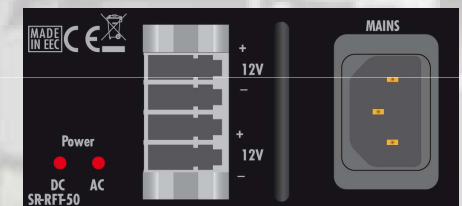
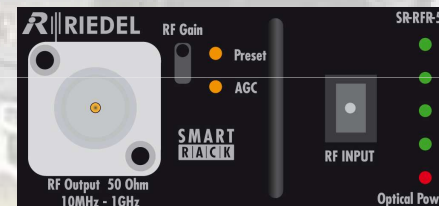
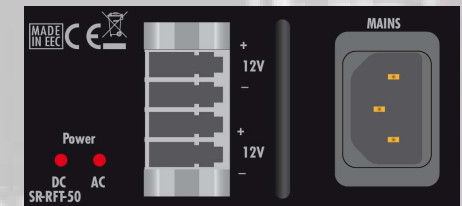
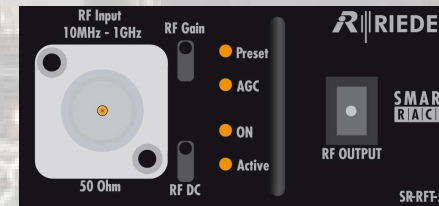




Application Examples – RF over Fiber

RF over Fibre Smart Rack Modules

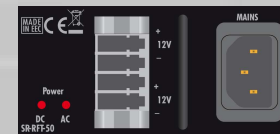
- Fiber optic transmitter / receiver for RF signals
- RF frequency range 10 Mhz – 1 Ghz
- Smart Rack SR11 Format
- 75 Ω BNC / 50 Ω N
- Internal PSU + Ext. 12V DC In
- Normal Gain and Automatic Gain Compensation
- Switchable antenna feed up to 300mA
- Optical input power meter via LEDs
- WDM wavelengths 1310 / 1490 / 1550 nm



RF over Fibre Smart Rack Modules

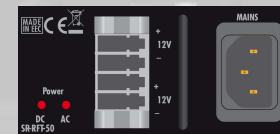
50 Ohm Transmitters

SR-RFT-501310
SR-RFT-501490
SR-RFT-501550



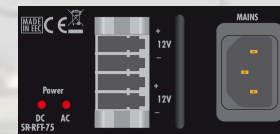
50 Ohm Receiver

SR-RFR-50



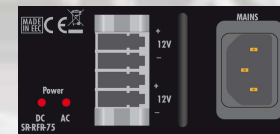
75 Ohm Transmitters

SR-RFT-751310
SR-RFT-751490
SR-RFT-751550



75 Ohm Receiver

SR-RFR-75

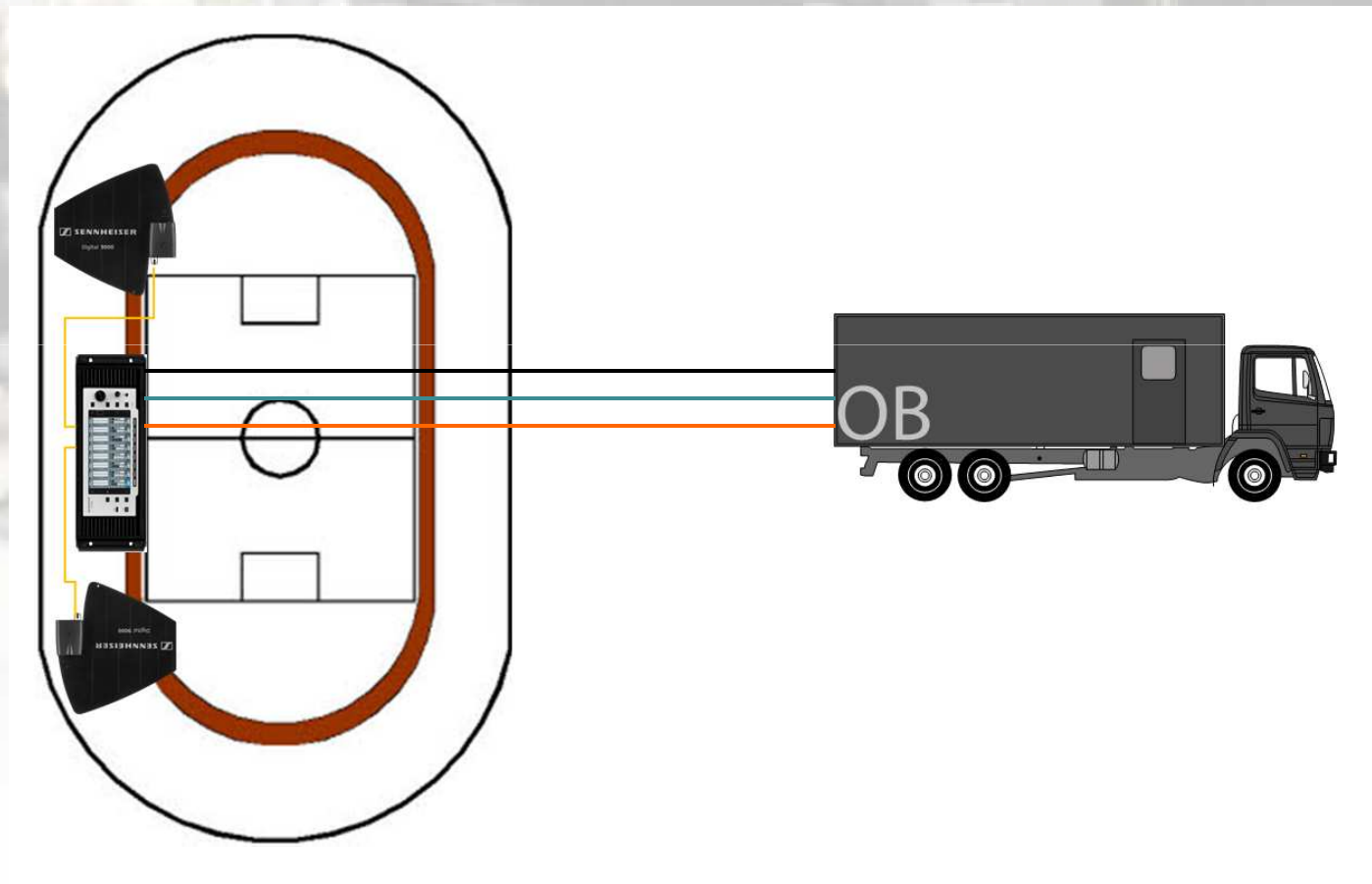


- Receivers are always wide-band with regard to optical wavelengths
- Optical connector is SC/APC, cable SC/APC to LC is included

Content

- About Riedel RF over fiber
- Applications
 - Wireless microphone
 - Outside broadcast
 - Studio Complex
 - In Ear Monitoring
 - Wireless video

Wireless microphone applications in outside broadcast

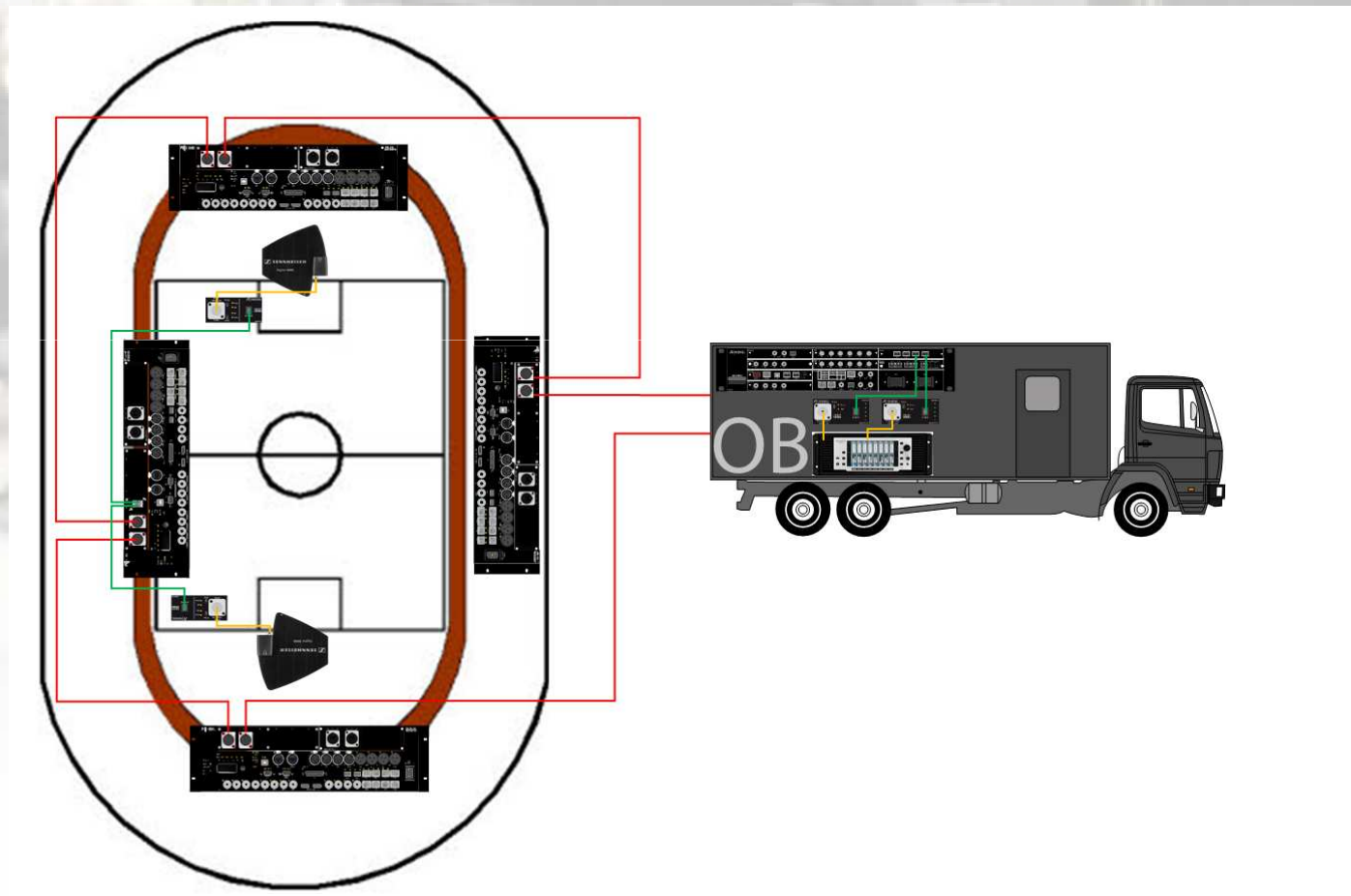


- RF cables have significant length limitations because of damping

Typically: Max. 20-50m

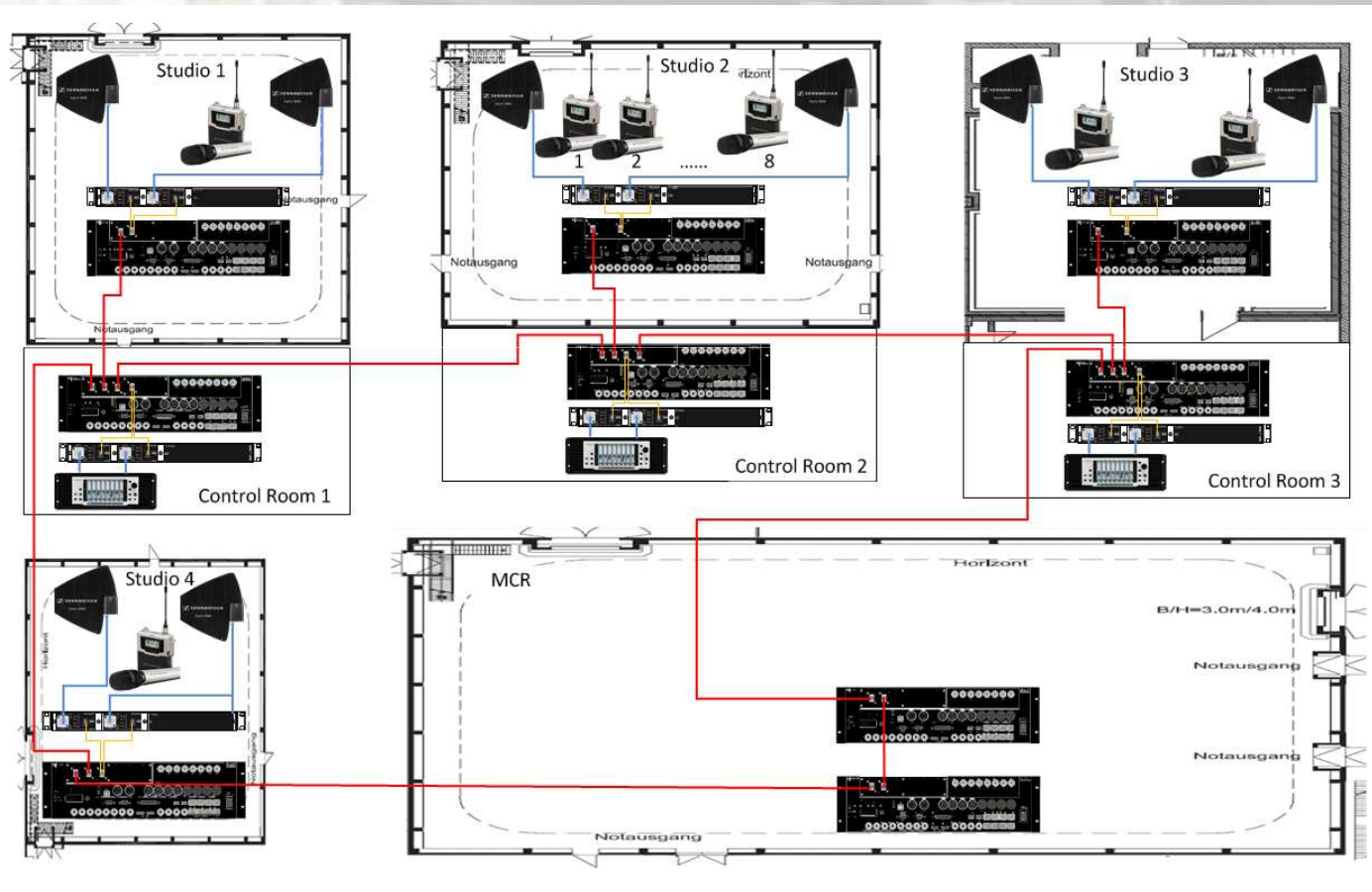
- Status information of the receiver are needed in the OB van
- 3 Cables required
 - Power
 - Audio
 - Control

Wireless microphones over fiber application in outside broadcast



- Antennas can be integrated into MediorNet backbone
- No length limitations
- No electromagnetic or radio-frequency interference
- Microphone receivers can be installed in OB van
 - Security
 - Maintenance
 - Control
- Antennas are powered over RF over fiber modules

Wireless Microphones over Fiber in studio complex

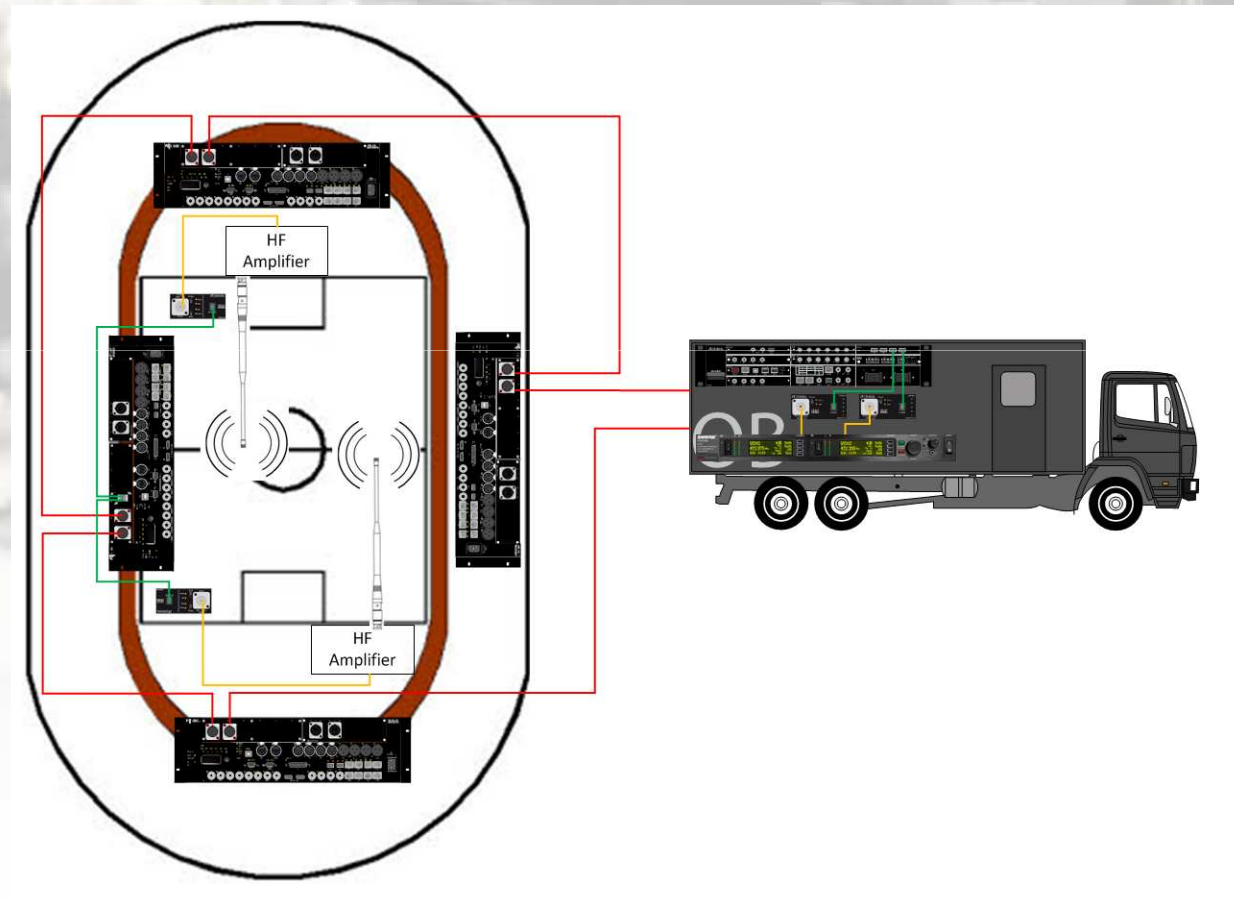


- Antennas can be connected over MediorNet Compact stageboxes
- Studios without own control room can be linked with control rooms from other studios

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In Ear Monitoring over Fiber

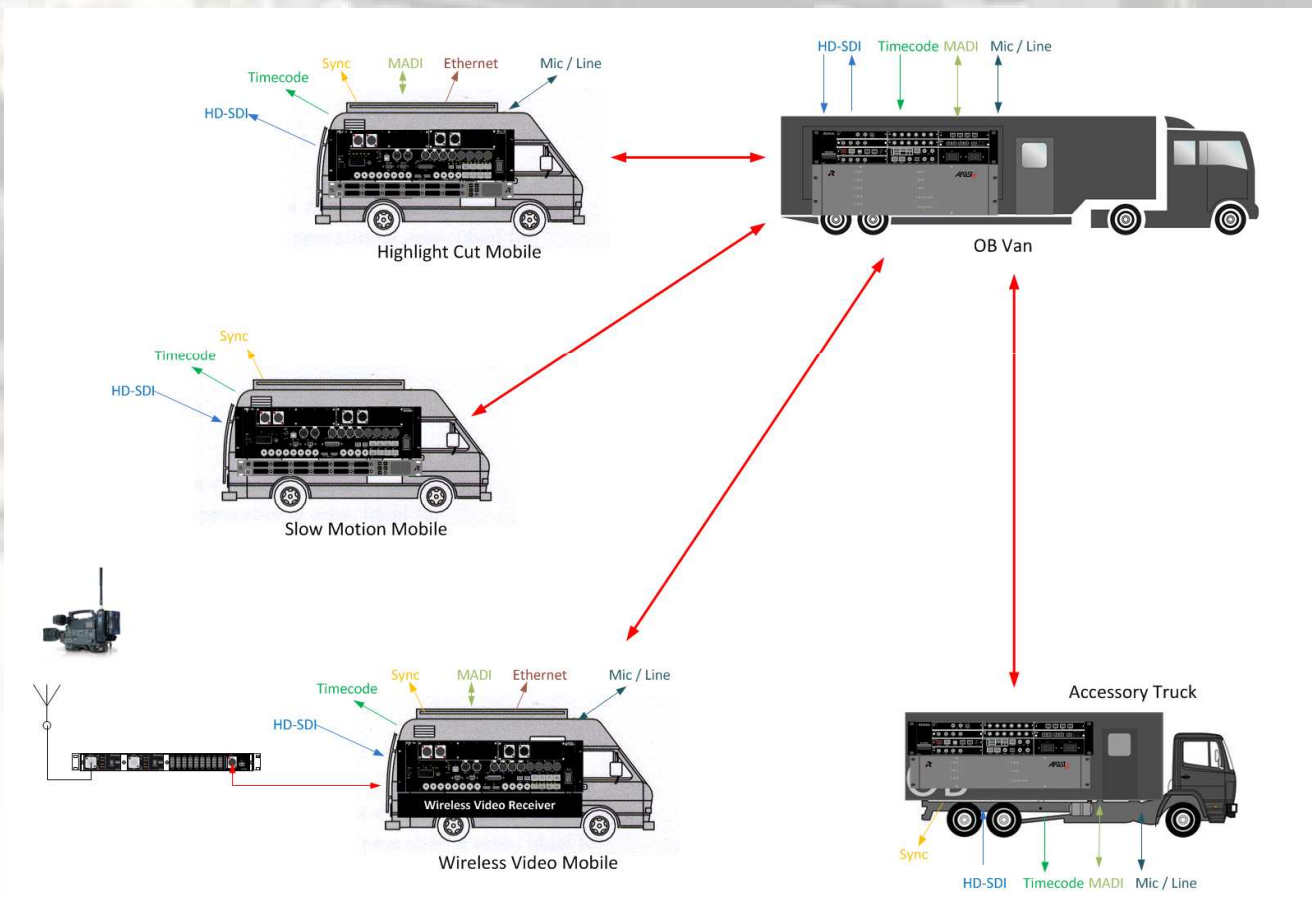


- In Ear transmitter can be installed in the OB Van
- HF Amplifier is required

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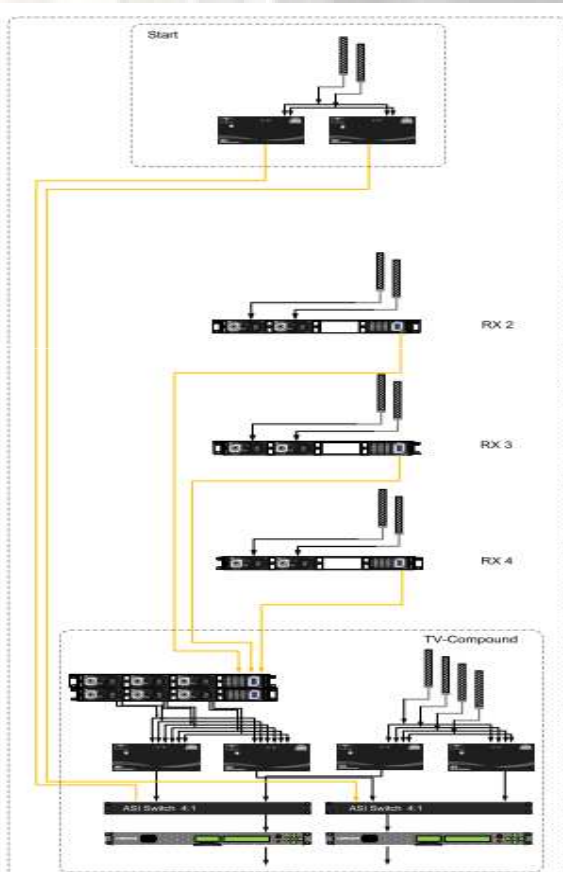
Wireless video over fiber application



- Small OB vans for special applications, e.g. Wireless Video
- Receiver can remain in OB van
- MediorNet offers easy networking for OB vans

Wireless video over fiber reference: Schladming Ski World Championship

- Antennas for Riedel RiCam were connected to TV compound over RF over fiber





Thank you.

For more information please visit www.riedel.net