DSSM

TECHNICAL DATA

Digital Wireless Water-Resistant Micro Transmitter

DSSM-A1B1, DSSM-B1C1, DSSM/E01-A1B1, DSSM/E01-B1C1, DSSM/E07-941

- **Extremely compact - ideal for theater and sports broadcasting**
- **IP57 rated for moisture resistance**
- **High density mode for maximum channel counts in limited spectrum**
- **Selectable power; 10 or 35 mW (D2 mode)**
- **Offers over 6000 frequencies across a wide UHF range**
- **Two-way IR port for easy set-up**
- **Firmware updates via USB/Wireless Designer**
- **Wide range input gain control in 1 dB steps**
- **Dock chargable with optional CHSDSSM unit**

The DSSM is the enhanced, fully digital successor to the SSM, while being IP57 rated for watertightness and offering dock charging capability.

The IP57 rating indicates that the unit is protected against dust ingress while also withstanding water immersion up to 1 meter for 30+ minutes – perfect for the most demanding work environments. All while allowing for quick battery swap-outs.

The DSSM is ideal for theater, TV, film and broadcast environments where concealment and water-resistance is required. The DSSM offers an extensive feature set and performance packed into an exceptionally compact housing, compatible with all current Lectrosonics digital receivers, including the DSQD, DCR822, DSR, DSR4, M2Ra, and DCHR.

The DSSM includes specially developed, high efficiency circuitry for extended operating time on the rechargeable LB-50 battery. RF power selections are offered at 10 and 35 mW (D2 compat mode) and a special high density (HDM) mode at 2 mW.

The servo bias input accepts mic or line level signals with a wide range of gain adjustment in 1 dB steps. Accurate indications on the display allow precise gain adjustments to be made for the maximum signal to noise ratio and minimum distortion. The limiter in the preamp can cleanly handle signal peaks over 30 dB above full modulation, allowing the input gain to be set high enough to achieve the maximum signal to noise ratio, yet provide protection against input overload.

The audio input jack is a common subminiature 3-pin connector with a threaded collar adding additional ruggedness. An IR (infrared) port next to the antenna allows transfer of frequency and compatibility mode settings, and encryption keys.

The membrane switch panel and OLED display enable access to all adjustments and settings. The menu structure is easy to navigate. Battery status is indicated by a defeatable bi-color LED that is green with a fresh battery, then turns to red as the battery runs down, and finally starts blinking red when there are only a few minutes of runtime remaining.

The housing is constructed of machined aluminum alloy treated in the conductive, super hard electroless nickel **ebENi** finish.

A flexible, repositionable wire belt clip (to orient the antenna facing up or down) is included.

The optional CHSDSSM battery charging station provides a convenient and organized means of recharging up to 4 LB-50 batteries or DSSM transmitters in larger systems with numerous batteries in regular use. Each charging module may be daisy-chained to 3 additional modules using a single AC-DC power supply (DCR5/9AU - not included) for a total of 16 units charging at once (LB50's and/or DSSMs).

NOTE: To order the DSSM with a #40117 USB-powered dual battery charger, order as ZS-DSSM-WITH-CHARGER KIT. Contact the Factory for details.

LECTROSONICS®
Rio Rancho, NM, USA
www.lectrosonics.com

Specifications

Operating Frequencies:

DDSSM - A1B1	470.100 - 607.950
DSSM/E01-A1B1:	470.100 - 614.375
DSSM-B1C1 (US)	537.600 - 607.950 614.400 - 615.950 653.050 - 662.950
DSSM/E01-B1C1:	537.600 - 691.175
DSSM/E07-941:	941.525 - 951.575 953.025 - 956.225 956.475 - 959.825

NOTE: It is the user's responsibility to select the approved frequencies for the region where the transmitter is operating.

Frequency Selection Steps:	25 kHz
RF Power output:	Selectable; 10, 35 mW or 2mW (HD mode)
Compatibility Modes:	HDM or D2 (all models)
Frequency Stability:	± 0.002%
Spurious radiation:	Compliant with ETSI EN 300 422-1
Equivalent input noise:	–120 dBV (A-weighted)
Input level:	Nominal 2 mV to 300 mV, before limiting. Greater than 1V maximum, with limiting.
Input impedance:	• Mic: 300 or 4.5 k ohm; selectable • Line: 900 ohm • Instrument: 1 M ohm
Input limiter:	DSP controlled, dual envelope "soft" limiter with greater than 30 dB range
Gain control range:	-7 to +44 dB; digital control, 1 db steps
Modulation indicators:	Dual bicolor LEDs indicate modulation of -20, -10, 0 and +10 dB referenced to full modulation

Audio Performance:

Frequency Response:	35-20 kHz; 35-15 kHz (HDM compat mode)
Low frequency roll-off:	Selectable; 35, 50, 70, 100, 120, 150 Hz
THD:	0.2% (typical)
Controls:	Front panel membrane switches with OLED interface for power on/off and all setup and configuration controls
Audio Input Jack:	Subminiature; locking
Antenna:	SMA connector; coated, flexible wire, length by frequency band

Battery:	Lithium-ion 3.6 V 1000 mAH LB50 battery pack (included)
Battery Life:	6 hours per charge @ 35 mW
Weight:	3.5 ounces (100 grams) including lithium battery pack
Dimensions (housing):	2.59 x 1.9 x .70 in. (66 x 49 x 17 mm)
Emission Designator:	110KG1E (HD mode); 170KG1E (D2 mode)

Specifications subject to change without notice.

For body worn operation, this transmitter model has been tested and meets the FCC RF exposure guidelines when used with the Lectrosonics accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Contact Lectrosonics if you have any questions or need more information about RF exposure using this product..

This device complies with FCC radiation exposure limits as set forth for an uncontrolled environment. This device should be installed and operated so that its antenna(s) are not co-located or operating in conjunction with any other antenna or transmitter.

This device complies with ISED Canada radiation exposure limits as set forth for a controlled "professional" use only.

Cet appareil est conforme avec les normes d'Industrie Canada concernant les limites d'exposition aux radiations pour un usage professionnel contrôlé seulement.

LECTROSONICS®
581 Laser Road NE • Rio Rancho, NM 87124 USA • www.lectrosonics.com
(505) 892-4501 • (800) 821-1121 • fax (505) 892-6243 • sales@lectrosonics.com

26 March 2024