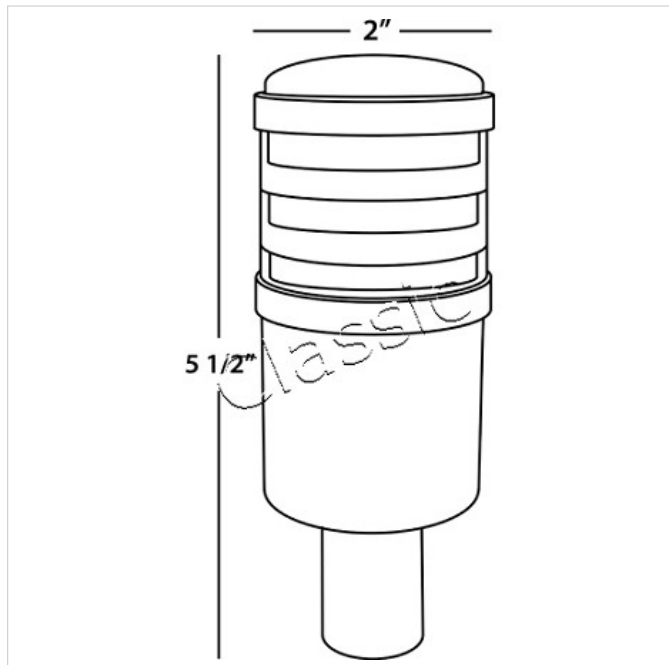


# HEIL SOUND PR-781

## PROFESSIONAL DYNAMIC MICROPHONE



We present the HEIL PR-781, a professional quality dynamic cardioid microphone for amateur radio that is specifically designed for use with most makes of Elite transceivers of Kenwood, Yaesu, Ten Tec and ICOM. This is a truly remarkable dynamic microphone. Heil engineers were requested by ICOM to develop a very special microphone package for their new iC 7800 radio. They didn't want just a microphone; they wanted a SUPER microphone for a super radio. The Heil PR 780 was born. The PR 781 is an improvement on the popular PR 780. The PR 781 is a beautiful performer into just about any microphone input, such as TS 870, 950, Pro 1, 2, 3, Yaesu Mv 5, MP, 2000 and 9000.

Using one of the dynamic elements from the Heil broadcast division, the PR 781 offers beautiful wide frequency response while keeping that traditional Heil Sound articulation of the speech pattern something ALL microphones seem to lack and that has been the mainstay of the Heil Sound line up.

### <u>Adapter cables

The CC-1 XLR adapter cables (connection between microphone and radio) are not included; these have to be ordered separately. To find out which CC-1 adapter will work with your radio please consult <u>HeilSound Adapter Selector.

### NOTE FROM HEIL

We sometimes get inquiries asking for an adapter cable for the PR 781 (or the PR20/30/35/40) to connect to a "small" HF transceiver like the Icom IC-706 or IC-7000, or the Yaesu FT-450/817/857/897. As you know, Heil does not make such cables, and there are several reasons why.

In the case of the IC-706/7000, you run up against the problem of Icom utilizing different available mic gain levels on SSB and FM (with FM being much lower). Using our dynamic mics, any of them, will not drive these Icom rigs to full deviation on FM. What's more, the threshold for tripping the VOX on SSB seems to vary widely, and sometimes a dynamic microphone won't engage the transmitter reliably when using VOX.

In the cases of the Yaesu FT-450/817/857/897, as well as the previously-mentioned Icom rigs, the very wide frequency response of the PR 781 tends to overwhelm the input stages of the rig, including the SSB modulator. The result is a very "flat" or "muddy" sounding signal. The problem is not the microphone, which (when properly applied) really sparkles; the problem is that you're injecting a 16,000 Hz voice signal into a radio without sophisticated filtering, and the (nominal) 2,500 Hz bandwidth used on SSB, being so much narrower, means that over 13 kHz of audio, amplified by the mic input amplifiers, is wasted.

Now some customers are quite insistent, and they demand that we provide them with a "solution" that will allow them to connect a PR 40 or PR 781 to one of these small rigs. Yes, a CC-1-XLR-I and HSTA-iM or HSTA-YM will

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make the electrical connections. But the result will just not be satisfactory. The customer's audio won't sound good. The VOX may not work.

Heil makes a number of excellent microphones for Icom rigs. . .the Handi Mic iC (via the CC-1-iM adapter cable) and the iCM (via the HSTA-iM adapter cable) will modulate an IC-706 or IC-7000 beautifully, and with full fidelity. A Handi Mic 5 or GM-5, via the CC-1-YM adapter cable, will sparkle on any of the small Yaesu rigs.

The PR 781 belongs in a broadcast studio; an IC-7000 does not!

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