

# NextGen 8 GHz Pulse Radar

## NextGen 8 GHz Pulse Radar

SkyRadar's NextGen 8 GHz Pulse radar offers a comprehensive solution for ATSEP-training, education, and research. With a range resolution of 11 cm, a range up to 25 m, and a pulse width of 0.5 ns, it ensures precise detection. Operating with the SkyRadar [FreeScopes](#) Software, it provides scopes (A-Scope/B-Scope/PPI), interfaces, and filters, enabling tailored learning. Its modular design allows for gradual expansion with downloadable modules. Compatible with various radar types, it meets the needs of civil aviation, defense, academia, and industry.



### FEATURES

- Range Resolution: better than 10.6 cm
- Range: up to 10 m
- Tx center frequency (ETSI / KCC): 7.29 GHz / 8.748 GHz
- Tx bandwidth (ETSI): 1.4 GHz
- Pulse Width: 0.5 nsec (Gaussian)
- Peak Pulse output power (ETSI): -0.7 - 6.3 dBm

- PRFN: 15,2 MHz
- Rx sampling rate: 23.3 GS/s
- Rx gain (ETSI): 12.3 - 15 dB
- Rx noise figure (ETSI): 5.4 - 8.8 dB

## PREREQUISITES

- Current versions of Chrome
- Suitable recent computers
- SkyRadar FreeScopes Basic I

## EXTENSIONS

- Rotary Tripod (recommended)
- Cloud Server (recommended)
- FreeScopes Basic II
- FreeScopes ATC I
- FreeScopes ATC II
- SkySMC System Monitoring and Control
- SkySim Radar Simulator
- FreeScopes ATC Disturbance Filtering and Analysis I
- FreeScopes ATC Disturbance Filtering and Analysis II
- FreeScopes Artificial Intelligence I
- SkyRadar Mobile Target Positioning System
- 24 GHz FMCW extension
- 24 GHz Noise Radar extension

and many more.

---

## A training center example with FreeScopes Basic I, Basic II & ATC I

SkyRadar offers the world-wide most comprehensive radar training system.