www.lewitt-audio.com

ADD
MORE
POWER
TO
YOUR
TUNES. MTP 940 CM

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.

Music professionals know that it's often the smallest details that make all the difference in vocal and instrumental recordings.

With our MTP series, we aim to exceed artists' and audio engineers' expectations of reproduction accuracy and isolation of the main sound source. The new flagships among LEWITT's performance microphones – the MTP 840 DM and the 940 CM are true milestones of audio technology.

All MTP microphones are professional-quality handheld dynamic and condenser performance microphones have been developed specifically for the authentic, crystal-clear reproduction of vocals and are also well-suited for instrumental applications.

Customized frequency responses, a rugged construction, high gain before feedback and extremely low handling noise make all models of the MTP series the perfect fit for any application, any performance and any setting.

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

MTP 940 CM

Real studio performance onstage – at present, this can only be found in the top model of LEWITT's MTP Performance Series. Meeting the highest standards onstage and in the studio requires no less than the world's most technically advanced, most innovative and most full-featured handheld condenser microphone: the new MTP 940 CM – a milestone of audio technology.

The externally biased large-diaphragm capsule of the MTP 940 CM lends the lead voice the necessary presence in an infinitely subtle, detailed and authentic way. The source comes through clearly and authentically, processed with impressive feedback resistance and with undesired breath, popping and handling noise efficiently reduced to a minimum.

The MTP 940 CM boasts a 135 dB dynamic range – the widest ever achieved in a live microphone – due to its high headroom and LEWITT's own Direct Coupling circuit design, which makes possible an unbeatably low self-noise level of just 9 dB. This means that the MTP 940 CM is also ideal for use in the studio, whenever the goal is to create a live atmosphere with the highest degree of acoustic precision.

The MTP 940's comprehensive features and settings outshine those of more than a few purebred studio microphones. Three switchable polar patterns – wide cardioid, cardioid and supercardioid – ease recording of the most diverse sources; from lead vocals to choirs and on to classic unplugged situations with a singer and an acoustic instrument. A three-step high-pass filter makes it possible to directly influence the proximity effect, adapting it in the best-possible way to the sound source. And the three-position switchable preattenuation pad guarantees use even in extreme SPL environments. LEDs that can be switched off if desired, mean that checking settings quick and easy – a boon in dark environments and helpful in ensuring a fast and trouble-free setup process. The mic's extremely stable and rugged construction can take even the roughest everyday touring knocks with no problem.

For everyone who's always dreamed of taking their studio mic into their hands and onstage, or of recreating a live atmosphere in the studio at an uncompromising level of quality, the MTP 940 CM is the only right choice. With the optimal synergy between versatility, innovation and superior sound characteristics, it sets a new benchmark in the world of high-end microphones.

Features

- 1-inch externally biased, dual-system capsule with ultra-thin, gold-layered low-mass diaphragms ensure accurate transient response for nuanced and authentic sound
- Flat frequency response for natural sound
- Three consistent directional characteristics – cardioid, wide cardioid, supercardioid – for maximum flexibility in a variety of live and recording applications
- Superior dynamic range of 135 dB-A and exceptionally low self-noise of 9 dB-A thanks to innovative direct coupling technology (patent pending) for ear-catching realism and distortion-free sonic depth
- 3-position switchable pre-attenuation pad (0 dB, 6 dB, and 12 dB) for handling extremely high sound pressure levels
- 3-position switchable high-pass filter for direct adjustment of proximity effect according to application and artist
- Illuminated indication of microphone settings for quick and easy handling even in dark environments
- Recessed slide switches prevent unintended change of settings
- Effective integrated acoustic pop and windshield offers excellent protection without compromising high-frequency clarity
- Rock-solid full-metal, die-cast body for rough daily touring routine
- Hardened steel mesh grille to prevent wear and abuse
- Minimally affected by varying load impedance
- Corrosion-resistant gold-plated 3-pin XLR output connector
- Comes in a cardboard box including MTP 40 MCs shock mount and DTP 40 Lb artificial leather bag

Top applications

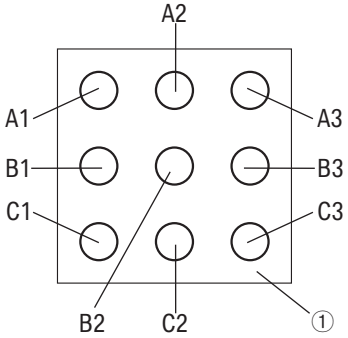
- Lead and background vocals
- Demanding live and studio applications

User-interface

① LED Display
② Polar pattern slide switch
③ Attenuation slide switch
④ High-pass filter slide switch
⑤ LED slide switch
⑥ Switch tool

LED Display ①

- A1: wide cardioid polar pattern
- A2: cardioid polar pattern
- A3: supercardioid polar pattern
- B1: no high-pass filter active
- B2: 12 dB / octave at 80 Hz
- B3: 12 dB / octave at 160 Hz
- C1: no attenuation active
- C2: -6 dB attenuation
- C3: -12 dB attenuation



Setting the polar pattern

- Three different directivity characteristics – wide cardioid, cardioid, supercardioid – can be selected by adjusting the polar pattern slide switch ②.

Setting an attenuation level

- Attenuation levels can be selected by adjusting the attenuation slide switch ③. Attenuation levels are: off, -6 dB and -12 dB. Attenuation is used in extremely high SPL environments in order to prevent clipping of the microphone, mixer and other audio equipment.

Setting an high-pass filter

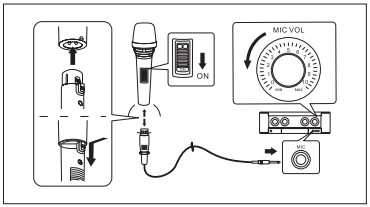
- A high-pass filter can be selected by adjusting the high-pass filter slide switch ④. Settings are: off, 12 dB / octave at 80 Hz and 12 dB / octave at 160 Hz. High-pass filters eliminate low-frequency sounds and balance the proximity effect.

Turn the LED display on or off

- The LED display can be activated and deactivated by setting the LED slide switch ⑤.

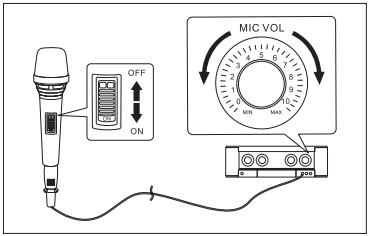
Connecting and Disconnecting the Microphone Cable

- Before establishing connection, make sure that the microphone and the component (e.g. amplifier) are switched off.
- Lower the volume of the component (e.g. amplifier) before connecting the microphone.
- Insert the connector into the microphone socket. Align the key on the connector with the groove in the microphone, and then push the connector into the microphone until it clicks.
- To disconnect the cable from the microphone, pull the connector away from the microphone while depressing the latch lock.



How to Use

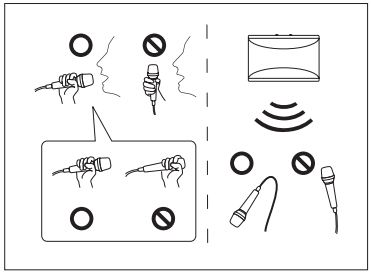
- Set the switch to ON when using the microphone, set it to OFF when it is not in use (only applicable if your microphone has an ON/OFF switch).
- When using the microphone, do not cover any part of the grille with your hand to ensure best sound quality and accurate directivity characteristic.



Hints

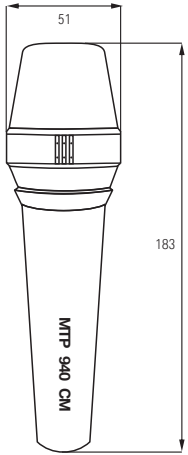
- In order to prevent feedback (howling):

1. Lower the volume.
2. Place the microphone so that it is not pointed to the speaker and that there is a sufficient distance between the microphone and the speaker.
3. Do not cover the lower part of the grille with your hand.



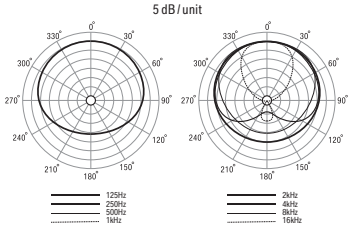
- Positioning the microphone close to the sound source causes the so-called proximity effect (a boost in the low frequency response). This phenomenon can be used to create a richer and warmer bass sound.

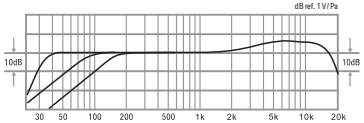
Dimensions



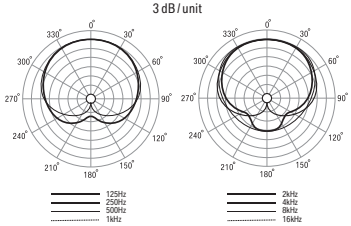
Tech graph

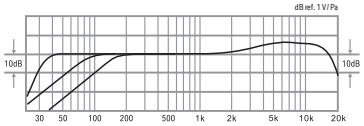
wide cardioid



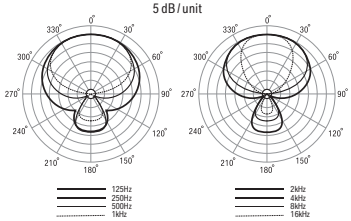


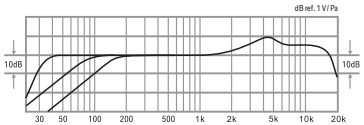
cardioid





super-cardioid





Tech data

- Acoustical operating principle: Pressure gradient transducer, externally polarized
- Transducer Ø: 25,4 mm
  1 inch
- Directional pattern: wide cardioid
  cardioid
  super-cardioid
- Frequency range: 20 to 20.000 Hz
- Sensitivity: 10 mV / Pa (-40 dBV), cardioid
- Signal / noise ratio: 85 dB-A
- Equivalent noise level: 9 dB-A, cardioid (IEC 61672-1)
- Dynamic range of mic. amp.: 135 dB-A
- Max. SPL for 0,5 % THD: 144 dB, 0 dB pre-attenuation
  150 dB, 6 dB pre-attenuation
  156 dB, 12 dB pre-attenuation
- Pre-attenuation pad: 6 dB, 12 dB, switchable
- Bass cut filter slope: 12 dB / octave at 80 Hz
  12 dB / octave at 160 Hz
- Rated impedance: < 150 ohms
- Rated load impedance: > 1.000 ohms
- Supply voltage: 48 V +/- 4 V (IEC 61938)
- Current consumption: 5,5 mA (IEC 61938)
- Connector: Gold plated 3-pin XLR
- Dimensions: 51 dia. x 183 mm
  2 dia. x 7,2 inch
- Net weight: 332 g
  11,71 oz

Accessories

MTP 40 MCs

DTP 40 Lb

Cautions

- The capsule is a sensitive, high precision component. Make sure you do not drop it from high places 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.
- Since the microphone consists of precise parts, do not attempt to modify or fix it. Contact qualified service personnel in case any service is needed. 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.

CE

LEWITT GmbH declares under its sole responsibility that MTP 940 CM 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 MTP 940 CM 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 SEM.Test Compliance Service Co., 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: 25th July 2013
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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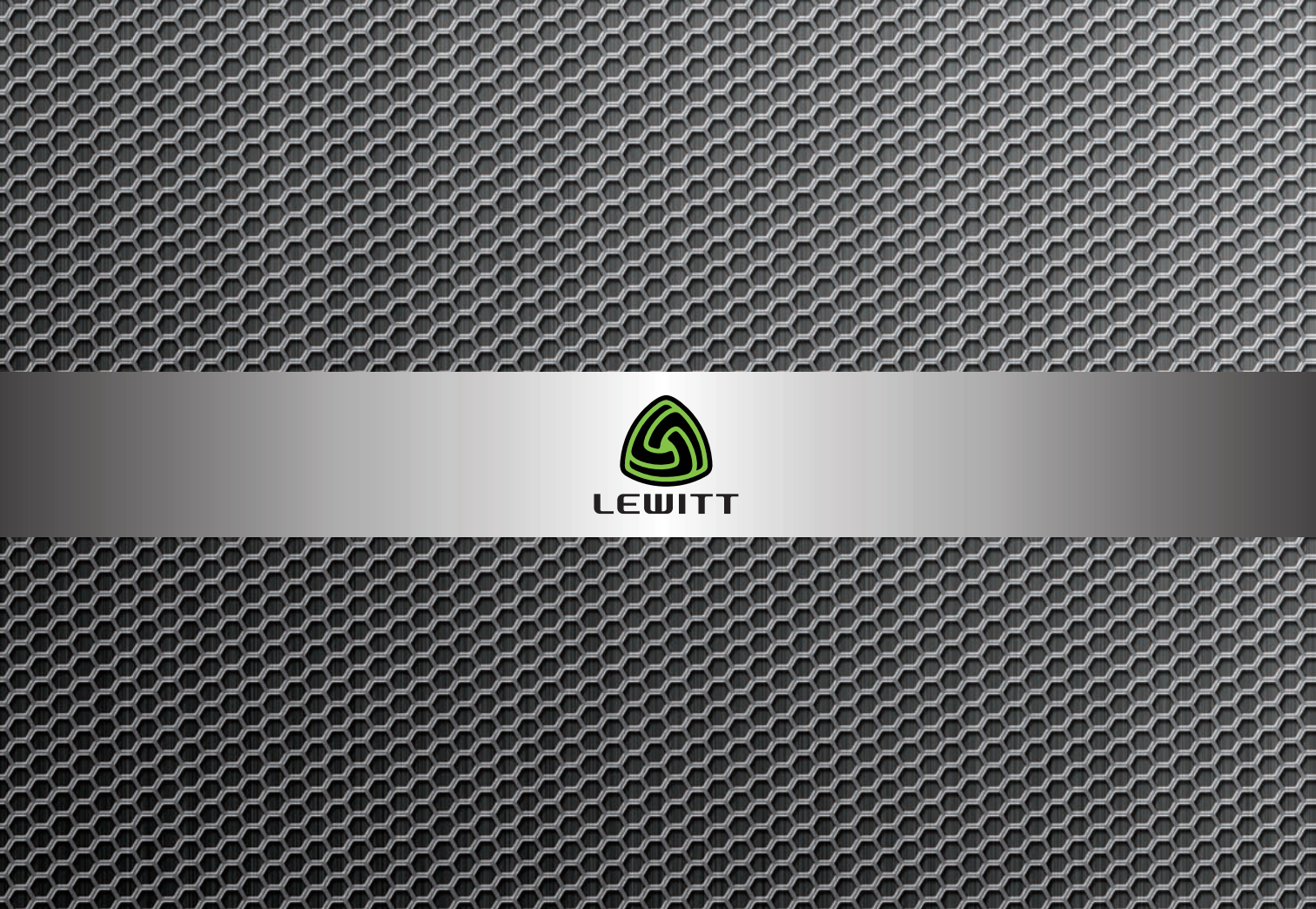
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