

ORTF Surround – the new standard for Surround ambience



ORTF Surround Set:

ORTF Surround for Surround Ambience Recording

- “Plug and Play” solution for Surround Ambience
- optimal imaging characteristics like those of the “IRT Cross”: very good 360° imaging with a pleasant, natural-sounding spatial impression
- uses four supercardioids SCHOEPS CCM 41 L
- available as a complete system with and without windscreen (“ORTF Surround Set”)
- applications: Sporting events, film sound, concert recording etc.
- already a default setup at large sports events.

The “ORTF Surround” recording method is a new system for the pickup of surround ambience. This microphone arrangement and its sonic characteristics are quite similar to those of the well-known “IRT Cross” designed by Günther Theile. Both the 360° imaging and the spatial impression are of optimal quality.

The ORTF Surround arrangement has been designed so that the entire arrangement can be conveniently mounted in a single elastic suspension, and optionally share a single windscreen. It differs from the IRT Cross arrangement by being rectangular rather than square. Its pickup regions are correctly apportioned through careful choice of the angles and distances among the microphones.



ORTF Surround – the new standard for Surround ambience

ORTF Surround Set

The ORTF Surround Set offers a “Plug and Play” solution for surround ambience. It comprises:

- four CCM 41 L compact microphones
- a four-way “ORTF Surround Bar” terminated with a multi-pin connector
- an elastic suspension (Rycote INV-7)
- a 5-meter, six-way Surround multi-core cable with two multi-pin connectors
- the splitterbox M6U for adapting the multi-pin connector to 6 × XLR-3M



ORTF Surround Bar LM



6-channel multi-core extension cable KSURROUND 5M

If a moderate degree of wind protection should be required, a Schoeps B 5 D foam windscreen can be placed over each microphone separately.

The six-way Surround multi-core cable is available at any length and optionally can be delivered wound on a stable cable drum.

ORTF Surround for outdoor use

When used outdoors, the ORTF Surround bar can be mounted in a single windscreen. The windscreen is made of a special, newly-designed fabric that offers improved sonic transparency. A “Windjammer” (fur-like covering) for additional wind protection is available. This setup is already a default setup at large sports events.



ORTF Surround windscreen

Weight:

setup with elastic suspension only: 410g

setup with windscreen: 870g

setup with windscreen and windjammer: 1100g

Dimensions of the windscreen (mm): 380 × 360 × 110

Dimensions (inches): 150 × 102 × 43

The ORTF Surround geometry

The ORTF Surround setup was chosen in order to offer adequate 360° imaging and optimal spatial impression. 100mm / 100°

Smooth surround imaging is based both on arrival-time differences and level differences. The distances and angles are chosen such that each of the four stereo pairs provides a 90° recording angle adding up to a smooth 360° imaging.

An optimal spatial impression is achieved by the high degree of signal separation among channels down to low frequencies.

