

Shopping list for a “Theile Trapezoid”

This shopping list is intended to give you some guidance. It is NOT the only way to setup such a system. It is just one way to do it and we know, that this will work.

Hardware:

- One sets of Manfrotto MSY0580A Dado Kit 6 Tubes
 - as part of that four 8 cm long rods.
- One cube with a 3/8” thread on each side. (e.g. Roadworx Thread Cube)
- One male/male 3/8” thread adapters (e.g. Roadworx Thread Adapter 4)
- Four SDC cardioid microphones (incl. clamps)
- Two K&M 20002 26 cm rods
- Three K&M 20004 50 cm rod
- Four XLR microphone cables. At least 10 m resp. 33 feet long. The longer, the better!
- If you like it more compact, you may want to check out: Two RJ45 DMX Shuttle Snake FX4 /MX 4 set consisting of XLR connectors on the one side of the box and a RJ45 connector on the other side.
- Then you will need two CAT6E Cable 10+ m with RJ45 connectors in a XLR connector. This is NOT necessary, but more reliable in the field and if you might step onto it by accident. The cables should be CAT 6E, as it has leads with a bigger diameter, which have less resistances and so they are effecting the sound even less.
- A pair of needle-nose pliers, a pair of combination pliers and a tape measure (3m is enough)
- **Wind protection for your microphones.** It won't be the first and never be the last recording ruined by the wind. You may be satisfied with the wind protectors that usually come with your microphones, but if you are outside, you should consider more robust and effective ones. We learned that wind protection can never be good enough. Of course, there are units that meet the highest professional standards, but they cost a lot, too. It's up to you to find the best compromise that meets your needs.

Handheld Recorder

Please note, that we have eight microphones. So we need a recorder with at least eight XLR-inputs.

Such recorders could be:

- One TASCAM Portacapture X8 (with bluetooth adapter for synchronization)
- Zoom F8n, F8n Pro
- SoundDevices MixPre-6 II, MixPre-10 II, 888, 833, Scorpio
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Important!

You should also have enough batteries with you and make sure they are freshly charged, before you leave the house. As there are so many vendors out there for this, it's impossible to recommend something. The more „mAh“ the batteries has, the longer it will serve you.

We highly recommend, that you setup everything at home and tear it down and set it up again, to learn how to do it and gain some practice. We are very sure you will find your way and an even better way how to do it. Then we would be happy to learn from your experiences.

Shopping list:

# items	Item	Price per unit	Subtotal
4	SDC microphone, cardioid incl. clamps		
1	Manfrotto MSY0580A Dado Kit 6 Tubes		
4	Manfrotto Rapid Adapter 014-38		
1	Roadworkx Thread Cubes		
4	Wind protection units for the microphones		
4	XLR microphone cable, at least 10 m long		
1	Male/male 3/8" thread adapter (e.g Roadworx Thread Adapter 4		
2	K&M 20002 26 cm rods		
3	K&M 20004 50 cm rod		
4	Manfrotto 8 cm rods		
2	ULANZI MT-49 Carbon Fiber Lamp Stand		
1	Set of needle-nose and combination pliers, tape measure		
1	RJ45 DMX Shuttle Snake FX4 (XLR female)		
1	RJ45 DMX Shuttle Snake MX4 (XLR male)		
1	Cat 6e cable (at least 5m / 15 feet long)		
1	Handheld recorder with at least 4 XLR mic inputs		
		TOTAL	

Something to mention: If you already have any of the above items, you won't need to buy them again just for this setup! This only applies if you need two or more setups at the same time. Maybe a friendly colleague can lend you the items you need.

It's possible that your local store doesn't have these items in stock or can order them for you.

The wind protections shown in the tutorial aren't the best solution. We are working on a better one, but it's not ready yet. We will update this shopping list and the tutorial as soon as we are done!