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Android oscilloscope hardware

LabNation, an independent team of designers and entrepreneurs, developed SmartScope, which combines three high-end tools into one mobile smart device. Available in advance only for high-tech labs, SmartScope allows everyone to own a personal laboratory! SmartScope is the first laboratory tool to work on both your computer, laptop, tablet, and smartphone. Key product highlights: · 2x100MS/s 45MHz Oscilloscope · 50MS/s Arbitrary Wave Shaped GeneratorLabNation, an independent team of designers and entrepreneurs, developed a SmartScope that combines three high-end tools into one mobile smart device. Available in advance only for high-tech labs, SmartScope allows everyone to own a personal laboratory! SmartScope is the first laboratory tool to work on both your computer, laptop, tablet, and smartphone. Key product highlights: · 2x100MS/s 45MHz Oscilloscope · 50MS/s Arbitrary Waveform Generator · Digital Logic Analyzer at 100MS/ s · Digital wave generator at 100MS/s · The 200 curves/second data update for SmartScope comes in open source and provides full access to its powerful FPGA. The system is based on FPGA records, which you can control from your computer or tablet, giving you complete control over fpga from the first time you start. Moreover, the user can flash FPGA via a USB controller, so he does not need to invest in expensive programmers! Even more complex projects can use full-speed two-way data transfer capabilities when transferring data to or from your device. On all existing USB osilloscopes, the software clearly has an afterthought. Not so SmartScope. While competitors try to imitate traditional scopes by literally requiring the user to rotate the buttons with the mouse, SmartScope fully uses the touchscreen. Pc software is identical to the mobile version. With intuitive actions (scroll to zoom or just drag a rectangle by dragging to a move) and innovative features (window pops in the foreground trigger). LabNation's vision is to open up the market for professional electronics measuring equipment for everyone. At \$179, the company believes that no one out there offers a comparable scope. According to LabNation, adding AWG, logic analyzer capabilities, intuitive software and pioneering Android/iOS support usually generate a much higher price. Although the required functionality (USB-OTG) has become the standard for Android devices in recent years, we were unable to get cooperation from Apple (.). As such, our team set out to start from jailbroken iOS devices, and hack our way into the USB controller, which we eventually managed. However, this means that SmartScope will only be recognized if a jailbreak patch is applied to your iOS smartphone (which is a free, legal software operation that takes 10 minutes of your time). Usb-OTG is supported on Android since v3.1, however, it depends on the age and quality of the user's phone, or the USB-OTG USB-OTG properly implemented. There are sites that describe how to test USB-OTG functionality. Accuracy: Windows: driver available for XP, Win7, Win8 OSX: supported, no driver (used generic USB drivers) linux: supported, no driver (used generic USB driver) for Android: tested and verified \$ 52 Q88 tablet, Sony Xperia Z. More will be tested soon, but no problem expected, as phones / tablets either support USB detected or not. Tested and tested on iPad1, iPad2, iPhone 5, iPhone 5S. Won't work on iPhones 1.2.3 because they just don't have a USB chip. The Power/Sync port is essentially a microUSB port that targets twofold: if your tablet/smartphone is running out of battery charging, you can run the SmartScope through that port. This can be done using any standard microUSB charger cable. More advanced, LabNation provides the ability to connect multiple SmartScopes together. In this scenario, different SmartScopes synchronization is essential. This can be easily achieved by connecting the two devices using your Power/Sync port using the cable provided in the 4-channel reward pack. LabNation is a start-up company consisting of the following persons: Riemer Grootjans author of 3 books on XNA with positive reviews. In 2007, 2008, 2009, and 2010, he received the Microsoft MVP Award. Prof. Maarten Kuijk: remain true to his passion: teaching part-time classes as a professor at the Master's master's degree in unique engineering. Maarten acts as a smartscope project consultant. Glan Li: Born and educated in China, Glan has extensive experience in manufacturing and quality assurance areas. Bruno Buysens: is well known in the business scene, constantly looking for new business ideas and looking to start his own start-up. With LabNation, he hopes to take on a more leadership role. About a year of Research and Development, LabNation produced the first prototype in March 2013, the second version in August and the third in October. In November, a small batch of 10 finished products was produced in China, according to Glan's affirmative eye. Sign up for the Power Electronics eNewslettersMegger has launched a ground/ground resistance tester named DET2/3 with optional test lead reels to reduce the time and frustration of the operator. The high-performance ground tester replaces DET2/2, which has been widely used in the industry for 25 years. DET2/3 is a graphical display for better data analysis, error detection capabilities, and a wide range of test frequencies to ensure noise protection. The company says DET2/3 offers improved accuracy and stability. The DET 2/3 test frequency range is from 10 Hz to 200 Hz at 0.5 Hz, with an automatic frequency selection function allowing users to ensure that the tests are conducted at the frequency with the lowest noise level. The new model ground tester has a large internal memory that allows you to quickly resistance and storage for more than one day worth the test results. You can download the results to a USB flash drive or directly to a computer running PowerDB software. THE DET2/3 complies with IEEE standard 81 and is suitable for earthing and lightning protection testing. It has an IP54 rating during use in real world conditions, as well as IP65 protection (with lid closed). Supporting two, three- and four-pole ground resistance measurements, this tester is an excellent diagnostic tool for anyone performing ground testing, according to the company. Megger is a leading manufacturer and supplier of testing and measuring equipment used in the electricity, construction wiring, and telecommunications industries. Each channel can be switched on/off and can be set for the maximum input signal and the probe you are using. The maximum voltage range for these digital Oscilloscope is usually about ±5V (from -5V to +5V), but it depends on the device. May hardware also has an internal amplifier that allows the use of a lower voltage range (for example, from -0.5V to 0.5V). Note: The second channel is only available in full. Automatic voltage Auto button AUTO selection software automatically sets the input voltage selector according to the signal. This function is limited to high voltage ranges only. Lower voltage selection should still come manually. CHOICE OF AC/DC When selecting a DC signal, the signal is displayed on the as-IR screen (with AC and DC components) by selecting an AC signal that enters the filter (which may be hardware or software according to the device) so that only the AC component is considered on the screen and in computing. Probe Settings If you need to measure a stronger signal The probe has a switch that allows the sideways input signal. If you change the transducer switch to the position x10, the input signal will be cleared by a factor of 10. This means that using the Oscilloscope range ±5V with probe x10, you can see signals up to ±50V (50V/10 = 5V). App is already calculating this scaling factor in the app, so if you're using the x10 probe, just select x10 in the channel configurations and play with the voltage ranges (this will show you the range you can choose). Different types of probes are available on the market (also associated with different units such as Ampere,...). You can add or download new probes in the Settings > probes panel. The DIY probe is available in the list with a link to instructions on how to build it. The probe configuration is stored locally on your phone and is not lost when the app is reinstalled. You can find/backup or restore your probe configuration by accessing the file in the folder: / Download / HScope / Probes.cfg. HScope will automatically read and save the configuration from this file in the probes. ±0.5V, ±1V, ±2.5V, ±5V ±5V, ±10V, ±25V, ±50V Android Bluetooth Oscilloscope. It can be used with any mobile device with android system using This means that there is no wired connection to your phone or tablet, which can guarantee the safety of the device, as well as the transferability. Ostilloscope is the most commonly used, most flexible device for electrical measurements. It visualizes electrical potential over time, generating much more information than other potential and current measurement methods. The following amounts can be measured directly or indirectly by the ostilloscope: DC voltage, AC, DC, AC, time, time delay, phase, phase difference, frequency to view live curves, measurements shall be made. Screenshots Video Advantages Portability Using touchscreen options for app controlling; Easy to use, intuitive. Show audio curve captured from microphone; Accelerometer curve, x y z; Demo mode; Measure: frequency, min/max, peak maximum; Cursors, which are lines that can be moved on the screen to measure the time interval between two points, or the difference between two voltages; Trigger types: Auto, Normal and Single; FFT microphone input; Displays the battery level of the remote device; Displays trigger-level information; Save screen captures from the instrument to your mobile device; Save the alarm data in a file in csv format; Protocol Decoders: SPI I2C Guess bitrate UART 1-Wire link layer IR NEC Math channels In many oscilloscopes wave math is usually just simple calculations like A+B. With an AR-Oscilloscope it means a lot more. Calculated channels can use protocol decoders. Main actions: +, -, x, /, sqrt, x^y, exp, ln, log, abs Trigonometric functions: sin, cos, tan, asin, acos, atan Additional operandids: PI, T (time) mathematical example: exp(-t*125)*sin(2*pi*1000*t) Control the following functions: Change the time / div with two fingers

movement; Change volts / div with two fingers movement; Turn channels on/off; Position of the orisontal signal on the screen; Select trigger type/level; Screen zoom; Full screen mode; Set the trigger to zero by double-clicking; Lock time/diva change; Lock volts/ div to change; User Manual System Requirements Download (Old Versions) with-oscilloscope 5.4 - Download Apk-5.3 - Download Apk File With-Oscilloscope 5.2 - Download Apk File With-Oscilloscope 5.1 - Download Apk File With-Oscillo 5.1 - Download File

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