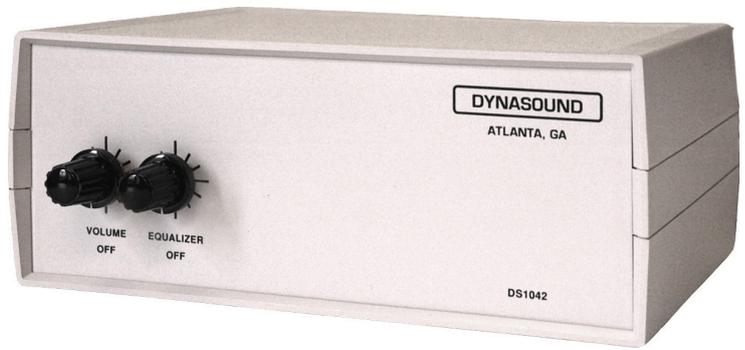


# INSTALLATION GUIDE

## DYNASOUND PRO DS1042 SOUND MASKING SYSTEM



### UNPACKING

The unit was carefully checked before leaving the factory. Inspect both the unit and its shipping container for indication of improper handling. Report any equipment damage to the distributor immediately. If the unit was shipped to you, notify the shipping carrier without delay and place your claim. Unpack the unit. It is ready to be installed.

**NOTE:** When a control knob is set to OFF, it is at the 0° setting. To adjust the volume or equalizer control, you can move the knob either clockwise or counter-clockwise within a range of 0° to 359°. Using a clock as an example, the 90° setting is at 9:00 o'clock, 180° at 12:00 o'clock, and so forth. If you turn the knob from the 180° position to the 135° position (halfway between 90° and 180°), you have moved the knob 45° counterclockwise.

### DESCRIPTION

This model contains a digital masking generator, low pass filter, 25 watt amplifier, volume control, and an equalizer control. The 70 Volt outputs consist of two phono plugs and one terminal strip.

### INSTALLATION

As with any power amplifier, this unit requires proper ventilation for safe use as well as its own long-term reliability. The DS1042 requires a free flow of cooling air on all sides as well as the top and bottom. Never place articles such as books, etc. on top of the unit or against its sides. Never operate the unit on a soft surface such as carpeting, etc. that may affect airflow on the bottom of the unit. Never operate the unit near a heat vent or other heat-generating devices. The power amplifier relies upon its ability to get cool air.

### CONNECTING & USING THE MASKING GENERATOR/AMPLIFIER:

1. Connect a 25 watt (or less) load to one terminal strip. 70 Volt output. The 70 Volt outputs consist of two phono plugs. When you connect any masking devices to the phono plug and/or terminal block, make sure that the load does not exceed 25 watts.
2. Turn all front panel controls to 0°.
3. Plug the DS1042 power cord into the outlet. Turn the Volume control (left control) clockwise until you hear the masking sound coming from the first masking device. (The setting will be at about 135° on the dial.) It should be set very low so you can just hear it. The purpose of this is to make sure that each masking device is operational.

### EQUALIZATION

Set the volume control on the DS1042 unit to 90° and the equalizer (low pass filter) control to 0° (off position). Check all speakers to make sure that they are connected and operating properly. Make sure that all ceiling panels that have been removed are put back in place if the installation includes plenum speakers.

### FOR NEW SPACES

For 9 foot high, 1/2" to 3/4" thick mineral fiber ceilings with ceiling plenums that are reflective (no spray-on or batt insulation), set the volume control indicator to the 85° position on the dial and the equalizer control to the 120° position. For 1" foil-backed glass fiber ceilings with conditions as above, set the volume control indicator at the 75° position on the dial and the equalizer control to the 165° position. If these design characteristics do not apply, contact Biamp for tuning assistance.

## LOUDNESS LEVEL

The system can now be subjectively fine tuned for effectiveness and comfort. If the sound masking level is too high, turn the volume control knob counterclockwise, in no more than fifteen minute increments, until the desired loudness level is achieved. If the sound masking level is too low, turn the volume control knob clockwise, in 10° increments, until the desired loudness level is achieved.

## EQUALIZATION IF ASSISTANCE IS REQUIRED

Contact info: mail: [support@biamp.com](mailto:support@biamp.com) or web: [support.biamp.com](http://support.biamp.com)

If a sound level meter is available, the following spectrums are recommended:

FREQUENCY	100	125	160	200	250	315	400	500	630	800	1000	1250
1/3 OCTAVE	47	46	45	44	43	42	41	40	39	37	35	34
ONE OCTAVE	51			48			45			40		

FREQUENCY	1600	2000	2500	3150	4000	5000	6300	8000	1000
1/3 OCTAVE	32	30	27	24	21	20	17	14	11
ONE OCTAVE	35			26			19		

## OCCUPIED SPACES

If masking sound is being added to an existing space that is currently in use, THE MASKING MUST BE INTRODUCED SLOWLY, so that it won't call attention to itself. Therefore, once the initial installation is complete, it will take weeks to bring the masking sound up to its recommended level for effective privacy. After tuning the masking as per the above procedure for unoccupied new space, record the final settings for both the volume and equalizer controls. Indicate on the bottom of the DS1042 unit, with a permanent marker, the recommended settings.

## INITIAL MASKING LEVEL SETTINGS FOR OCCUPIED SPACES

If you have a sound level meter, measure the existing ambient background in several areas and record the lowest reading. Then go to the DS1042 unit and set the volume so that the masking level is 2 dBA above the lowest ambient reading that was recorded. If you do not have a sound level meter, set the volume control on the DS1042 unit to the 60° position.

## RAISING THE INITIAL MASKING LEVEL SETTINGS IN OCCUPIED SPACES

After a continuous Monday-to-Friday cycle of non-interrupted masking at the initial setting, raise the masking level 2 dBA or about 10° on the volume control from the initial setting. This increase in level must be done on Friday at the end of the work day, after most of the employees have left the building. Continue this weekly increase until the most desirable setting as determined above is met. If there are objections about the masking level being too high, as the system is being raised to its final design, reduce the volume by 4 dBA (or 15°) on the volume control. Leave the masking level at this setting for two (2) weeks, and then begin to adjust the masking level higher again as per the above technique until the acceptable level is reached.

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