



Sonic Studios™

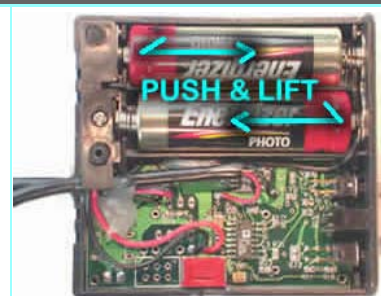
Beta-Production DSM™ PORTABLE STEREO MIC PREAMPLIFIER

OWNERS MANUAL

INSTRUCTIONS & TIPS: *NOTE: Images below for battery changing example only; is not latest preamp model; ALSO [DOWNLOAD](#) this page as Acrobat .pdf*



Select lowest preamp gain that allows -12dB to -4dB peak VU readings using #5 to full up #10 (50-75%) manual LINE level control range on the recording deck.



Set deck to LINE Input

Setting the GAIN switch:

Select **HIGHEST GAIN** setting NOT showing **RED CLIP LED** for best preamplifier sound quality.

Allow HEADROOM (overload avoiding margin) for loudest expected sounds

- +0 = lowest setting (+24 dB)
- 10 = medium (+34 dB)
- 20 = high (+44 dB)

To replace the batteries:

- **First, make sure preamplifier is OFF**
- **Place preamplifier on table surface facing right-side up.** Remove top screw with small Phillips screwdriver and set aside.
- **Rotate the preamplifier** so the front panel is opposite, and you now face the rear panel
- **With two hands**, gently press down cover at indented cover marking using **BOTH THUMBS** and slide top backwards a little until the two front (top) locking tabs are free of front panel slots
- **NOW Remove top** from bottom half section and set top aside.

- **Remove the two used cells using a fingertip** pushing each cell at positive end against minus terminal spring while lifting positive end up and free of positive terminal
- **Carefully dispose of used cells.** Check that inside of battery holder and replacement cells are clean, free of dust/ lint, oils/grease by wiping the battery terminals (ends) of the cells with a clean cloth before installing.
- **TIP: Give each cell a spin rotation** to securely seat the battery and electrical contacts.
- **USE Eveready Photo Lithium L91** cells for full performance 200+ hours operation run time. **IF necessary**, use **ONLY regular Alkaline AA** cells as **substitute** for about 50 hours operation

The LoCUT Filter Advisory

The DSM + PA-24NJ is a system with extraordinary (*extreme*) low frequency (*bass*) ability to < 1 cycle with LoCUT OFF.

Recording these extended low frequencies is very useful or a liability depending on subject, the ambient (*background*), and purpose (*end use*).

For example, recordings of acoustic instrument music, nature/urban ambient, and general effects recordings most often benefit with LoCUT OFF.

LoCUT ON is suggested for reducing low frequency noise (*background rumble from air conditioning/motor traffic*) in recordings of vocal narration, lecture, and interviews.

PA-24NJ MODEL Specifications *(Shared by all models)*

- **Mic Powering Input**
- **Single-ended Out**
- **XLR BAL Output**
- **-3 dBm Bandwidth**
- **Input Noise**
- **Distortion**
- **Battery/Time**
- **Low Battery**
- **Near Clip LED**

- DSM-1S/DSM-6S mics ONLY
- +2.2 dBm (~ 1V RMS) 600 ohms load
- +8.2 dBm (~ 2V RMS) 600 ohms load
- <1-to-140,000 cycles (*LoCut OFF*)
- <-96 dBm = 4µV (*un-weighted*)
- <.04% 10 - 50,000 cycles
- (2)AA L91 Energizer Lithium/200+ Hr.
- 2.7 Volts (*-1.35 Volts Per AA Cell*)
- -2.5 dBm Below Maximum Output

USING PA-24NJ WITH PORTABLE RECORDERS

Plug in PA-24NJ output plug secured to deck as shown in illustration at left



Secure MIC Cord On TCD-D100 & PCM-M1 Models

Preamp & output plug suggested configuration



(DAT Deck shown without suggested protective wallet)



Preamp D100/M1 DAT configuration with suggested protective check wallet case

AFTER USING SYSTEM FOR A FEW TIMES:

Clean 3.5mm type mic plug BEFORE inserting into PA-24NJ with supplied cleaning cloth, then rotate plug several times to secure good noiseless connection.

A single drop of pure +91% isopropyl alcohol ONLY on the metal part of the mic and preamplifier output plug just BEFORE inserting into the jacks will insure a clean noiseless connection



Suggest Preamp Securing Strap Positioned as shown



FOSTEX FR2 + PA-24XF MIC PREAMP



PA-24XP PREAMP + Microtrack 24/96 Deck



PA-24-U

UPGRADED mini-XLR MIC INPUT Dual Neutrik ProFI RCA output patch plug cord adapter

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DSM™ Patented Stereo-Surround Microphone Technology



Eye/gear/Headband/HRTF Baffle mountable matched omni mics



Stops wind blast noise; transparent acoustic design; records real wind sounds

4 Channel Surround DSM™ Microphone System Headworn or HRTF LiteGUY Baffle Mounted



Passive DSM™ Mic Powering/Bass Filters



for MD, DAT, CF, HD, and Video Field/Event/Studio Recording

Battery Powered-Portable Mic Preamplifiers

High-definition, low noise, very wide bandwidth preamp designs to fit any field/event/studio application using DSM™ stereo-surround mics.

HRTF RECORDING



Stereo-Surround Omni Mic Baffle for Stand, Fishpole, Studio Boom, and Ceiling



Patch/Adapter Cables

RECORDING ACCESSORIES



Field/Studio Monitoring

Portable Deck Power Solutions



MONO ONLY 'Lombardo' Lapel Mic for interview, Narration, Lecture, and clip-on acoustic instrument Recording



Headphones, Reviews

BD-8 Ruggedized Power Sled



DSM™ Magazine Reviews



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