




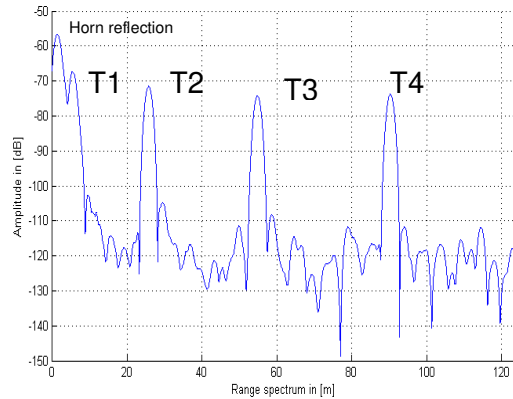
## Our Range of Products for Radar and Radar Signal Testing



	dynRTS and staRTS		minRTS		Frequency Converter	
						
<b>Frequency range</b>	77/79 GHz band	24 GHz ISM band	77/79 GHz band	24 GHz ISM band	77/79 GHz band	24 GHz ISM band
<b>Instantaneous bandwidth</b>	5000 MHz (std)	200 MHz	5000 MHz (std)	200 MHz	5000 MHz (std)	200 MHz
	up to 10000 MHz		up to 10000 MHz		up to 10000 MHz	
<b>Number of targets</b>	1 dynamic or up to 6 static in parallel		1 static		-	
<b>Target distance</b>	up to 1000 m (in 4096 steps)		5 m internal (more with additional optical fiber extensions)		-	
<b>Target Gain Flatness</b>	±2 dB, typ		±2 dB, typ		-	
<b>Target velocity</b>	up to ±400 km/h		-		-	
<b>Target size</b>	80 dB dynamic range		30 dB dynamic range		-	
<b>Exceptional spurious suppression in Doppler Spectrum</b>	40 dB, typ		40 dB, typ		-	
<b>Phase Noise at 77GHz</b>	@10 kHz: 90 dBc		@10 kHz: 90 dBc		@10 kHz: 90 dBc	
<b>Dimensions [mm]</b>	482.6(W) x 450(L) x 177(H)		178.9(W) x 216.4(L) x 100(H)		178.9(W) x 216.4(L) x 100(H)	

<b>3in1</b>	Radar Target Simulation	✓	✓	✓ (feasible with external Coax-Cables)
	Calibrated Down-Converter (for Signal Analysis)	✓	✓	✓
	Calibrated Up-Converter (for Interference Test)	✓	✓	✓

## RTS Radar Target Simulator



### Simulate Radar Targets

Simulate a single dynamic or multiple static radar targets in the 77/79 GHz or 24 GHz band with our simulator family - customized on your request.

Instantaneous BW:	up to 10 GHz (200 MHz at 24 GHz)
Target Distance:	up to 1000 m
Target Velocity:	up to $\pm 400$ km/h
Exceptional spurious suppression in	
Doppler spectrum:	>40 dB
Phase Noise at	
77 GHz / 10 kHz:	90 dBc

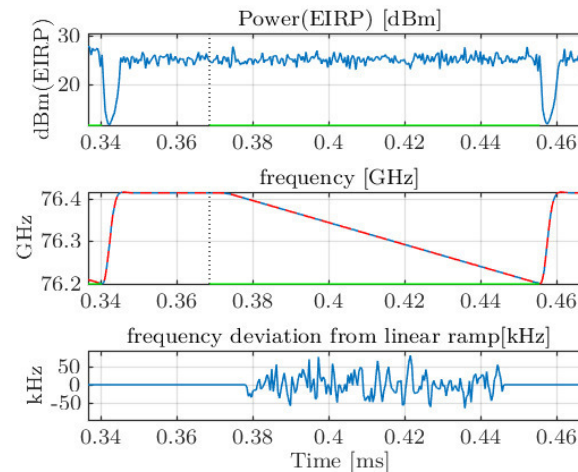
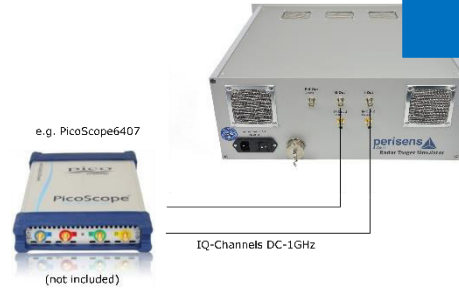
Version: 201809-01

## 3in1

Calibrated Down-Converter  
(for Signal Analysis)

SAVE COST  
using IF Measurement  
Capability of RTS

Calibrated Up-Converter  
(for Signal Generation)



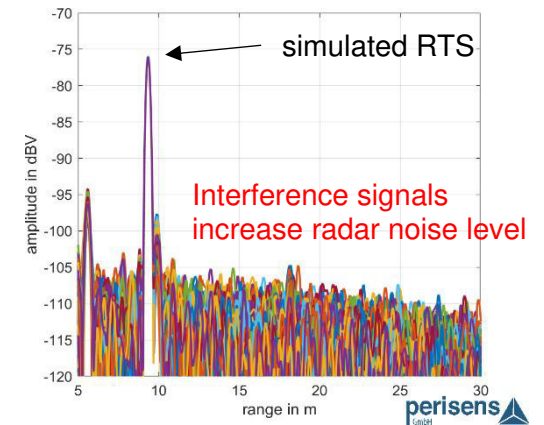
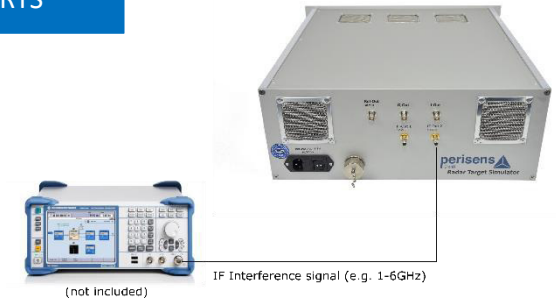
### Characterize Radar Signals

Use calibrated RTS output ports (IF or base-band) for characterizing radar signals by

- Power measurement
- Spectrum analysis
- Ramp analysis

using cost-effective measurement equipment

**perisens offers cost-effective solution for 2 GHz FMCW chirp analysis based on USB PC oscilloscope (PicoScope 6407)**



### Generate (Interference) Signals

Interferer signals like

- sine signal
- noise signals
- FMCW ramps

can be injected at low IF frequencies of RTS using cost-effective signal generators (up to 6 GHz for 76-81 GHz coverage)