dynamic)



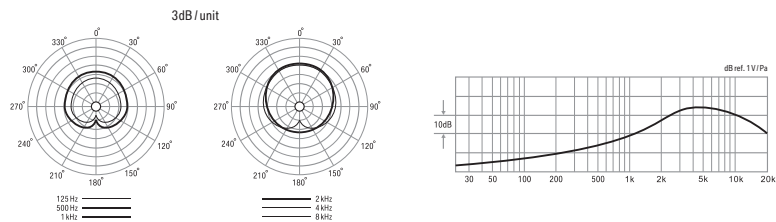
Dimensions



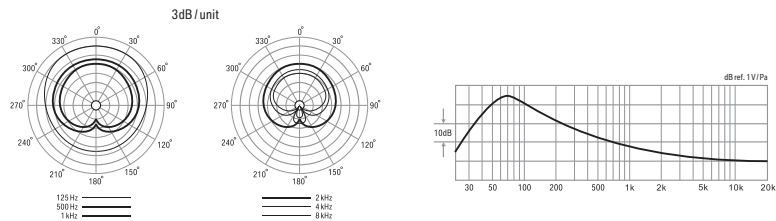
Dynamic EFR (Dynamic)



Dual EFR (Dynamic)



Dual EFR (Condenser)



Tech data

- Acoustical operating principle: dynamic, moving coil
condenser, permanently polarized
- Transducer Ø (dynamic): 31,7 mm
1,25 inch
- Transducer Ø (condenser): 22,4 mm
0,88 inch
- Directional pattern: cardioids, condenser and dynamic
- Frequency range: 20 ... 16.000 Hz, dynamic,
depending on EFR setting
20 ... 20.000 Hz, condenser,
depending on EFR setting
- EFR, 'Enhanced Frequency Response' settings: =// = FFR, 'Flat Frequency Response'
+// = Dynamic EFR, 'Dynamic Enhanced Frequency Response'
+// + Dual EFR, 'Dual Enhanced Frequency Response'
- Sensitivity, =// = FFR: 0,4 mV / Pa (-69 dBV) dynamic
2 mV / Pa (-54 dBV) condenser
- Sensitivity, +// = Dynamic EFR: 0,4 mV / Pa (-69 dBV) dynamic
2 mV / Pa (-54 dBV) condenser
- Sensitivity, +// + Dual EFR: condenser and dynamic matched at
1 mV / Pa (-60 dBV)
- Equivalent noise level: 28 dB-A (IEC 61672-1),
condenser, FFR
- Dynamic range of mic. amp.: 122 dB-A, condenser
- Max. SPL for 0,5 % THD: 150 dB, 0 dB pre-attenuation
160 dB, 10 dB pre-attenuation
170 dB, 20 dB pre-attenuation
- Pre-attenuation pad: 10 dB, 20 dB switchable
- Rated impedance: < 500 ohms, dynamic
< 200 ohms, condenser
- Supply voltage: 48 V +/- 4 V (IEC 61938)
- Current consumption: 2 mA (IEC 61938)
- Connector: gold plated 3-pin and 5-pin XLR
- Cable: 1,5 m (4,95') dual shielded Y-cable,
5-pin XLR into two 3-pin XLRs
- Dimensions: 71 dia. x 158 mm
2,8 dia. x 6,2 inch
- Net weight: 755 g
27,3 oz

Accessories



DTP 40 Trs



DTP 40 Lb



Cautions

- The capsule is a sensitive, high precision component. Make sure you do not drop it from high heights and avoid strong mechanical stress and force.
- To ensure high sensitivity and best sound reproduction of the microphone, avoid exposing it to moisture, dust or extreme temperatures.
- Keep this product out of the reach of children.
- Do not use force on the switch or cable of the microphone.
- When disconnecting the microphone cable, grasp the connector and do not pull the cable.
- Do not attempt to modify or fix it. Contact qualified service personnel in case any service is needed. Please do not disassemble or modify the microphone for any reasons as this will void users warranty.
- The casing of the microphone can be cleaned easily using a wet cloth, never use alcohol or another solvent for cleaning. If necessary the foam wind stopper can be washed with soap water. Please wait till it is dry before using it again.
- Also please refer to the owner's manual of the component to be connected to the microphone.

Warranty

All products manufactured by LEWITT GmbH feature a limited two-year warranty. This two-year warranty is specific to the date of purchase as shown on your purchase receipt.

LEWITT GmbH shall satisfy the warranty obligations by remedying any material or manufacturing faults free of charge at LEWITT's discretion either by repair or by exchanging individual parts or the entire appliance. Any defective parts removed from a product during the course of a warranty claim shall become the property of LEWITT GmbH.

While under warranty period, defective products may be returned to the authorized LEWITT dealer together with original proof of purchase. To avoid any damages in transit, please use the original packaging if available. Please do not send your product to LEWITT GmbH directly as it will not be serviced. Freight charges have to be covered by the owner of the product.

For further information please visit www.lewitt-audio.com or check your warranty card.

DTP 640 REX

Regulatory information



LEWITT GmbH declares under its sole responsibility that DTP 640 REX complies with the European directive 2004/108/EC. The product has been tested according to harmonized European standards:

EN 55013:2001+A1:2003+A2:2006

EN 55020:2007

EN 61000-3-2:2006

EN 61000-3-3:1995+A1:2001+A2:2005

Product testing was carried out by TIMCO Engineering Inc., notified body number 1177.

LEWITT GmbH hereby declares under its sole responsibility that DTP 640 REX has been tested and conforms to the following FCC and ANSI standards:

FCC Part 15:2008 Section 15.109

ANSI C63.4:2003

Product testing was carried out by INTERTEK Testing Services Shenzhen Ltd.



WEEE note: Electronic waste has to be collected separately. Please bring this device to a local recycling center at the end of its life time.

Manufacturers signature:

Date: 18th November 2010

Place: Vienna, AUSTRIA

DI Roman Perschon
CEO – Lewitt GmbH

Declaration of conformity can be downloaded at www.lewitt-audio.com or obtained from info@lewitt-audio.com.



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