**Introduction**

The DPA d:dicted™ Miniature Microphones are designed for use with wired or wireless systems in theater, film, television, conferences and instrument close-miking applications.

To ensure optimal performance of your d:dicted Microphone, please follow the simple care and maintenance instructions below. Our d:dicted Miniature Microphones are designed to be resistant to humidity and moisture. Highly resist-ant materials like gold plated stainless steel, and features like the double-vent protection system, ensures that you avoid damage by fluids. Keep your discreet Miniature Mics away from water and cleaning fluids, and keep the microphone element dry at all times.

**Cleaning guide**

The cable and protection grid are the only parts that may be cleaned. Do not use any kind of cleaning fluid other than deni-meralized water. Avoid all kinds of spray or fluids containing chemi-cal components to avoid static electricity on or close to the microphone as this could damage the electret layer.

When mounting a discreet Microphone directly on or close to the skin of a performer, care should be taken to avoid sweat from running into the microphone. If the microphone has been exposed to sweat, it must be rinsed out in demineralized water and left to dry out to recover its original specifications. Drying out the microphone between exposures to humidity will also help to extend its lifetime. If the microphone gets filled up with water it will not be damaged, but possibly turn deaf while the water is captured inside the microphone, behind the protection grid. Remove the water by shaking the microphone or drying it with a piece of lint free cloth.

**Cleaning the microphone grid**

During use in environments where the microphone is exposed to makeup or dusty materials, the grid may get clogged up. Remove the microphone grid from the microphone element (not applicable to SC4071, SC4071-H and 4080) and clean the grid using a soft cloth and demineralized water only. Make sure the grid is dry before re-mounting it on the microphone housing. For SC4071, SC4071-H and 40800 (which do not feature removable grids) cleaning the grid is done using a soft cloth and demineralized water.

**Cleaning the microphone cable**

Residue from tape, glue, or makeup on the cable must be re-moved after use. Leaving these substances on the cable over longer periods of time may etch into the cable jacket and will make the cable more susceptible to breaks. The cable can easily be cleaned using organic oil (e.g. olive oil) or lukewarm, dem-ineralized water. Do not bend the cable or rub it harshly since this may stress the inner cores of the cable and cause them to break over time.

**Microphone grids**

The discreet Miniature Microphones (SC4060/61, SC4061-H) are supplied with two different grids for acoustic equi-alization, depending on the placement on the performer; a soft boost grid (pre-fitted) giving a 3 dB soft boost at 8-20 kHz. Alternatively, the high boost grid for chest mounting gives ap-proximately 10 dB boost at 12 kHz. Without any grid mounted, the microphone is linear, but unprotected against dirt.

**Correct treatment of the microphone cable**

The cable is usually longer than required for its actual purpose. Make sure that superfluous cable is wound up in soft loops (preferably 6 – 8 cm (2.5 – 3 in) in diameter). Avoid kinking the cable. Handling noise from the cable can be reduced significantly by making a loose cable loop, as close to the microphone element as possible.

**Correct use of adapters and MicroDot connectors**

To provide users with safe and compact mounting of connectors, all our discreet Miniature Microphones are fitted with the MicroDot connector. A broad range of adapters is offered as optional accessories for most wireless systems for professional use. Never attempt to loosen or tighten the connector by the cable or its strain relief. Some wireless systems require the use of electronic components inside the adapter to optimize the signal level, the DC-offset filtering, and powering of the built-in microphone preamplifier.

Always use the adapters from DPA Microphones with the wire-less systems to ensure the correct electronic circuit. Do not use non-standard adapters or connectors as you might damage the microphone preamplifier.

Learn more at www.dpa microphones.com

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**Fig. 1. 4080 Miniature Cardioid Microphone, Lavalier**

**Fig. 2. Loop between holder and clip on 4080**

**Fig. 3. Securing the cable with the cable clamp on 4080**

**Fig. 4. Place 4080 20-25 cm (8 – 10 in) from mouth**

**Fig. 5. SC4071 in SCM0017 Miniature Mic Holder**

**Fig. 6. SC4060 in SCM00017 Miniature Mic Holder**

**Fig. 7. SC4060-H Heavy Duty in SCM0001 Miniature Clip**

**Fig. 8. SC4160 in SCM0004 Miniature Clip, Small**
Specifications

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**Polar pattern**

- SC4080: Cardioid

**Principle of operation**

- SC4080: Pressure Gradient

**Cartridge type**

- Pre-polarized condenser element with vertical diaphragm

**Frequency range, ± 2 dB**

- SC4080: 20 Hz – 20 kHz, 3 dB soft boost at 8 – 20 kHz
- SC4061: 20 Hz – 4 kHz, 10 dB boost at 12 kHz

**S/N ratio (A-weighted) re. 1 kHz at 1 Pa**

- SC4060, SCO60-H, 4080: 71 dB
- SC4061/63/71, SCO61-H/71-H: 68 dB
- SC4062: 61 dB

**Total Harmonic Distortion (THD)**

- SC4060, SC4061, SC4062: <1% THD up to 123 dB SPL peak
- SC4060, SC4061, SC4062: <1% THD up to 120 dB SPL RMS sine

**Dynamic Range**

- SC4060, SC4061, SC4062: Typ. 100 dB
- SC4061, SC4062: Typ. 97 dB
- SC4062: Typ. 94 dB

**Max. SPL peak before clipping**

- SC4060, SC4061/62/63: 134 dB
- SC4067: 144 dB
- SC4062: 134 dB
- SC4061: 138 dB

**Output impedance**

- 30 – 40 Ω, depending on current draw

**Cable drive capability**

- 300 m (984 ft) with DAD6001-BC/DAD6024/DAD4099 XLR phantom power adapter

**Power supply**

- With DAD6001-BC/DAD6024/DAD4099: 48 V phantom power ±4 V for full performance
- For wireless systems: Min. 5 V through DPA adapter (SC4063 min. 3 V)

**Polarity**

- Positively increasing sound pressure produces positive going voltage on MicroDot pin.

**Connector**

- MicroDot, adapters are available

**Weight incl. cable and MicroDot connector**

- SC4060/61/62/63: 7.5 g (0.26 oz)
- SC4071: 9 g (0.32 oz)
- 4080: 15 g (0.53 oz)
- SCO60-H/61-H: 13 g (0.46 oz)
- SCO71-H: 14 g (0.49 oz)

**Cable length**

- 1.8 m (5.9 ft) (4080: 1.2 m (4 ft))

**Cable diameter**

- SC4060/61/62/63/71, 4080: 1.6 mm (0.06 in)
- SCO60-H/61-H/71-H: 2.2 mm (0.09 in)

**Service & Repair**

- Products from DPA Microphones are extremely stable and there should not be any significant change in the specifications with time and use. If, however, you are not totally satisfied with the characteristics exhibited by these products, please contact your nearest DPA Microphones representative for further details of service and the repair facilities that are available.

**Warranty**

- All products from DPA Microphones are covered by a two-year limited warranty on both mechanical functionality and documented specifications as long as the items are not mistreated, abused or modified in any way. In case of a warranty claim your invoice is your warranty registration.

**Environmental Policy**

- This product is comprised by the Waste (WEEE) directive and should not be thrown in the garbage bin when obsolete. Instead, return it to your local DPA representative (or DPA Microphones A/S directly) who will dispose of the product in accordance with the current environmental standards.

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**CE Marking**

- The CE mark guarantees that the product conforms with relevant directives approved by the European Commission.

**Low voltage directive: 2006/95/EC**

**EMC directive: 2004/108/EEC**

**RoHS directive: 2002/95/EC**

**WEEE directive: 2002/96/EC**

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Product features and specifications are subject to change without notice.