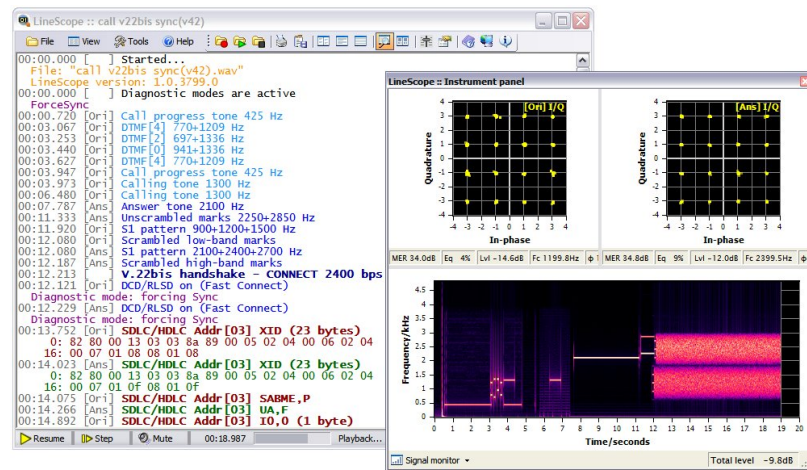


3am LineScope

Call progress, modem handshake and data analyzer for V.22bis dial-up systems



"Get the insight you need, instantly."

LineScope enables non-intrusive monitoring of synchronous and asynchronous V.22bis communications over a telephone line. It is ideal for embedded modem integrators and dial-up application developers, for troubleshooting new deployments of terminals, modems and transaction gateways. With support for Fast-Connect, SDLC/HDLC and ISO-8583 financial message decoding, LineScope takes the modem line tap approach to a whole new level, providing unique insight into physical layer issues, with tone event logging, constellation displays, eye diagrams and raw bitstream views.



- ✔ Advantages
 - Compact
 - Easy to use
 - Non-intrusive
- ✔ Instrumentation
 - Plots/readouts
- ✔ Protocol analyzer
 - V.22/V.22bis
 - Async/sync
 - ISO-8583

A helpful tool for many sectors...

- | | |
|---|---|
| <ul style="list-style-type: none"> § Payment application developers § POS terminal manufacturers § Dial-up modem integrators § Financial institutions § Certification entities | <ul style="list-style-type: none"> § Gateway ASIC/FPGA/firmware test § Remote control and diagnostics § Embedded modem applications § Intruder alarm systems § Production line testing |
|---|---|



Please visit our website
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 for more information.

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As easy as "audio in - data out"...

- § Easy and non-intrusive phone line monitoring using your notebook's soundcard.
- § Responsive online support by our technical specialists.

Troubleshoot handshakes...

- § Automatic detection of FastConnect, async/sync and V.22/V.22bis, with detailed reporting.
- § Inspect tone events such as DTMF, call progress and handshake signals.
- § Use special diagnostic modes to aid troubleshooting.

Async/SDLC/HDLC trace...

- § Obtain hex dumps of link layer exchanges.
- § Detect retrain and break patterns.
- § View raw bitstream.

ISO-8583 trace...

- § View annotated contents of financial messages.
- § Create different configurations from starter templates.

View constellations...

- § Visually check symbol constellation for impairments such as low SNR, gain compression and phase noise.
- § Channel estimates for modulation error ratio, equalizer stress, and carrier level, frequency and jitter.

Check tones...

- § Get accurate dB/Hz estimates for call progress and handshake tones.
- § Built-in spectrum analyzer with peak finder.

More instrumentation...

- § Channel gain, symbol timing error, carrier offset and phase error plots.
- § Demodulator modulus/eye monitor.
- § Equalizer coefficients.
- § Spectrum analyzer, spectrogram and waveform envelope.

