

R&S®UPP Audio Analyzer



Multichannel and cost-efficient, for use in the lab and in production

The compact cost-efficient R&S®UPP audio analyzer is designed for system applications. It features low height and comes without front panel control elements or integrated display.

Key facts

- ▮ Suitable for all interfaces: analog, digital and combined
- ▮ HDMI device testing
- ▮ Parallel measurements on up to eight channels
- ▮ Up to 80 kHz bandwidth and 200 kHz sampling rate
- ▮ User-programmable filters for analyzer and generator
- ▮ Compact instrument with integrated PC and low height

Models/options		
Designation	Type	Order No.
Audio Analyzer, Two Channels	R&S®UPP200	1411.1003.02
Audio Analyzer, Four Channels	R&S®UPP400	1411.1003.04
Audio Analyzer, Eight Channels	R&S®UPP800	1411.1003.08
Hardware options		
Digital Audio I/O	R&S®UPP-B2	1411.2300.02
HDMI and digital audio interfaces	R&S®UPP-B4	1411.2500.02
Software options		
Digital Audio Protocol for R&S®UPP-B2	R&S®UPP-K21	1411.0807.02
Dolby Datastream Decoding for R&S®UPP-B4	R&S®UPP-K41	1411.0813.02

Models/options		
Designation	Type	Order No.
Extended Audio/Video Measurements for R&S®UPP-B4	R&S®UPP-K45	1411.0859.02
1/n Octave Analysis for R&S®UPP	R&S®UPP-K601	1411.0765.02
Cascading Software for R&S®UPP800	R&S®UPP-K800	1411.0759.02
System components		
XLR/BNC Adapter Set, male	R&S®UP-Z1M	1411.3358.02
XLR/BNC Adapter Set, male/female	R&S®UP-Z1MF	1411.3306.02
AES/EBU Cable for R&S®UPP-B2	R&S®UP-Z2	1411.3406.02
I ² S Cable for R&S®UPP-B2/R&S®UPV-B41	R&S®UP-Z3	1411.3458.02
Eight-channel I ² S Cable for R&S®UPP-B4	R&S®UP-Z4	1411.3258.02

Application	How the R&S®UPP meets your needs
General-purpose audio analysis	<ul style="list-style-type: none"> ▮ Generation of a wide variety of analog and – optionally – digital test signals ▮ Broad scope of measurements on both analog and – optionally – digital interfaces ▮ Powerful and even multichannel FFT analysis ▮ User-programmable filters that can be adapted in seconds to the individual measurement task ▮ Integrated control PC; manual operation requires only an external monitor and a mouse and keyboard
Use in production	<ul style="list-style-type: none"> ▮ Parallel measurements for high throughput ▮ High measurement speed throughout the system ▮ Easy, efficient creation of remote control routines using the SCPI recording function
Measurements on multichannel devices	<ul style="list-style-type: none"> ▮ Three models: R&S®UPP200/R&S®UPP400/R&S®UPP800 with 2/4/8 analog analyzer channels ▮ Instruments can be cascaded to up to 48 measurement channels ▮ Parallel measurements on all channels save time
HDMI™ applications	<ul style="list-style-type: none"> ▮ Full-fledged audio analyzer with HDMI™ function ▮ Generation and analysis of audio, video and data signals ▮ Display of audio and video InfoFrames ▮ Support of HDMI™ standard 1.4b, including audio return channel and HDMI™ Ethernet
Measurements on mixed interfaces	<ul style="list-style-type: none"> ▮ 2/4/8 analog analyzer channels in one box ▮ AES/EBU and D/P DIF interfaces for measuring digital audio components ▮ Digital protocol analysis and generation ▮ I²S interfaces for testing audio ICs ▮ HDMI™ device testing ▮ Interfaces for the generator and analyzer can be set independently of one another and used together in any combination