

INTRODUCTION

The Metravi DDS-35 and DDS-70 Function Generators are compact yet high-performing, arbitrary waveform generators with built in support for Lab View.

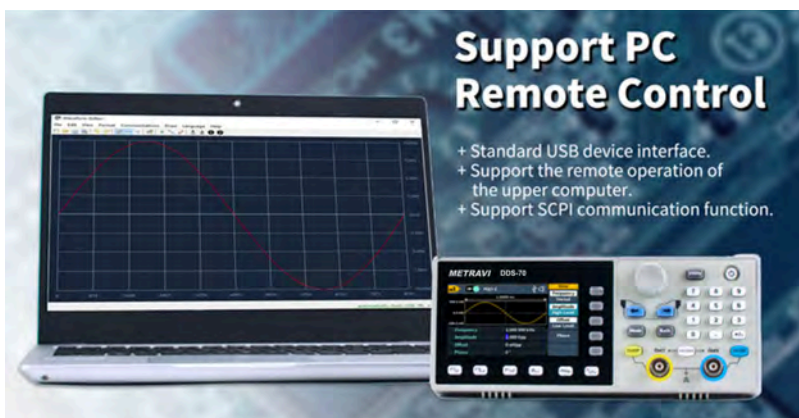
These function generators can produce 5 basic waveforms & have 150 built-in arbitrary waveforms. They feature high resolution 3.6 inch LCD displays. The compact size of the instruments makes them ideal for the professional on-the-go and on the field or lab.

FEATURES

- 35MHz/70MHz frequency output.
- Max 300MSa/s Sample rate.
- Vertical resolution 1 μ Hz.
- 14 bits Vertical Resolution.
- 8K Arb waveform length.
- Comprehensive waveform output.
- 5 basic waveforms and 150 built-in arbitrary waveforms.
- Comprehensive modulation functions : AM, FM, PM, FSK, Sweep, and Burst.
- SCPI, and LabVIEW supported.
- 3.6 inch (480 × 260 pixels) LCD.
- Ultra thin, lightweight and compact.



Dimension (W x H x D):
200mm x 86.5mm x 74.5mm



*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATION

Model	DDS-35	DDS-70
Channel	2	
Frequency Output	35MHz	70MHz
Sample Rate	500MSa/s	
Vertical Resolution	14 bits	
Waveform		
Standard Waveform	sine, square, pulse, ramp, noise	
Arbitrary Waveform	exponential rise, exponential fall, sin(x)/x, step wave, and others total 150 built-in waveforms	
Frequency		
Sine	1μHz-35MHz	1μHz -70MHz
Square	1μHz ~ 15MHz	1μHz ~ 20MHz
Pulse	2mHz ~ 15MHz	1μHz ~ 20MHz
Ramp	2mHz ~ 1MHz	1μHz ~ 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	2mHz ~ 10MHz	
Frequency resolution	1μHz or 7 significant figures	
Frequency stability	±30 ppm at 0±40°C	
Frequency aging rate	±30 ppm per year	
Arbitrary		
Waveform Length	2 points – 8K points	
Sample Rate	125Ma/s	300Ma/s
Amplitude		
into 50Ω load	1mVpp ~ 10Vpp (≤ 10MHz) 1mVpp ~ 5Vpp (≤70MHz)	
DC Offset Range (AD+DC)	±(10 Vpk – Amplitude Vpp/2) high resistance ±(5 Vpk – Amplitude Vpp/2) 50 Ω	
DC offset resolution	1mV or 4digits	
Load Impedance	50Ω (typical)	
DC Offset Accuracy	±(1 % of setting + 1 mV + amplitude Vpp * 0.5%)	
Modulation		
Type	AM、FM、PM、FSK	
Internal Modulation Frequency	2 MHz to 100 kHz	

*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATION

Model	DDS-35	DDS-70
Sweep characteristic		
Carrier	Sine, rectangular wave, ramp wave, arbitrary wave(Except DC)	
Minimum/maximum starting frequency	2mHz (minimum) / maximum frequency of corresponding carrier	
Minimum/maximum termination frequency	2mHz (minimum) / maximum frequency of corresponding carrier	
Trigger source	Internal, external	
Burst characteristic		
Waveform	Sine wave, square wave, ramp wave, pulse wave and arbitrary wave (Except DC)	
Types	N-Cycle	
Trigger source	Internal, manual	
Carrier frequency	2 mHz ≤ Offset ≤ Maximum frequency of corresponding carrier /2	
Input / Output		
Display	3.6"480 x 272 pixels LCD	
Communication Interface	USB Device	
Mechanical specifications		
Size	200mm x 68.5mm x 75mm	
Weight	0.5kg	



*Technical Specifications & Appearance are subject to change without prior notice