

## High Voltage For Oscilloscope Probe

UT-P21



## INSTRUCTION MANUAL

### (1) Specifications

Max. Working Voltage	DC:0~10KV; AC:≤7KVrms [note*] Please follow Point 4 of Note under heading (4)	
Single/Noise	DC≥60dB(1KHz), ≥50dB(1MHz)	
Bandwidth	DC~40MHz (-3dB)	
Attenuation Ratio	1:1000	
Rise Time	≤8.8ns	
Impedance	100MΩ±5%	
Input Capacitance	3.0pF±0.5pF	
Compensation capacitor	5pF~50pF	
Cable Length	2.0meter (±0.2M)	
Temperature Coefficient	≤200ppm/°C	
Accuracy	DC	±5% (DC to 10KV)
	AC	±5% (1KHz/1KV) -3dB 40MHz
Operating Temperature	0~50°C	
Storage Temperature	-20~+70°C	
Weight/Dimension	250g/Φ80×340 mm	

### (2) Safety instructions


**This High Voltage Probe is only used by trained and experienced personnel or qualified engineers.**

1. Do not work alone during High Voltage Probe.
2. Please check whether the High Voltage Probe is damaged or the cable is damaged before use.
3. Keep your hands, shoes and floor dry when working to avoid electric shock hazard.
4. Please turn off the high-voltage power supply before the

connection is completed; Please also turn off the power before discontinuing use.

### (3) Operation method

1. First connect the ground wire to a good grounding point.
2. Connect the BNC probe to the input end of the oscilloscope.
3. Set the gear position required by the oscilloscope.

 Attention! Do not turn on the high voltage power until the above connection is completed.

4. Turn on the oscilloscope. After the oscilloscope is stabilized, connect the point to be tested and turn on the high-voltage power supply.

### (4) Matters needing attention

1. Do not measure until the grounding wire is properly connected.
2. Under no circumstances shall the ground wire be connected to a high-voltage power supply or the tip of the High Voltage Probe be grounded.
3. Before turning on the high-voltage power supply, please make sure that no part of your body touches the high-voltage part.
4. When measuring above DC10KV or AC7KV, do not continue for more than 1 minute in order to avoid overheating affecting the accuracy of the measurement. During this period, wait for about 5 minutes before the measurement.
5. Before grounding is removed, make sure the tip of the High Voltage Probe is away from the high-voltage power supply.

### (5) Clean

1. When cleaning the High Voltage Probe body, please wipe it with a soft wet cloth. Do not immerse the High Voltage Probe in water.
2. Dry the High Voltage Probe and keep it dry before measurement.
3. Do not wipe and clean the High Voltage Probe with any organic solvent.