

## **USER'S MANUAL**

MSS6000 Microphone Summation System

Type **MSS6000**



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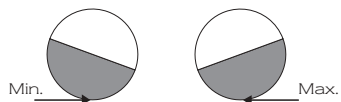
## TECHNICAL DESCRIPTION

The MSS6000 Microphone Summation System is a professional microphone and preamp summation system designed primarily for amplifying stringed instruments such as violin, cello and bass in an orchestral setup.

The complete system consists of five Stereo Satellite Boxes (SSB6000), one Master Sum Box (MSB6000), ten Miniature Microphones (4061), five MSS6000 cables (DAO0003), ten Microphone Holders for Strings (MHS6001) and ten Universal Surface Mounts (DMM0007) all supplied in a secure and durable Samonsite® briefcase.

### SSB6000 Stereo Satellite Box

The Stereo Satellite Boxes have 2 input channels with MicroDot connectors. Each box has individual level and pan adjustments for each microphone connected to the box. The centre of the red mark indicates the position.



On each side of the Satellite boxes are input and output connectors for the 4-pin XLR cables, to connect the boxes with each other and to the final Master Sum Box.

### MSB6000 Master Sum Box

The Master Sum Box incorporates two high-performance, transformer-coupled mic preamplifiers for the microphone outputs. The whole system is powered by two channels of 48V phantom power from your mixing console.

**No separate power supply unit is needed. However, both Master Sum Box outputs must be connected simultaneously to a console/stage box with 48V Phantom, to power the system.**

### 4061 Miniature Microphones

The MSS6000 Microphone Summation System is designed specifically for use with 4061 Miniature Microphones, which are terminated with MicroDot connectors as standard.

Connect the male MicroDot connector on the microphone to the female MicroDot input connector on the individual Stereo Satellite Box (SSB6000). Two connector tightening tools are supplied with the MSS6000 and should be employed whenever the MicroDot connector needs to be tightened safely to the Stereo Satellite Boxes. Never try to loosen the connector by the cable or its strain relief. Despite the use of Kevlar®, the cable might be damaged if twisted with excessive force. Do not use glue to tighten the MicroDot.

The MSS6000 is primarily designed for use with 4061 but may also be used with other DPA miniature microphone models. For example, for miking large choir events, the Miniature Microphone Headband models 4065 and 4066 could be used with the MSS6000.

**For complete specifications of the microphones, as well as detailed care and usage instructions, please see the user's manuals included with each microphone.**

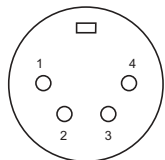
**The microphones and the MSS6000 system will only operate within their specifications if powered correctly.**



MicroDot connector

### DAO0003 MSS6000 Cable, 3m (9.8 ft)

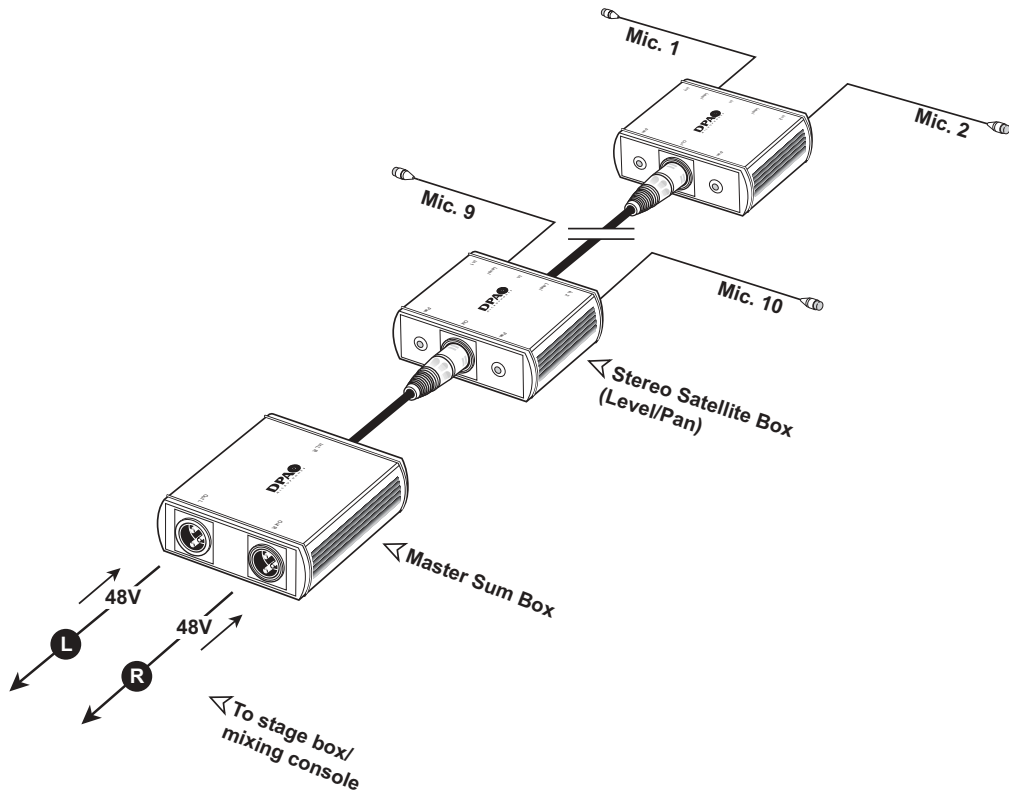
For the MSS6000, the dedicated DAO0003 cables are used to connect the individual Satellite Boxes to each other and to the final Master Sum Box. DPA guarantees adherence to the specifications listed based on the use of the cables supplied. The cable length of each DAO0003 is 3 meters (9.8 ft.).



- 1: Ground
- 2: Left audio
- 3: Right audio
- 4: DC Supply + 9V

### Pin configuration of DAO0003 4-pin XLR cable. (male, external view).

To connect the Master Sum Box to the stage box or mixing console, standard 3-pin XLR cables should be utilised (not included).



## HOLDERS INCLUDED

### MHS6001



10 pcs. Miniature Holders for Strings for attachment of a DPA Miniature Microphone on violin, viola, cello or double bass.  
(Reorder No. MHS6001)



The holders are to be mounted between the tailpiece and the bridge and either over or under the strings according to the desired sound colour or sound level. Mounting above the strings will give the most natural sound. Under the strings will give most level.

### DMM0007



10 pcs. Universal Surface Mounts for attachment of a Miniature Microphone on a wide variety of musical instruments. These mounts can also be used to direct and restrain any excessive mic cable, for example on the bottom of a violin or guitar.  
(Reorder No. DMM0007, 5 pcs.)



The soft rubber holder uses a special non-marking adhesive backing, to mount the microphone at virtually any location on the musical instrument. This adhesive, while providing a firm location for microphone mounting, retains its ability to adhere through multiple uses.

## SPECIFICATIONS

### SSB6000: Stereo Satellite Box

#### Inputs:

Microphone input, 2 channels with MicroDot Connector. 1 pcs. 4-pin female XLR, to link from another SSB6000.

#### Output:

1 pcs. 4-pin male XLR, to connect the MSB6000 Master Sum Box or another SSB6000.

#### Frequency Range:

100Hz -10kHz (-3dB) with Soft Boost Grid  
100Hz -15kHz (-3dB) with High Boost Grid.

#### Hi-cut:

-6dB/oct. from 10kHz

#### Lo-cut:

-6dB/oct. from 100Hz

#### Max SPL input handling:

System unloaded: 134dB  
System loaded: 128dB (10 pcs. 4061)

#### Attenuation:

4.5dB to ∞ dB, each channel

#### Microphone input impedance:

1.8k Ohm

#### Dimensions:

9.5 x 10.4 x 3.4cm (3.75 x 4.10 x 1.4in)

#### Weight

270g (9.5oz)

### MSB6000: Master Sum Box

#### Input:

Single 4-pin female XLR, to connect from the SSB6000

#### Outputs:

Dual 3-pin male XLR, 2 channel microphone outputs

#### Power supply:

48V phantom, applied simultaneously to the 2 microphone outputs.

#### Output impedance:

Lundahl® output transformer, < 600 Ohms

#### THD:

0.02% (100Hz - 10kHz)

#### Crosstalk:

-70dB at 1kHz

#### Cable drive capability:

200 meters

#### Dimensions:

12 x 10.4 x 3.4cm (4.7 x 4.10 x 1.4in)

#### Weight:

400g (14.0oz)

#### 4061 Miniature Microphone

Please see the User's Manual for Miniature Microphones, included with each 4061 microphone.

### **ACCESSORIES INCLUDED**

MSB6000 Master Sum Box, 1 pcs.  
SSB6000 Stereo Satellite Box, 5 pcs.  
4061-BM Miniature Microphone, 10 pcs.  
DAO0003 MSS6000 Cable, 5 pcs.  
MHS6001 Microphone Holder for  
Strings, 10 pcs.  
DMM0007 Universal Surface  
Mount, 10 pcs.  
KE6000 Samsonite® Case

### **ACCESSORIES AVAILABLE**

SBH6000 Satellite Box Holder

### **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. DPA Microphones has a maximum seven working days in-house service policy, usually ensuring that no more than seven working days will elapse from the day we receive the item for service to the day we are ready to return it to you.

### **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.

### **CE STANDARD**

The CE-mark guarantees all products conform to relevant standards approved by the European Community. The products described in this User's Manual comply with current relevant standards when used with cables from DPA Microphones. EMC Directive: 89/336/EEC, amended by 92/31/EEC and 93/68/EEC Low Voltage Directive: 73/23/EEC, amended by 93/68/EEC.



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Product features and specifications are subject to change without notice.

DP1M556000



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