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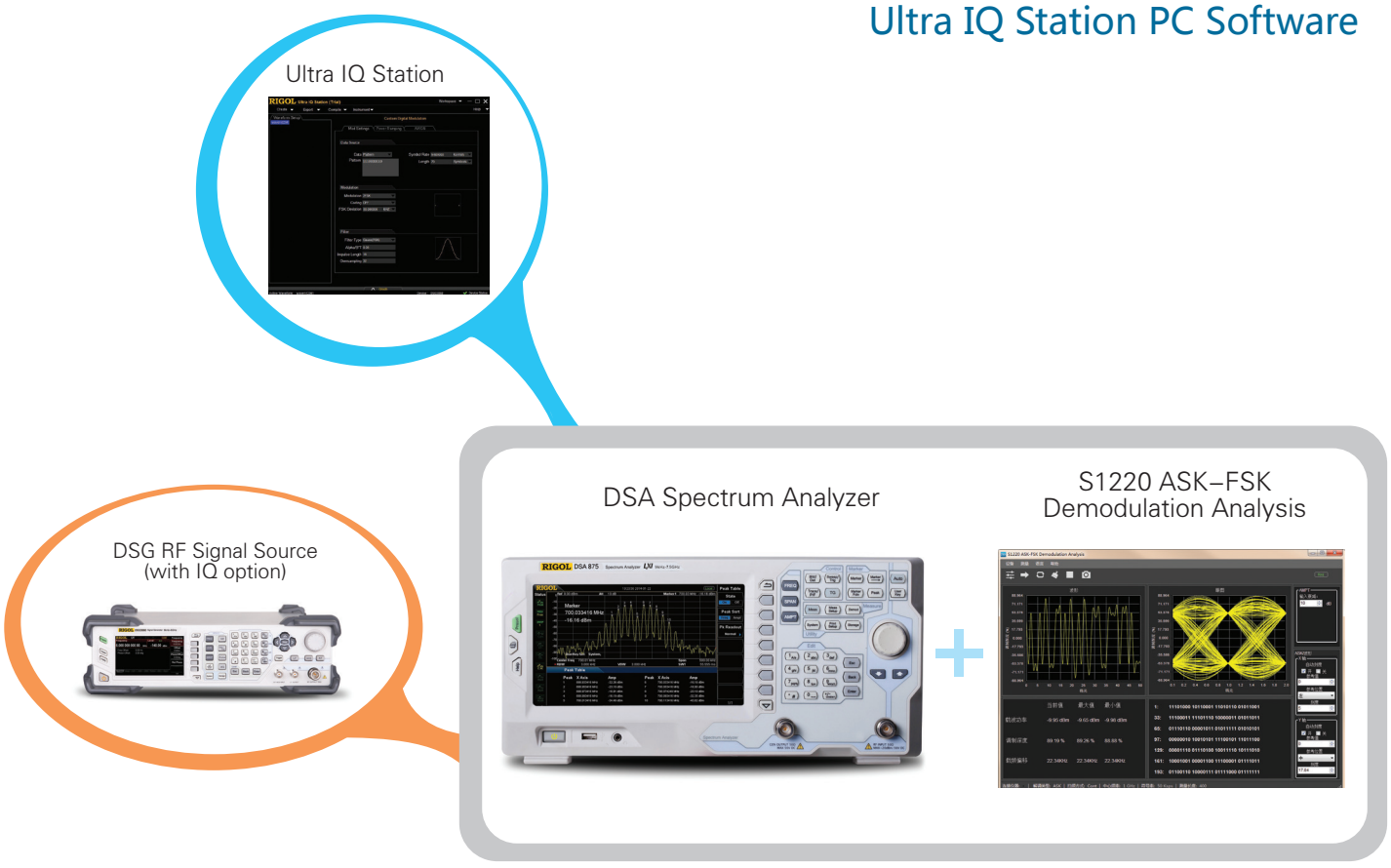
Innovation or nothing

# S1220 ASK-FSK Demodulation Analysis Data Sheet

S1220 ASK-FSK Demodulation Analysis
DSA Series Spectrum Analyzer
DSG Series RF Signal Source
Ultra IQ Station PC Software



# Product Overview

S1220 ASK-FSK Demodulation Analysis is used to work with **RIGOL** DSA875/TG, DSA832/TG, and DSA832E/TG spectrum analyzer to realize demodulation and analysis for the modulated ASK and FSK signals.

# Product Features

- Highlight the reference symbols
- Support Manchester Encoding
- Display the waveform, eye diagram, symbol, and demodulation results in one interface
- Set the reference position of the waveform and eye diagram as required
- Provide single/continuous sweep modes, enabling you to observe the demodulation results at any time point
- Load the saved configuration data and improve efficiency
- Provide demos for you to enjoy great user experience with the software, without connecting the instrument or obtaining a license

## ▶ Specifications

| | |
|---|---|
| **ASK/FSK Demodulation Analysis** | |
| Frequency range | 5 MHz to 3.2 GHz/7.5 GHz |
| Carrier power accuracy | ±2 dB, nominal value |
| Carrier power range | -30 dBm to +20 dBm, nominal value |
| Carrier power display resolution | 0.01 dBm |
| **ASK Measurement** | |
| Symbol rate range | 1 kHz to 100 kHz |
| Demodulation depth | 5% to 95% |
| Accuracy | ±4% of the reading value, nominal value |
| Display resolution | 0.1% |
| **FSK Measurement** | |
| FSK deviation | 1 kHz to 400 kHz |
| Symbol rate range | 1 kHz to 12 kHz 1≤β≤32, β is the radio of frequency deviation to symbol rate (deviation/rate)<br>12 kHz to 25 kHz 1≤β≤16<br>25 kHz to 50 kHz 1≤β≤8<br>50 kHz to 100 kHz 1≤β≤4 |
| Accuracy | ±4% of the reading value, nominal value |
| Display resolution | 0.01 Hz |

## ▶ Ordering Information

| | Description | Order Number |
|---|---|---|
| | S1220 ASK-FSK demodulation analysis | S1220 ASK-FSK Demodulation Analysis |
| Model | spectrum analyzer, 9 kHz to 3.2 GHz | DSA832 |
| | spectrum analyzer, 9 kHz to 7.5 GHz | DSA875 |
| | spectrum analyzer, 9 kHz to 3.2 GHz | DSA832E |
| | spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed) | DSA832-TG |
| | spectrum analyzer, 9 kHz to 7.5 GHz (with tracking generator, factory installed) | DSA875-TG |
| | spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed) | DSA832E-TG |

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Nov. 2016