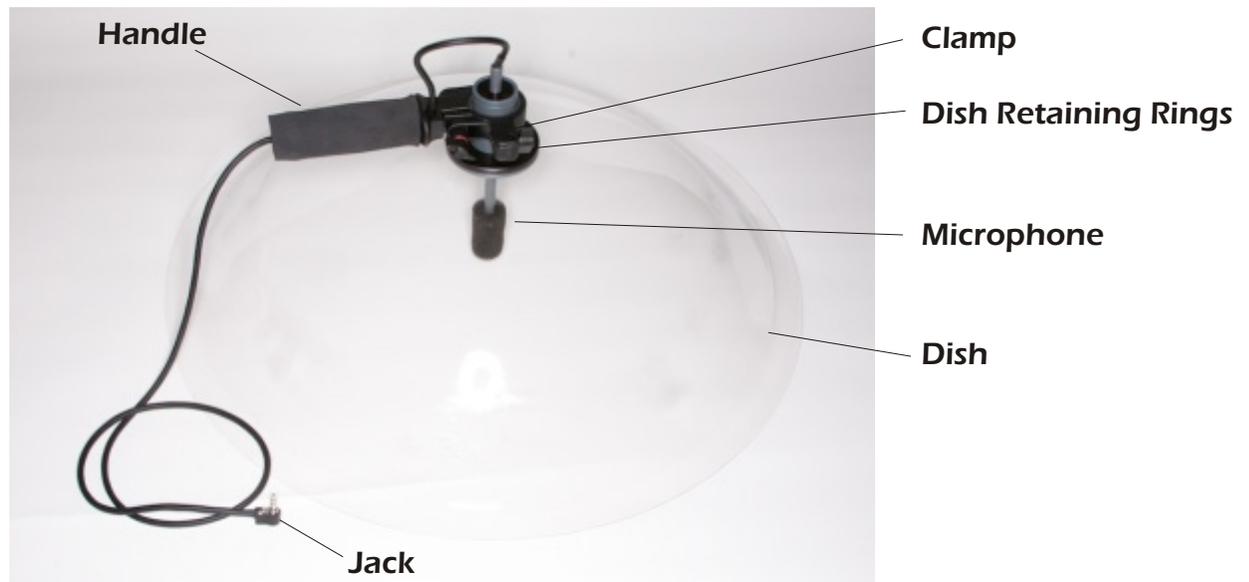


# Telinga Pro-4 PIP Microphone System



The Telinga Pro-4 PIP parabolic microphone system is designed to be used with consumer-grade digital recorders that supply “plug-in-power” to a microphone through the mic input jack. This includes most small solid state recorders made today.

## Assembly

Assemble your system by placing the black dish retaining ring on the threaded plastic tube on the handle - make sure the ring is positioned such that the curve of the dish matches the curve of the ring. Next place the clear polycarbonate dish on the threaded tube, with the opening away from the handle. Now place the grey retainer ring on the threaded tube, such that the curved part matches the curve of the dish, and thread it onto the tube, tightening it hand-tight.

Now insert the mic through the back of the threaded tube and tighten the clamp on the handle that holds the mic in place.

That’s all there is to it!

The only adjustment that can be made on this system is to position the microphone near the sonic focus of the dish. This is best accomplished by placing a “white noise” source, such as a small radio tuned off-station, at a distance of about 100 feet, pointing the dish at the source and listening for the strongest signal as you slowly slide the mic forward and backward in the dish. The best “focus” is when the sound source is the loudest. Just tighten the adjusting clamp when you have the mic where you want it, and mark or remember where that “sweet spot” is so you can re-assemble the mic more easily in the future.

## Dish Care and Cleaning

**It’s best to leave the dish unrolled except while transporting it.** Leaving it rolled for long periods (weeks at a time) can extend the time needed for the dish to regain its form. In some extreme cases, the dish may have to be forced back into shape by placing tape across the front while holding the dish in the correct shape.

You can clean the dish by wiping it with a damp cloth, or occasionally by cleaning and polishing it with plastic cleaners and polishes, such as Meguire’s. Scratches on the surface of the dish do not affect its performance.

If you get insect repellents containing DEET on the dish, it will cause fogging of the surface. These can be polished out as above, and will not harm performance.

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## Using your Telinga Pro-4 PIP

The 1/8" "mini jack" at the end of the cable leading from the handle will match the mic input of most consumer-grade recorders. Simply insert the jack into the "Mic" or "Mic In" port on the recorder and you're ready to go. It's best to try to limit the movement of the jack in the recorder, as some inexpensive recorders can be damaged if the jack is twisted around a lot while you're using it. This is true of any microphone connection, and is not specific to Telinga jacks.

Point the mic toward your subject while monitoring the sound levels through your headphones. The best recordings are usually obtained by the loudest signal, but not always. You will get the hang of pointing the dish where it sounds best to you very quickly. The dish is clear for a good reason - you can see the subject through the dish as you point it. This also helps you locate subjects that you can hear, but cannot see. Just point the dish in the direction of the sound and slowly move it up and down, then side-to-side until the sound is the loudest. When it is, the dish and mic will be pointed directly at the invisible subject.

If your recorder has a level meter, it's best to set the sound levels such that peak sounds just reach 0 dB. Recording at very high levels can result in digital "clipping", which will destroy the louder sounds and lose those data.

Handle the mic firmly and slowly to avoid "handling noise," caused by your hand on the mic handle - you will soon learn to hold the mic very still while recording to avoid the possibility of intrusive handling sounds. Telinga also supplies an optional tripod adapter that will hold the mic and dish on a standard photographic tripod for times when the dish will be situated at the same position for lengthy periods, or when any handling noise is unacceptable.

The sound of wind hitting the mic directly may be unacceptable in some situations. Generally it's best to position yourself so that the wind doesn't blow directly into or across the dish. Telinga has an excellent optional windscreen that fits over the front of the dish for times when the wind is too high or you cannot reposition yourself.

The best way to learn to use your new mic is just to get out there and use it. The more you use it, the better your recordings will be!

If you have any questions or need technical support, please e-mail me at the address below.

Enjoy!

Doug Von Gausig

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