

# Ekahau Analyzer

Professional-grade Wi-Fi spectrum analysis and troubleshooting app for Android and iOS, optimized for use with Ekahau Sidekick 2™.



## Identify Wireless Interference Sources Fast and Keep Business Running Smoothly

Ekahau Analyzer provides mobility and convenience for troubleshooting the most common network problems – with the Android or iOS device right in your pocket. Connect your tablet or phone to the Ekahau Sidekick 2 to diagnose your network faster, safer, and more mobile.

### Expert-Level Troubleshooting Detail At-a-Glance

Connected to the Sidekick 2, Ekahau Analyzer validates that your network has been implemented properly and makes it easy to troubleshoot and resolve Wi-Fi issues in no time.

- ✔ Validate expected internet speeds from your ISP while analyzing your RF spectrum at the same time
- ✔ Compare your Sidekick's spectrum analyzer utilization against the channel utilization reported by the AP
- ✔ Your Sidekick will automatically detect any sources of non-Wi-Fi RF interference, such as microwave ovens, wireless video cameras and more
- ✔ Examine how the Wi-Fi has been implemented and configured without needing to log on to the wireless controller system
- ✔ View signal strength from specific APs and identify country codes, associated stations, channel utilization, and more, all from a single screen

### Speedtest® Integration for Comprehensive Performance Insights

With the latest Speedtest integration\*, analyze your internet speed while simultaneously monitoring your Wi-Fi spectrum in real time. Gain clarity on whether performance issues stem from your ISP or your wireless network and eliminate guesswork when troubleshooting.

### Key Features

- ✔ Super fast & high resolution spectrum measurements to identify interference sources on your mobile device
- ✔ Integrated Speedtest by Ookla® for trusted internet speed measurements alongside real-time Wi-Fi spectrum analysis
- ✔ Simple and easy to navigate touchscreen interface with clear pass/fail indication
- ✔ Automatic & continuous Wi-Fi health validation against industry defined requirements
- ✔ Standardized and accurate measurements provided by Ekahau Sidekick 2
- ✔ Pinpoint network performance bottlenecks by correlating Wi-Fi spectrum issues with internet speed metrics
- ✔ Identify and locate rogue and unauthorized access points
- ✔ Built-in packet capture functionality for in-depth analysis
- ✔ Ultra-lightweight Android & iOS application and Android OS 8 devices or newer
- ✔ Compatible with all iOS devices running iOS 12 or newer and Android OS 8 devices or newer

### Fast, High-Resolution Spectrum Analyzer App

The Spectrum view utilizes the high-resolution spectrum analyzer in the Ekahau Sidekick 2 to display RF interference in real-time. vAutomatically detect the most common Wi-Fi interference sources and gain clear visibility into your network. Troubleshoot issues fast and resolve both Wi-Fi and non-Wi-Fi-related issues in no time. The integration of Speedtest into Ekahau Analyzer delivers a complete performance picture by correlating internet speed results with Wi-Fi spectrum health metrics.

### Packet Capture for Advanced Troubleshooting

Leverage all 4 Wi-Fi radios in Ekahau Sidekick 2 to capture on 4 Wi-Fi channels simultaneously\*\* and ensure packets aren't missed while devices roam between two access points. Capture on 2.4, 5 and 6 GHz simultaneously.

\*Speedtest integration is currently only available for iPhones and iPads

\*\*Packet Capture is currently only available for iPhones and iPads. Original Sidekick captures packets on up to 2 Wi-Fi channels simultaneously and is limited to 2.4 and 5 GHz

# Ekahau Analyzer Mobile App



## Ekahau Analyzer Features

- ✔ Auto-Test automatically validates the health of your Wi-Fi network by testing against predefined requirements and displaying results with clear and easy-to-understand pass/fail indications.
- ✔ Signal Strength Analysis provides instant access to your Wi-Fi network details, showing the primary signal level and secondary signal for redundancy and roaming purposes.
- ✔ Signal-to-Noise Ratio (SNR) Analysis visualizes the signal quality of your network, which directly impacts achievable data rates and how different clients and applications perform in your network.
- ✔ Channel Quality Analysis quickly determines which channels in your network are over utilized and are causing interference.
- ✔ Connectivity Analysis tests your network with your mobile device by monitoring the roaming behavior and verifying your network has sufficient overlap.
- ✔ Spectrum Analysis visualizes the high resolution, high speed spectrum analyzer of the Sidekick 2 on your mobile device—allowing you to troubleshoot interference issues and identify common interferes automatically.

## Sidekick 2 Wi-Fi Measurement & Testing

- ✔ 4x tri-band (2.4, 5 & 6 GHz) high performance Wi-Fi radios
- ✔ 9 custom 3D integrated antennas for omnidirectional accuracy
- ✔ Wi-Fi 6E, Wi-Fi 6, Wi-Fi 5, Wi-Fi 4
- ✔ Legacy 802.11a/b/g
- ✔ Supports all regulatory domains
- ✔ Wi-Fi amplitude range: -20...-92 dBm

## Sidekick 2 Spectrum Analyzer

- ✔ Tri-band (2.4, 5 & 6 GHz) high resolution spectrum analyzer
- ✔ Max sweep speed: up to 50 sweeps per second (2.4, 5 & 6 GHz @ max accuracy)
- ✔ Amplitude range: -20...-92 dBm
- ✔ Frequency range: 2.400-2.495 & 5.000-7.125 MHz
- ✔ Spectrum capture width: 80 MHz
- ✔ Frequency resolution: 19 kHz all bands

## Identify Interference Sources on 2.4, 5 and 6 GHz

- + Non-Wi-Fi standards on Wi-Fi bands
- + Microwave oven
- + Weather radars (DFS)
- + Rogue transmitters / Jammers
- + Uncontrolled ISM band “toys”
- + Broken or Badly behaving devices (EMC)
- + Industrial strong RF fields from machines etc

## Speedtest Feature

- ✔ Speedtest is currently available for iOS only

## Network Overview

- ✔ Network Overview is currently available for iOS only

## Packet Capture

- ✔ Simultaneous four channel capture on 2.4 GHz, 5 GHz, and 6 GHz bands
- ✔ Packet Capture is currently available for iOS only

## Minimum Device Requirements

- ✔ Android OS 8 or newer
  - + 2 GB RAM, Quad Core CPU, 1080 x 1920 screen resolution, Cable Requirements: Android OTG (On the Go) cable connected directly to the Sidekick
- ✔ Apple iPhone/iPad with iOS 16/ iPadOS 16 or newer
  - + Compatible models: iPhone X or newer; 12.9-inch iPad Pro (all models); 11-inch iPad Pro; 9.7-inch iPad Pro; iPad (5th generation); iPad Air & iPad Air 2; iPad Mini 2 or newer models
  - + Speedtest integration: iPhone with iOS 17 or newer, iPhone XR (2018), iPhone XS and XS Max (2018), Newer Models A12 Bionic chip or later, 3GB or higher; iPad with iPadOS 17 or newer, iPad (8th generation, 2020), iPad Air (3rd generation, 2019), iPad mini (5th generation, 2019), Newer Models A12 Bionic chip or later, 3GB or higher
  - + Cable Requirements: USB-C to USB-C cable (iPhone 15 and iPad Pro models), Apple Lightning to USB Camera Adapter or Apple USB-C to USB Adapter (iPhone 14 and older iPhones and iPads with Lightning connector)

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Speed tests calculated using PSC channels only

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