## Data sheet

## 20 MHz Analog/Digital Storage Oscilloscope Model 2522C



B\&K Precision's Model 2522C is one of the lowest cost digital storage / analog oscilloscopes in the industry, yet it includes all the basic features needed by most technicians and engineers.
$\left.\begin{array}{|c|c|}\hline \text { Specifications } & \text { 2522C } \\ \hline \text { Storage Word Size } & \begin{array}{c}2048 \times 8 \text { bits/channel; (2 k/channel with direct sampling, } \\ \text { I k/channel with equivalent time sampling) }\end{array} \\ \hline \text { Vertical Resolution } & \text { I in 256, approximately 25 steps/div. } \\ \hline \text { Horizontal Resolution } & \text { I in 2048, approximately 200 samples/div. } \\ \hline \text { Sampling Rate } & \begin{array}{c}\text { 40 M samples/sec to } 4 \text { samples/sec, reduced in proportion to time } \\ \text { base. Direct sampling at time base settings of } 20 ~ \\ \text { es/div and slower, } \\ \text { equivalent time sampling at time base settings of } 10 ~\end{array} \text { s/div and faster }\end{array}\right\}$

- 20 MHz analog bandwidth
- $40 \mathrm{MS} / \mathrm{s}$ sampling rate each channel
- 2 k memory per channel
- USB host port for saving screen images to USB flash drives
- I GHz equivalent time sampling (at $0.1 \mu \mathrm{~s} / \mathrm{div}$ )
- Pretrigger capture

| SWEEP SYSTEM |  |
| :---: | :---: |
| Sweep Speed | $0.1 \mu \mathrm{~s} /$ div to $2 \mathrm{~s} /$ div in $1-2-5$ sequence, 23 steps. Vernier control provides fully adjustable sweep time between steps |
| Accuracy: $+3 \%$ | Sweep Magnification: 10X, +6\% |
| Hold off | Variable |
| TRIGGERING |  |
| Modes | AUTO (free run) or NORM. Source: CHI, CH2, ALT, EXT, LINE |
| Maximum External Trigger Voltage | 200V (DC + AC peak) |
| Sensitivity | Internal - 0.5 division, External -500 mV |
| TRIGGER COUPLING |  |
| AC | 30 Hz to 30 MHz . |
| TV H/HF: | Used for triggering from horizontal sync pulses. Low freeuencies are attenuated. |
| TV V DC/LF: | Used for triggering from vertical sync pulses. High frequencies are attenuated. Direct coupled. |
| HORIZONTAL AMPLIFIER(Input thru CH I Input) |  |
| X-Y Mode | Switch selectable using X-Y switch <br> CH I: X axis $\mathrm{CH} 2: \mathrm{Y}$ axis |
| Sensitivity | Same as vertical channel I |
| Accuracy | Y-Axis: $\pm 3 \%$. X-Axis: $\pm 6 \%$ |
| Input Impedance | Same as vertical channel I |
| Frequency Response | DC to 2 MHz typical ( -3 dB ) (to 6 divisions horizontal deflection) |
| X-Y Phase Difference | Approximately $3^{\circ}$ at 50 kHz |
| Maximum Input Voltage | Same as vertical channel । |
| CRT |  |
| Type | Rectangular with internal graticule |
| Display Area | $8 \times 10$ div ( 1 div $=1 \mathrm{~cm}$ ). |
| Accelerating Voltage | 2 kV |
| Phosphor | P31 |
| Trace Rotation | Electrical, front panel adjustable |
| ENVIRONMENT |  |
| Within Specified Accuracy | $50^{\circ}$ to $95^{\circ} \mathrm{F}\left(10^{\circ}\right.$ to $\left.+35^{\circ} \mathrm{C}\right)$, $85 \%$ maximum RH |
| Full Operation | $32^{\circ}$ to $104^{\circ} \mathrm{F}\left(0^{\circ}\right.$ to $\left.+40^{\circ} \mathrm{C}\right), 85 \%$ maximum RH |
| Storage | $-4^{\circ}$ to $158^{\circ} \mathrm{F}\left(-20^{\circ}\right.$ to $\left.+70^{\circ} \mathrm{C}\right)$ |
| General |  |
| Analog Output | Analog sample of CH 2 |
| Output Voltage | $25 \mathrm{mV} /$ div (nominal into $50 \Omega$ load) |
| Output Impedance | Approximately $50 \Omega$ |
| Frequency Response | 20 Hz to $10 \mathrm{MHz},-3 \mathrm{~dB}$ into $50 \Omega$ |
| Cal/Probe Compensation | Voltage |
| Power Requirements | $110 \mathrm{~V} / 125 / 220 / 240 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$, approximately 60 W $0.5 \mathrm{Vp}-\mathrm{p}+3 \%$ seuare wave, 1 kHz nominal |
| Dimensions (HxWxD) | $5.2 \times 12.8 \times 15.6^{\prime \prime}(132 \times 324 \times 397 \mathrm{~mm})$ |
| Weight | $19 \mathrm{lb}(8.6 \mathrm{~kg}$. |
|  | Three Year Waaranty |
| Supplied Accessories | Instruction Manual, Two PR 33A xI/xIO Probes or equivalent, AC Power Cord, Spare Fuse |
| Optional Accessories | PR 32A Demodulator Probe, PR 37AG xI/x10/REF. Probe, PR IOOA xI 00 Probe, <br> PR-55 High Voltage x 1000 Probe, LC 2 IOA Carrying Case |

