

### Introduction

Typical applications for the DPA 4071/4073 are ENG/EFP use on the reporter in studio or in the field, or film production use with hidden microphone placements on the actors. To ensure optimal performance of your DPA Miniature Microphone, please follow the simple care and maintenance instructions below.

### Cleaning guide

Miniature Microphones from DPA are designed to be very resistant to humidity, moisture and sweat. Highly resistant materials are used in construction of the microphones, to avoid damage by hostile fluids.

In any case, it is still good practise to keep the 4071/4073 away from any kind of unnecessary exposure to water and cleaning fluids and to keep the microphone element dry at all times. The cable and protection grid are the only parts that may be cleaned if necessary. The protection grid is permanently fixed and protects the microphone element inside. Do not attempt to remove the protection grid under any circumstances. Do not use any kind of cleaning fluid other than distilled water. Avoid all kinds of spray or fluids, which contain chemical components to remove static electricity on or close to the microphone as this could cause permanent damage to the electret layer.

When mounting the 4071/4073 directly on the skin of a performer, care should be taken to avoid sweat from running directly into the microphone. If the microphone gets filled up with water or sweat 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 gently or drying it with a piece of lint free cloth. When it is left to dry out it will recover its original specifications. Drying out the 4071/4073 between exposures to humidity will also help to extend its lifetime.

### Cleaning the microphone grid

During use in environments where the microphone is exposed to make-up or dusty materials, the grid may get clogged up. If needed, clean the grid using a soft cloth and distilled water only.

### Cleaning the microphone cable

Residue from tape, glue or make-up on the cable must be removed after use using organic oil (e.g. olive oil) or lukewarm, distilled water. Use of organic oil after cleaning the cable may help protect the cable sleeve thereby prolonging its useful life.

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.

### Correct use of adapters and MicroDot connectors

To provide users with safe and compact mounting of connectors, all Miniature Microphones from DPA are fitted with the MicroDot connector as standard. A broad range of connection adapters is offered as optional accessories for most VHF and UHF systems for professional use. A connector-tightening tool is supplied with each adapter and is the only recommendable way to tighten the MicroDot.

### Correct use of the Miniature Microphone

It is important to observe the following guidelines concerning the daily use of the microphone.

### Correct treatment of the microphone cable

The cable is usually longer than required for its actual purpose. Ensure that superfluous cable is wound up in soft loops (preferably 6-8 cm in diameter). Handling noise from the cable can be decreased by up to 30 dB by making a loose loop in the cable, as close to the microphone element as possible.

Learn more at [www.dpamicrophones.com](http://www.dpamicrophones.com)



Miniature Concealer



Tie Pod



Miniature Mic Tape

### FMK4071 FILM MICROPHONE KIT

Also available as DAK4071-F excluding microphone.

This kit is made for Film or TV production use, when the microphone is not allowed to be visible. It contains a 4071-BM Miniature Microphone and the following accessories:

#### DMM0009 Miniature Concealer

For hidden placement on performer securing from friction noise. Can be sewn or taped into clothing.

#### Double-sided Tape for DMM0009 10 pcs. (ADH0002)

#### DMM0010 Tie Pod, 3 pcs.

For hidden placement inside the tie knot.

#### ADH0001 Double-sided Tape for Tie Pod, 25 pcs.

#### ADH0003 Miniature Mic Tape, 25 pcs.

Self-adhesive pads for use directly on 4071.

#### ADH0004 Double-sided Mic Tape, 10 pcs.

Self-adhesive mounting tape for use directly on 4071.

#### DUA0571 Miniature Windjammer

For use in heavy wind. Insensitive to handling noise.

#### DUA0572 Miniature Mesh

For slight wind or pop reduction.

#### DMM0009 Miniature Concealer

For hidden placement on performer securing from friction noise. Can be sewn or taped into clothing.



Miniature Holder, Double Pin



Miniature Windjammer



Miniature Holder, Single Pin

### EMK4071 ENG/EFP Microphone Kit

This kit is made for ENG/EFP use, when the microphone is allowed to be visible. It contains a 4071-BM Miniature Omnidirectional Microphone and the following accessories:

#### DAD6024 Adapter: MicroDot to 3-pin. XLR (P48) w. Mid Range Attenuation

#### DMM0006 Miniature Holder, Single Pin

Ensures maximum mounting stability on the chest of a speaker, especially on thick clothes.

#### DMM0008 Miniature Clip, Double Lock

Easy mounting on the chest of a speaker with double lock.

#### DUA0570 Miniature Windscreens (8 colours)

Discreet windscreens made of foam protecting from wind and pop-noises.

#### DUA0571 Windjammer for 4071

For use in heavy wind. Insensitive to handling noise.

#### DUA0572 Miniature Mesh

For slight wind or pop reduction.

#### DMM0002-B Miniature Double Pin

Versatile holder for easy mounting on chest of a speaker.



Miniature Microphone with presence boost

# Specifications

DPA 4071/4073



## Directional characteristics

Omnidirectional

## Principle of operation

Pressure

## Cartridge type

Pre-polarized condenser element with vertical diaphragm

## Frequency range $\pm 2$ dB

100 Hz – 15 kHz with typ. 5 dB soft boost at 4-6 kHz

## Sensitivity, nominal, $\pm 3$ dB at 1 kHz

6 mV/Pa; -44.4 dB re. 1 V/Pa

## Equivalent noise level, A-weighted

Typ. 26 dB(A) re. 20  $\mu$ Pa (max. 28 dB(A))

## Equivalent noise level ITU-R BS.468-4

Typ. 38 dB (max. 40 dB)

## S/N ratio, re. 1 kHz at 1 Pa (94 dB SPL)

Typ. 68 dB (A)

## Total Harmonic Distortion (THD)

<1% up to 123 dB SPL peak  
<1% up to 120 dB SPL RMS sine

## Dynamic range

Typ. 97 dB

## Max SPL, peak before clipping

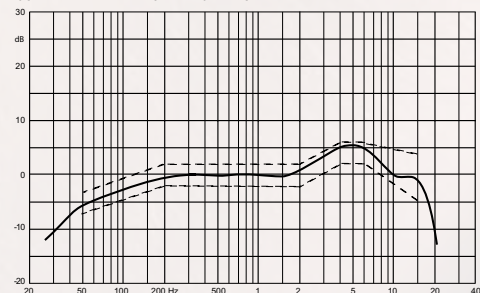
144 dB

## Output impedance

30-40 Ohm

## Frequency Response

Typ. on-axis frequency response of DPA 4071/4073 with tolerance field



## 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, 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.

## Cable drive capability

Up to 300 m (984 ft), with DAD6001: 30 m (98.4 ft)

## Power supply

4071: Min 5 V – max 50 V through DPA adapter  
4073: Min 3 V – max 50 V through DPA adapter

## Connector

MicroDot, adapters are available

## Weight

9 g (0.32 oz) incl. cable and MicroDot connector

## Capsule diameter

54 mm (0.22 in)

## Cable Length

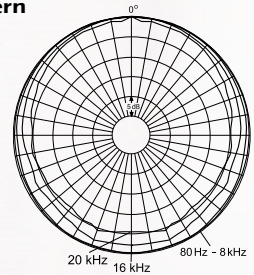
1.8 m (5.9 ft)

## Polarity

Positively increasing sound pressure produces positive going voltage on MicroDot pin



## Polar Pattern



Directional Characteristics of DPA 4071 without mesh or windjammer (normalized)

## CE MARKING

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

EMC directive: 2004/108/EEC

Low voltage directive: 2006/95/EC



## 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.

RoHS directive: 2002/95/EC  
WEEE directive: 2002/96/EC



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MICROPHONES