

# HEIL SOUND PR-35

## PROFESSIONAL DYNAMIC MICROPHONE



The PR 35 has been designed for commercial broadcast, recording and live sound reinforcement applications which require a smooth flat response over a wide frequency range. The PR 35 was designed around the acclaimed PR 30 element and incorporates a sorbothane shock mount to give the best possible results.

The PR 35 achieves its exceptional performance by using a special magnet structure and a large aluminum 1 1/2" low mass voice coil assembly. A carefully wound and placed hum bucking coil allows the PR 35 to be used close to video monitors without unwanted hum or buzz. Special attention has been paid to the phasing plug assembly with equally placed ports that sense audio from behind the source. It then enters them out of phase thus producing a very linear cardioid pattern. This reduces the proximity effect while achieving the extreme articulation across its smooth 40 Hz- 18 kHz frequency response. The new Heil element can be used in extreme high sound pressure levels and is immune to overload conditions. It produces a beautifully smooth audio response without the inconvenience of phantom or outside d.c. powering.

The PR 35 is equipped with a three position roll off switch. The first position is flat, the second position rolls off at approximately -3 dB and the last position rolls off at approximately -6 dB.

The cardioid pattern offers the greatest rejection of unwanted audio at 180 degrees off axis, which is directly behind the microphone; there is virtually no off-axis coloration.

Supplied with a microphone clip that mounts to any 5/8"- 27 mic thread. It also comes with a leatherette carrying case.

For amateur radio a CC-1 XLR cable is required to interface with a transceiver.

### SPECIFICATIONS

- Polar Pattern Cardioid
- Frequency Response 40 Hz to 18 kHz (no filter)
- 80 Hz to 18 kHz (filter engaged)
- Output Impedance 370  $\Omega$ , balanced
- Off Axis Rejection @ 180°: -35 dB
- Output Level -52.9 dB @ 1 kHz
- Maximum SPL 140 dB
- Output Connector 3-pin XLR
- Weight 9 oz (255g)
- Packaging Info
- Package Weight 1.95 lb
- Box Dimensions (LxWxH) 10.3 x 6.9 x 3.7"

### 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

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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 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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