

# Wideband Amplifier 3030



The 3030 is a DC to 1MHz amplifier with a maximum output of 30 volts peak to peak from a 50 Ω source impedance. A 600 Ω output is also provided. The unit can output up to 15 volts peak to peak into a 50 Ω load and can drive up to 300 mA peak into a low impedance or short circuit.

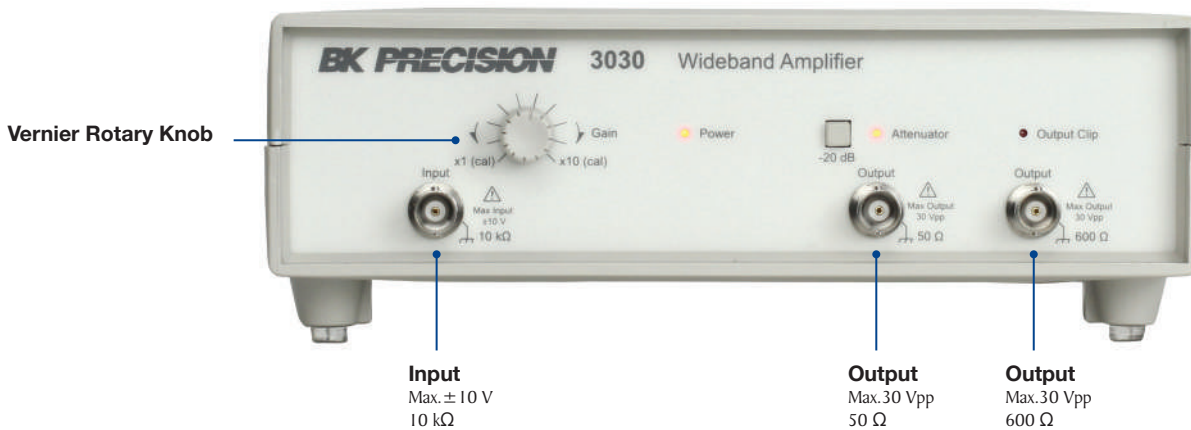
The amplifier gain can be adjusted between x1 and x10 using the Vernier adjustment knob. Additional features include a -20 dB attenuator and LED notifying when a signal is beyond the output limit (clipping).

### Applications

- Control system design
- Audio and baseband signal amplification
- Extend the output range of an arbitrary or function generator

### Features and benefits

- 30 Vpp output from 50 Ω
- DC to 1 MHz bandwidth
- 50 Ω and 600 Ω outputs
- -20 dB attenuation
- LED notification for clipped signals
- Fully protected output with high current drive



## Specifications

Note: All specifications apply to the unit after a temperature stabilization time of 30 minutes over an ambient temperature range of  $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ . Specifications are tested for a 15 Vpp output into 50  $\Omega$  at x10 gain.

Model	3030
<b>Input Specifications</b>	
Bandwidth	-3 dB at 1 MHz
Flatness	-1 dB at 400 kHz
Rise/Fall Time	< 0.5 $\mu\text{s}$
Distortion	< 0.1% at 1 kHz
Impedance	10 k $\Omega$
Max Allowable Input Voltage	$\pm 10\text{ V}$
<b>Output Specifications</b>	
Gain	Adjustable from x1 to x10
Impedance	50 $\Omega$ and 600 $\Omega$
0 dB	30 V pk-pk from 50 $\Omega$ (15 V into 50 $\Omega$ )
-20 dB	3 V pk-pk from 50 $\Omega$ (1.5 V into 50 $\Omega$ )
DC Offset Power	< 5 mV
<b>General</b>	
Power	110 V to 120 V AC $\pm 10\%$ 50/60 Hz for model 3030 220 V to 240 V AC $\pm 10\%$ 50/60 Hz for model 3030-220 20 VA max. Installation Category II
Operating Range	+5 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$ , 20% to 80% RH.
Storage Range	-40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
Environmental	Indoor use at altitudes up to 2000 m, Pollution Degree 2
Safety	+5 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$ , 20% to 80% RH
Electrical Safety	Complies with EN61010-1
EMC	Complies with EN61326
Weight	2.4 lbs (1.1 kg)
Dimensions (W x H x D)	8.3 in x 3.0 in x 9.1 in (210 x 75 x 230 mm)
Warranty	1 years
Standard Accessories	Power cord and certificate of calibration

## Ordering Information

Model	Description
3030	115 AC input
3030-220	220 AC input

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● B&K Precision group member ● Independent service center ● Service center location

## Quality Management System

B&K Precision Corporation is an ISO9001 registered company employing traceable quality management practices for all processes including product development, service, and calibration.

ISO9001:2015

Certification body NSF-ISR  
Certificate number 6Z241-IS8



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