

[www.lewitt-audio.com](http://www.lewitt-audio.com)



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. On stage as well as in studio settings, 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. 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 drum sets 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!



Our masterpiece, the dual-element cardioid DTP 640 REX optimized for kick drum applications, offers everything that professional drummers and audio engineers expect from a top-notch drum microphone. The DTP 640 REX combines a high-performance back-electret and a dynamic capsule in one mic. The dynamic element allows for accurate reproduction of punch and attack, while the condenser element captures the warm and round tonal response of the drum's shell. The result is a smooth, balanced, high quality drum sound that will leave a lasting impression on audiences large and small.

## Features

- Innovative dual-element design featuring a dynamic and a back-electret condenser capsule
- Optimized for kick drum applications
- Extraordinary maximum SPL of 168 dB
- Selectable -10 dB and -20 dB attenuation
- Selectable HPF settings
- Ruthenium-galvanized (black) hexagonal steel-mesh grille
- Gold-plated 5-pin XLR output connector
- Integrated microphone stand and compact design for convenient positioning
- Comes in a cardboard box with foam layers; includes DTP 40 Trs cable and DTP 40 Lb leather bag

## Top applications

- Bass instruments
- Live applications
- Recording

### Your mic

- ① Recessed attenuation slide switch for the condenser capsule
- ② Recessed high-pass filter slide switch for the condenser capsule
- ③ Electrostatic capsule
- ④ Dynamic capsule
- ⑤ 5-pin male XLR socket

### Setting an attenuation level

- Attenuation levels can be set by adjusting the recessed slide switch ①. Settings are: off, -10 dB and -20 dB. Attenuation is used in extremely high SPL environments in order to prevent clipping of the microphone, mixer and other audio equipment.

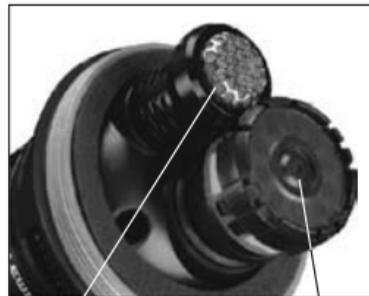
### Setting a high-pass filter

- High-pass filters can be set by adjusting the recessed slide switch ②. Settings are: Off, 12 dB / octave at 40 Hz and 6 dB / octave at 300 Hz. High-pass filters eliminate unwanted low frequency noise such as structure borne noise.



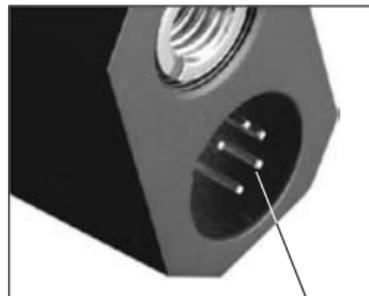
①

②



③

④



⑤

## Quick start

The DTP 640 REX utilizes two channels of your mixer; one for the condenser, the other one for the dynamic element. Please connect the 5-pin female XLR connector of the cable with your DTP 640 REX. The other end with the two standard 3-pin XLR's has to be connected with the mixer.

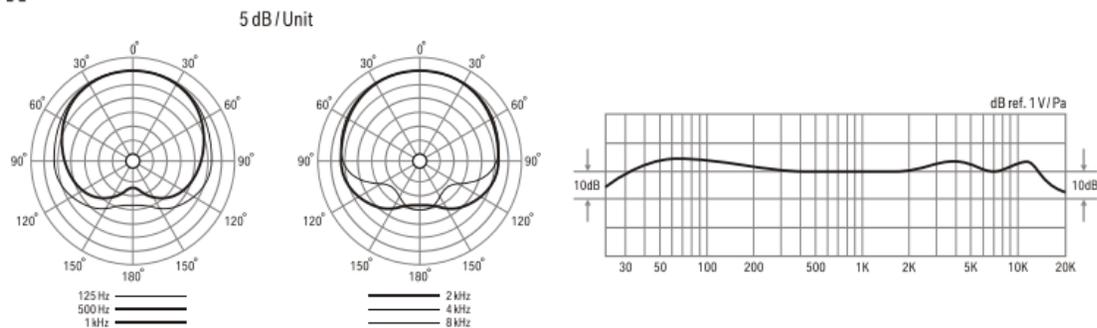
In order to get familiar with the characteristics of your DTP 640 REX we suggest that you set the condenser element to -10dB attenuation ① and linear frequency response ②. The easiest way to your desired sound is to first only power up one channel of your mixer. Once you are pleased by the result you can use the second channel to refine your sound.

Please note that the attenuation and high-pass functions are applied to the condenser capsule only!

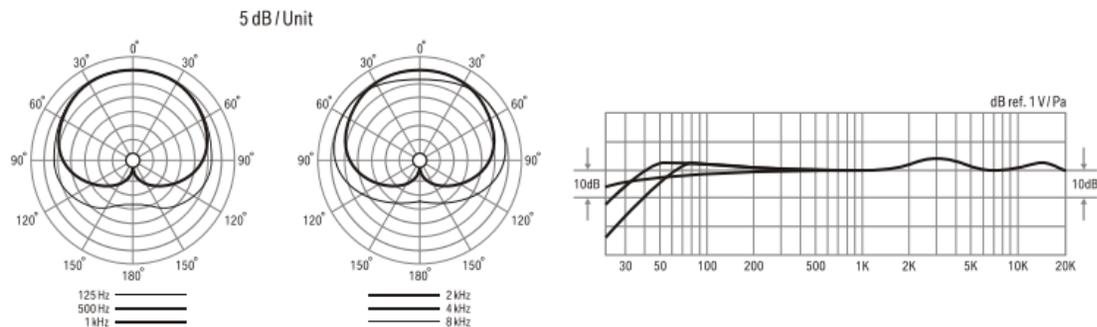
A bass-drum is a high SPL instrument! Activate a suitable attenuation ① of the condenser capsule in case your mixer experiences clipping.

## Tech graph

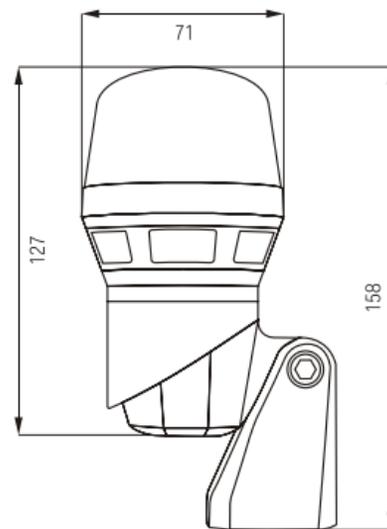
Dynamic



Condenser



## Dimension



## 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: cardioid (condenser & dynamic)
- Frequency range: 20 ... 16,000 Hz, dynamic  
20 ... 20,000 Hz, condenser
- Sensitivity: 2.5 mV / Pa (-52 dBV), dynamic  
6.3 mV / Pa (-44 dBV), condenser
- Equivalent noise level: 26 dB-A (IEC 61672-1), condenser
- Dynamic range of mic. amp.: 122 dB-A, condenser
- Max. SPL for 0.5% THD: 148 dB, 0 dB preattenuation  
158 dB, 10 dB preattenuation  
168 dB, 20 dB preattenuation
- Preattenuation pad: 10 dB, 20 dB switchable
- Bass cut filter slope: 12 dB / octave at 40 Hz  
6 dB / octave at 300 Hz
- 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 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: 775 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.

Certain products manufactured by LEWITT GmbH feature a limited five-year warranty. For this five-year warranty the same conditions as listed for the two-year warranty are applicable.

For further information please visit [www.lewitt-audio.com](http://www.lewitt-audio.com) or check your warranty card.



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](http://www.lewitt-audio.com) or obtained from [info@lewitt-audio.com](mailto:info@lewitt-audio.com).

Mooslackengasse 17  
1190 Vienna  
AUSTRIA  
[info@lewitt-audio.com](mailto:info@lewitt-audio.com)





**LEWITT**