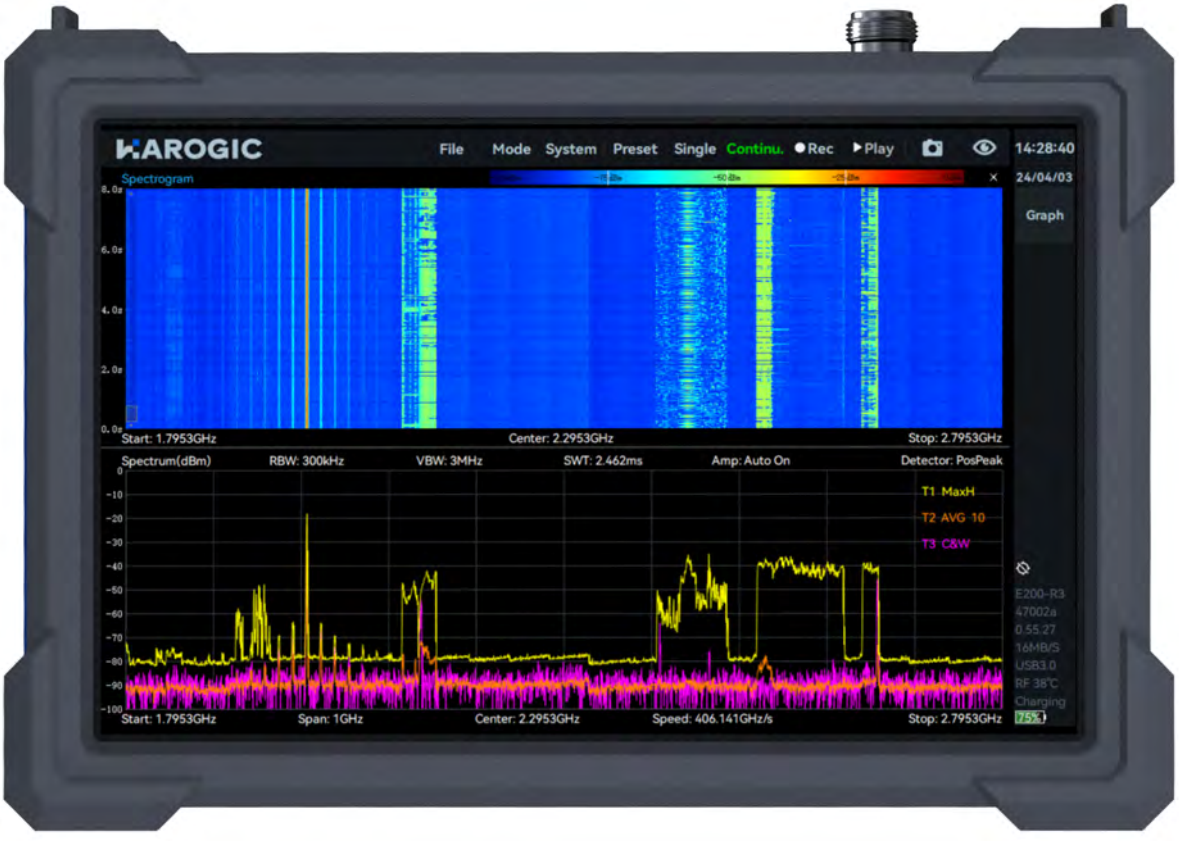
PRODUCT
PORTFOLIO

# Extend RF Boundaries.

## CUTTING-EDGE RF INSTRUMENTS AND MORE




HAROGIC

PX Series

NX Series

SA Series

HAROGIC explores bold idea to deliver precise and reliable RF instruments for every innovator. From higher dimensions to real-world impact, we empower innovators to explore, create and redefine what's possible for cutting-edge RF systems and more.

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# PRODUCT PORTFOLIO OVERVIEW

## PX Series Handheld Real-time Spectrum Analyzer

- Light as 1.5 kg with 10.1-inch touchscreen
- Frequency range up to 40 GHz
- Build-in FPGA for real-time spectrum analysis
- Channel power, ACPR, OBW, Phase noise and more (std.)

## SA Series USB Real-time Spectrum Analyzer

- Frequency range up to 40 GHz
- Analysis bandwidth up to 100 MHz
- Sweep speed over 1 THz/s
- Module light as 300 grams

## NX Series 1GbE-connected Real-time Spectrum Analyzer

- 1GbE-connected for long distance communication
- Frequency range up to 40 GHz
- Compatible with Windows and Linux OS
- Built-in GNSS (std.)

PX series

HAROGIC

# Portable Makes Possible.

## HANDHELD REAL-TIME SPECTRUM ANALYZER

PXN-400 40 GHz

# PX SERIES OVERVIEW

The PX series packs a punch with its handheld real-time spectrum analyzer, featuring a sleek 10.1-inch full touch screen. Weighing in at just 1.5 kg, this lightweight marvel covers a frequency range from 9 kHz to 40 GHz. With an analysis bandwidth of up to 100 MHz and a sweep speed of up to 900 GHz/s, it's a powerhouse.


## PX series comparison table

| Model | PXE-90 | PXE-200 | PXN-400 |
|---|---|---|---|
| **Frequency** | 9 kHz-9.5 GHz | 9 kHz-20.0 GHz | 9 kHz-40.0 GHz |
| **Architecture** | SHR | SHR | SHR |
| **Preselect filters** | 14 | 19 | 11 |
| **Analysis bandwidth** | | 100 MHz | |
| **1 GHz phase noise, 10 kHz offset (typ.)** | -101 dBc/Hz | -100 dBc/Hz | -107 dBc/Hz |
| **DANL at 1 GHz (typ.)** | -168 dBm/Hz | -168 dBm/Hz | -161 dBm/Hz |
| **Touchscreen** | | 10.1-inch | |
| **Weight** | | 1.5 kg | |
| **Battery life (typ.)** | | 3 h | |

PX series

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# Portable Makes Possible.

## HANDHELD REAL-TIME SPECTRUM ANALYZER

PXE-200 20 GHz

# Main working mode description

PX series is capable of four working modes, including SWP (standard spectrum analysis), IQS (IQ streaming), DET (power detection analysis or zero span), and RTA (real-time analysis).

## Description of the main working modes of SAStudio4

### ■ Standard Spectrum Analysis (SWP)

The capabilities of SWP mode include: panoramic scanning, waterfall graph, record and playback, phase noise, IM3, channel power, XdB, OBW, ACPR.


### ■ IQ Streaming (IQS)

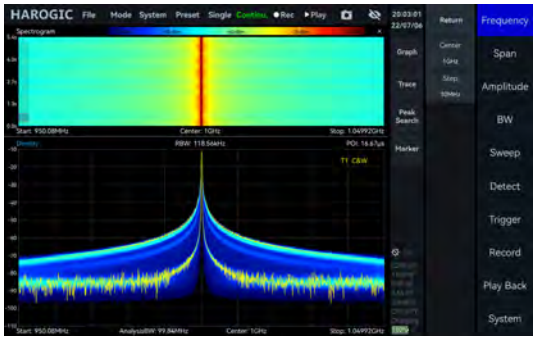
The capabilities of IQS mode include: observation of IQ time domain waveforms and corresponded spectrum data, record and playback, demodulation, and digital down-conversion (DDC).


### ■ Detection Analysis Mode (DET)

The capabilities of DET mode include: power waveform observation and analysis, record and playback.


### ■ Real-time Spectrum Mode (RTA)

The capabilities of RTA mode include: real-time spectrum probability density plots, record and playback and waterfall graph.



SA Series

HAROGIC

# Create your RF System Now.

## USB REAL-TIME SPECTRUM ANALYZER

SAN-400 40 GHz

# SA SERIES OVERVIEW

The SA series by HAROGIC delivers compact USB real-time spectrum analyzers that are as sleek and portable as your smartphone. With SWaP-C (Size, Weight, and Power - Cost) optimization and self-developed filters, these lightweight instruments are perfect for embedded RF systems and portable RF measurements.


## SA series comparison table

| Model | SAM-60 | SAM-80 | SAE-90 | SAE-200 | SAN-400 |
|---|---|---|---|---|---|
| **Frequency** | 9 kHz-6.3 GHz | 9 kHz-8.5 GHz | 9 kHz-9.5 GHz | 9 kHz-20.0 GHz | 9 kHz-40.0 GHz |
| **Sweep Speed** | 300 GHz/s | 300 GHz/s | 1200 GHz/s | 1200 GHz/s | 500 GHz/s |
| **Architecture** | Low IF | Low IF | SHR | SHR | SHR |
| **Preselect filters** | 8 | 8 | 14 | 19 | 11 |
| **Analysis bandwidth** | 100 MHz | | | | |
| **1 GHz phase noise, 10 kHz offset (typ.)** | -1 14 dBc/Hz | -120 dBc/Hz | -101 dBc/Hz | -100 dBc/Hz | -107 dBc/Hz |
| **Weight** | ＜400 g | | | | |
| **Size** | 160*60*20 mm | 160*60*20 mm | 140*65*25 mm | 140*65*25 mm | 140*65*25 mm |

NX Series

HAROGIC

# Unleash Limitless Connectivity.

## 1GbE-CONNECTED SPECTRUM ANALYZER

NXE-200 20 GHz


NX Series

9 kHz – 20 GHz real-time spectrum analyzer
SHR architecture, 19 segments preselect filter
100 MHz analysis bandwidth, 320 GHz/s
Weight 660 grams, size 167 mm*117 mm*28 mm
Highly compatible interfaces and SAStudio4

# NX SERIES OVERVIEW

- 1GbE-connected real-time spectrum analyzer
- Frequency range up to 40 GHz
- Analysis bandwidth up to 100 MHz
- Built-in FPGA signal processing
- Built-in GNSS (std.)
- Lightweight as 660 grams and power consumption low as 16 W

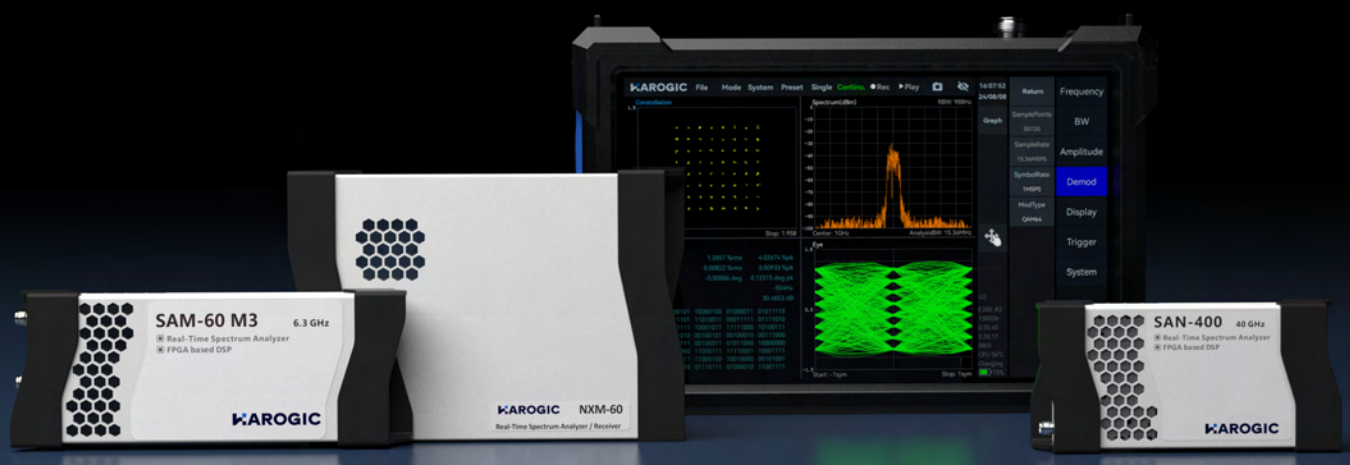
## NX series comparison table

| Model | NXM-60 | NXM-80 | NXE-90 | NXE-200 | NXN-400 |
|---|---|---|---|---|---|
| **Frequency** | 9 kHz-6.3 GHz | 9 kHz-8.5 GHz | 9 kHz-9.5 GHz | 9 kHz-20.0 GHz | 9 kHz-40.0 GHz |
| **Sweep Speed** | 78 GHz/s | 163 GHz/s | 330 GHz/s | 330 GHz/s | 300 GHz/s |
| **Architecture** | Low IF | Low IF | SHR | SHR | SHR |
| **Preselect filters** | 8 | 8 | 14 | 19 | 11 |
| **Analysis bandwidth** | 100 MHz | | | | |
| **1 GHz phase noise, 10 kHz offset (typ.)** | -114 dBc/Hz | -120 dBc/Hz | -101 dBc/Hz | -100 dBc/Hz | -107 dBc/Hz |
| **Weight** | ＜660 g | | | | |
| **Size** | 167*117*28 mm | | | | |

KAROGIC

# Extend RF Boundaries.

SPECTRUM ANALYSIS
IQ DEMODULATION
RF SYSTEMS AND MORE

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