

## General Description:

The GD-300 is designed to provide features which are most widely used and favored by professionals in CATV industry at the least cost. It can be used to measure accurately the Analogue channels, Digital channels efficiently and effectively with high accuracy rate. Mainly it supports C/N, level, channel power measurement, voltmeter function, spectrum analysis and so on. Overall, its functions are easy to use and can be used in a wide range of applications.

## Features:

Accurate QAM testing: digital average power, MER, BER  
Support multiple DVB mode: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM  
Single channel/Frequency simulated power levels testing.  
Video and audio signal power levels testing  
V/A testing. Show the frequency of video and audio, field intensity and power level difference simultaneously.  
C/N testing. Slope testing,  
QAM View includes BER, MER, and constellation



## Applications:

- Cable modem analysis using Zero Span mode provides accurate, in-service power and C/N measurements.
- QAM View option provides complete analysis of digital TV and forward cable modem signals.
- Find ingress fast with Field View option. Cable technicians working in the field can see the reverse path at the headend.
- Full, in-service, proof-of-performance analyzer.
- Fast, sensitive spectrum analyzer.
- Digital QAM carrier demodulation includes 16, 32, 64, 128 and 256 QAM constellation display with zoom, average digital power level, bit error rate (BER), and 22 to 39 dB modulation error rate (MER).

# Handle CATV Signal Level Meter GD300 series

## Specifications:

Channel/Frequency index		Digital Channel	
Frequency Range	46MHz~870MHz, 5MHz~870MHz(Only for type with letter D)	modulation mode	comply with DVB-C/ITU J83-A
Precision	50ppm (at 25°C+5°C)	QAM mode	16/32/64/128/256QAM
Resolution	10KHz	Symbol Rate	1MS/S-7MS/S
Measurement Band width	280KHz	Band width	set by user
Frequency step	50KHz, 100KHz,500KHz	MER	22-39 dB
<b>Channel type</b>		Precision	±2dB
Analog TV	TV	BER	1E-4~1E-9
Digital TV	16/32/64/128/256 QAM	<b>Carrier-Noise ratio(C/N)</b>	
Frequency/Channel	SIGL	signal input range	>70dBuV
<b>Analog power level testing</b>		measuring range	20dB~50dB
measuring range	25dBuV ~ 120 dBuV	Precision	±2 dBuV
Precision	±1.5dB	Resolution	0.5dB
Resolution	0.1 dB	<b>Spectrum Analysis</b>	
detection method	Peak value detection	Frequency Range	5MHz~870MHz
input impedance	75Ω	Resolution	100Hz
<b>Digital power level testing</b>		Precision	50ppm
measuring range	25dBuV ~ 110 dBuV	power levels range	25dBV~120dBV
Precision	±1.5dB	power levels resolution	0.1dB
Resolution	0.1 dB	power level Precision	±1.5dB
detection method	average value detection	Dynamic range	60dB
input impedance	75Ω	input impedance	75Ω
<b>Voltage testing</b>		RBW	300KHz
input range	0 ~ 80V( AC/DC)	testing band width	6、12、62MHz、 All range scan
precision	±2V	<b>Slope testing</b>	
resolution	0.1V	Number of channels	5
		resolution	±0.1dB
		QAM testing function(Q model)	

Note: All the above-mentioned technical indexes wholly represent the indoor temperature (25°C)

## General specifications:

Audio Output	Built-in speaker
Battery	7.2V,Ni-MH battery
Operating Time	Average 6~8 hours (Fully charged)
Charging Time	Less than 5 hours
Dimension	210*95*48 (mm)
Net weight	1.2Kg
Working temperature	-10 to 45 Celsius

## Ordering Information:

GD300	46MHz to 870MHz
GD300D	5MHz to 870MHz
GD300Q	46MHz to 870MHz, with QAM function
GD300DQ	5MHz to 870MHz, with QAM function



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