



Setup of an IRT-cross

An IRT-cross consists of four cardioid microphones arranged in a square. The microphones are angled 90 degrees from one another and spaced 20 to 25 cm apart. Or even 31 cm apart from each other, when you will use wide-cardioids, but these are not very common in the „not-yet-pro“ area.

As a rule of thumb, remember this: The more focused the microphone pattern, the closer the microphones can be brought together. - But, as always, trust your ears more than your ruler!

Before you will start, make sure you have everything on hand. You may want to check the required parts with the shopping list we provide.



It all starts with a regular microstand or your camera tripod.



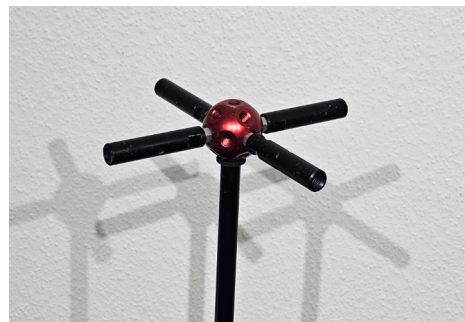
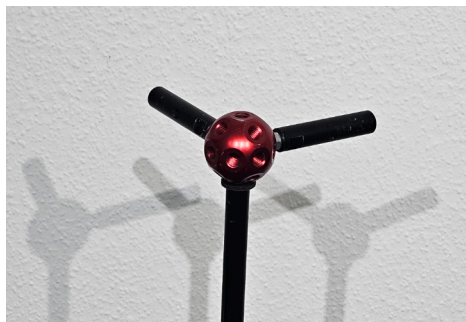
Then we screw the red ball on top of it.

Now comes the fun part. The four pipes will be screwed into the red ball.

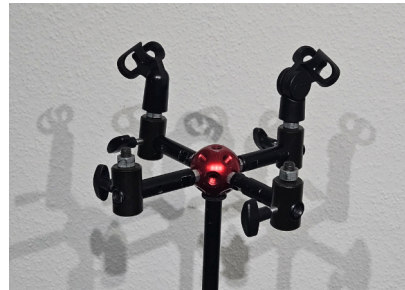
Alright!

Now we take the pipe-to-microphone adapters and mount each on a pipe.

As we will need some space in between, we mount them at the end of the pipe.

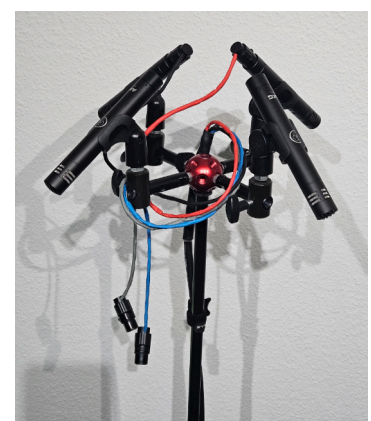


Don't fasten them to tight now, as we might need to adjust their positions. Now we will screw the microphone clamps on top of them.



As you can see on these pictures, the microphone clamps are bowed down a little bit.

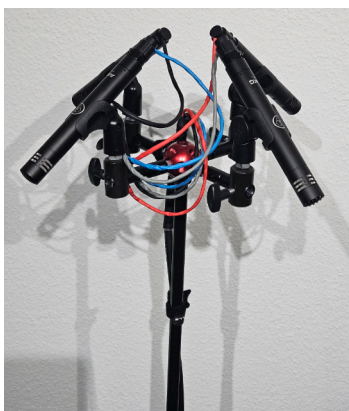
This is for convenience purposes, as it will be easier to mount the microphones.



We use a 4-channel multicore cable for convenience. It works perfectly with four regular XLR cables as well.

BUT ... you should either have short XLR connectors, or short microphones (like the Lewitt LCT 040) or both.

You may also use thread adapters to get two microphones higher than the other ones. It's up to you and your gear.



We always fasten the cable to the stand, so the full weight of the cable is not pulling the microphones down.

The colored cables should hang loose, but to loose. They might swing if there is some wind while you are recording.

Here you are!

Now adjust the microphones to the same level and measure the distance between them.

If you use cardioid microphones, then the distance should be 25 cm.

The recording direction is the direction you look at the system on the picture. Have fun and make amazing recordings.

