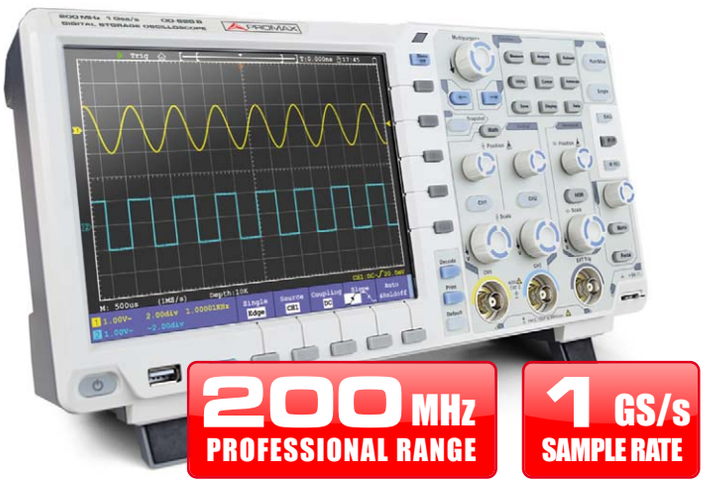
# OD-620B - PROFESSIONAL RANGE

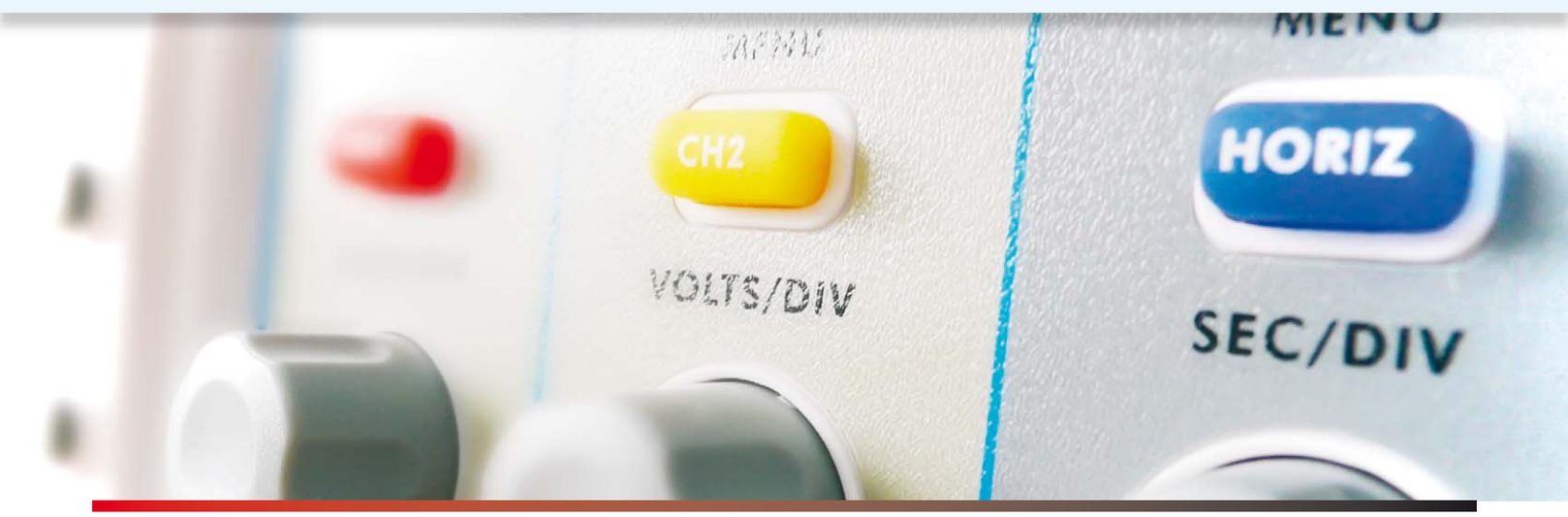



***PROMAX OD-620B*** *is a digital storage oscilloscope featuring up to 200 MHz of bandwidth and up to 1 GS/s real time sample rate. This professional range digital oscilloscope features an unprecedented large 8" high resolution display.*

*They include advanced functions such as several trigger modes, 20 automatic measurements, waveform storage and USB connectivity.*

*Their ultra-thin body (just 9 cm depth), compact design and light weight makes these* ***PROMAX*** *digital oscilloscopes ideal not only for desktop applications such as circuit design or production lines but also for those cases that demand to carry the instrument from one location to another: automobile maintenance and testing, education and training, etc.*

- ✓ **Bandwidth: 200 MHz**
- ✓ **Sample rate: 1 GS/s**
- ✓ **Up to 40 M record length**
- ✓ **Ultra thin body (9 cm depth)**
- ✓ **8" high resolution color LCD-TFT display, 800x600 pixels**
- ✓ **28 automatic measurements. Math functions**
- ✓ **Communication interfaces: USB 2.0, USB for file storage, LAN, VGA**



# OD-620B - PROFESSIONAL RANGE

| SPECIFICATIONS | OD-620B DIGITAL STORAGE OSCILLOSCOPE - PROFESSIONAL RANGE |
|---|---|
| Bandwidth | 200 MHz |
| Sample rate | 1 GS/s |
| Horizontal scale (s/div) | From 2 ns/div to 1000 s/div, 1-2-5 steps |
| Rise Time (at input, typical) | ≤ 3.5 ns |
| Trigger type | Edge, Pulse, Video, Slope, Runt, Window, Timeout, Nth Edge, Logic, I2C, SPI, RS-232, CAN |
| Channel | 2+1 (external) |
| Display | 8” color LCD, TFT display, 800x600 pixels |
| Input impedance | 1 MΩ ±2 %, in parallel with 15 pF ±5 pF |
| Channel isolation | 100:1 (50 Hz), 40:1 (10 MHz) |
| Max input voltage | 1 MΩ ≤ 300 $V_{RMS}$, 50 Ω ≤ 5 $V_{RMS}$ |
| DC gain accuracy | ±3 % |
| Record length | 40 M |
| DC accuracy (average) | Average ≥16: ±(3% reading + 0.05 div) for ΔV |
| Probe attenuation factor | From 0.001x to 1000x, 1-2-5 steps |
| Low Frequency response | ≥ 10 Hz (at input, AC coupling, -3 dB) |
| Sampling rate / Relay time accuracy | ±1 ppm |
| Interpolation | sin(x) / x, x |
| Interval (ΔT) accuracy (DC ~ 100 MHz) | Single: ±(1 interval time + 1 ppm x reading + 0.6 ns)<br>Average > 16: ±(1 interval time + 1 ppm x reading + 0.4 ns) |
| Input coupling | DC, AC and GND |
| Vertical resolution (A/D) | 8 bits resolution (2 channels simultaneously) |
| Vertical sensitivity | 1 mV/div - 10 V/div |
| Trigger mode | Auto, Normal, Single |
| Line / Field frequency (video) | NTSC, PAL and SECAM |
| Cursor measurement | ΔV, ΔT, ΔV and ΔT between cursors, auto-cursors |
| Automatic measurements | $V_{PP}$, $V_{AVG}$, $V_{RMS}$, $V_{MAX}$, $V_{MIN}$, $V_{TOP}$, $V_{BASE}$, $V_{AMP}$, Frequency, Period, Overshoot, Preshoot, Rise time, Fall time, Duty Cycle Delay A→B ↓, Delay A→B ↓, +Width, -Width, +Duty, -Duty, Phase, $RMS_{CYCLE}$, $RMS_{CURSOR}$, +Pulse count, -Pulse count, Rise Edge Count, Fall Edges Count |
| Waveform math | +, -, x, ÷, invert, FFT |
| Waveform storage | 100 waveforms |
| Lissajous figure | Full bandwidth. Phase difference: ±3 degrees |
| Communication interface | USB host. USB device. Trigger (Pass/Fail), LAN, VGA |
| Power supply | From 100 to 240 V, 50/60 Hz, CAT II |
| Power consumption | < 15 W |
| Fuse | 2 A, T class, 250 V |
| Dimensions | 340 (W.) x 170 (H.) x 90 (D.) mm |
| Weight (without package) | 2.60 kg |
| Accessories | Passive probe (x2), Power cord, USB cable, Quick referece guide, Battery (optional) |





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