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SC 20ST
Small Condensers
Matched Stereo Pair

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Congratulations with the SC 20ST matched stereo pair of small condenser microphones!

In spite of its low cost, this stereo pair is ideal for use in many live or studio situations. The wide frequency response and the high SPL capability makes them perfect for use as; overheads for drums, on hi-hats, for miking choirs, as room ambience mics and for miking electric and acoustic stringed instruments. The microphones have external switches for Pad and High Pass Filter.

Using the SC 20ST

The SC 20ST can be used with any standard preamp or mixer. Use either a XLR to XLR or XLR to 6,3 mm TRS jack standard balanced microphone cable. Please note that the microphones need 48V phantom power and for optimum performance, let them warm up for a few minutes before use. The SC 20ST can be used in different stereo configurations using the supplied stereo bar.

One technique is the **ORTF** system (Office de Radiodiffusion-Television Francaise).

The **ORTF** system is formed by spacing two cardioid microphones so that their diaphragms (capsules) are 17 cm apart and with an angle of 110 degrees between the forward facing patterns. This spacing and angle is similar to the way our ears are positioned on our head and simulate our listening experience. The overall angle of pickup for the **ORTF** is 180 degrees with a minus 3 db loss at the center.

Another stereo configuration is the **NOS** system (Nederlandsche Omroep Stichting). This system uses two cardioid microphones at an angle of 90 degrees with a spacing of 30 cm between the diaphragms (capsules). This adds even more of an apparent openness to the sound and the overall angle of coverage for the **NOS** system is 160 degrees, and it therefore is very useful with smaller ensembles.

Notice that the further apart you move the microphones, the smaller the angle between them becomes in order to maintain the overlap at minus 3 db at the center of the stereofield, and the narrower the overall angle of coverage becomes. As we reach a distance of 120 – 150 cm a “hole in the middle” will appear.

X-Y is a technique where you put the two diaphragms (capsules) close to each other with an angle of 45 degrees off center for both microphones. This technique is often used along with flanking microphones because of its narrow stereo image.

And of course you can use the microphones separately, on hi-hats, shakers, bells, acoustic guitars and stringed instruments of all kinds.

Precautions

Always use a pop-filter for close up vocals to protect the capsule from mouth spray. Avoid to expose the microphones to direct sunlight or extreme humidity for long periods of time. Handle the microphones with care and don't drop them or subject them to shock, as this can damage the electronics or the capsule. Always store the microphones in the case when not in use and never try to service them yourself, since this will void the warranty.

Warranty

Aktiv Audio warrants the product to be free in normal use of any defects in workmanship and materials for two years from the date of purchase. This warranty does not cover abuse or misuse of the product, use contrary to the instruction, accident, ordinary wear and tear or unauthorized repair.

Should it ever need service, please contact your dealer.

Specifications

- 22 mm 5 micron goldplated capsule
- Polar pattern: Cardioid
- Frequency range: 30 Hz – 20 kHz
- Sensitivity: - 40 db
- Self noise (EIN): 22 db (A weighted)
- S/N ratio: 76 db
- Max. SPL: 130 db / 140 db (pad engaged)
- High Pass Filter: 100 Hz / 6 db octave
- Pad: - 10 db
- Output impedance: 250 Ohm
- Net weight: 135 g
- Body dimensions: Ø 23 mm x 152 mm
- Power requirement: 48V phantom power

The SC 20 ST is a pair of high performance FET condenser microphones. These compact and durable microphones have Class-A electronics and a transformerless design and they have been stereo matched within 1 db. An uniform cardioid pattern controls feedback and makes them a good choice for both studio and live use.



Included accessories

- 2 pcs plastic shockmount
- 3 pcs thread (3/8" to 5/8")
- Metal stereo bar
- User manual
- Plastic carrying case



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