Fluke aircheck wifi tester manual

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Features Instant-on operation – Powers up in less than three seconds and automatically starts discovering networks, access points (APs), and channel activity. Get answers fast – The one-button AutoTest quickly provides a pass/fail indication of the wireless environment and identifies common problems - for any level of Wi-Fi technicians expertise. Identifies security settings for each Network and Access Point: Open, WEP, WPA, WPA2, and/or 802.1x. Pinpoints Wi-Fi traffic and interference – Shows how much of each channels bandwidth is consumed by 802.11 traffic and interference, and the APs using each channel. Finds rogue APs – Flags unauthorized APs and clients. Helps you hunt them down with the LOCATE function or find them even faster with the optional directional antenna. Supports 802.11a/b/g/n All in one handheld tool. Performs three essential Wi-Fi tests and a pass/fail indication of the wireless environment and identifies common problems - for any level of technicians expertise. Air Quality - Checks for Wi-Fi and non Wi-Fi utilization by channel, plus co-channel interference. Network Quality - Verify coverage, interference, security and ability to connect to specified networks Rogue Access Points - Identify APs not listed in the profile AutoTests are user configurable and based on the multiple profiles which can be stored in AirCheck and selected for different sites or requirements. Results may also be stored for export to AirCheck Manager. AirCheck finds configuration and coverage problems as well as rogue APs. View a list of all physical APs heard by AirCheck or clients connected to a specific AP, and the following information: Channel Signal level AP name or MAC address SSID name (or count of SSIDs for virtual APs) Security / encryption Type of network Find security issues, rogue APs and coverage problems and view a list of all wireless networks heard by AirCheck. Instantly see the following for each network: Signal level Security / encryption Number of APs in network SSID name Type of network Quickly identify rogue APs by setting the authorization status for each AP in AirCheck or AirCheck Manager software. Once set, this allows you to instantly verify authorized devices and determine if rogue devices are present on your network. You may define an APs authorization status two ways: from AirCheck Wi-Fi Tester or the AirCheck Manager software. Quickly track down rogue (unauthorized) and other APs or clients by graphing the signal strength over time, or by using an audible indication which can be muted. Quickly identify AP configuration problems. View the following information for each physical AP: Signal / noise/ signal-to-noise ratio (current and max) SSID and BSSID ACL status Security / encryption Connected clients Verify network availability and access by connecting to a network (SSID) or specified AP using three simple steps: Associate with AP Request IP address from DHCP server PING gateway, DHCP server and user-defined addresses View the process steps on the display and store them in a log for troubleshooting. Quickly test performance and quality of the connection by using the continuous ping response, loss-rate, and connection-range features. Quickly determine if channels are overloaded due to Wi-Fi traffic (displayed in blue) or interference (displayed in gray). Verify channel-usage pattern or overlap and flag illegal use of channels. With AirCheck, you can also detect the presence of interference. Devices that can cause interference include microwave ovens, cordless phones and headsets, BlueTooth® devices, and analog video cameras. Channel Usage Details Find overloaded channels and interference. Drill in further to see the level of Wi-Fi traffic and interference over the last 60 seconds on a selected channel, as well as the access points using this channel. Easily find misconfigured or failed client devices. Quickly drill into client details to see signal level, AP MAC and name, channel, SSID, type and determine the channels and frequencies on which the client is probing. AirCheck Manager software is included with AirCheck and provides two capabilities: the ability to manage AirCheck profiles and manage sessions recorded with AirCheck. Profiles Easily configure, manage, and control the use of your AirCheck – or an entire fleet of them – with the Profiles feature, which includes the following settings: Network configuration settings, including IP addressing and security / encryption Connectivity test settings, including target test devices Password protection for all settings Name and transfer multiple profiles into AirCheck, as needed for different facilities. You can also transfer profiles from AirCheck to AirCheck Manager software. For enhanced security, profiles are password protected and settings are encrypted, both in AirCheck and AirCheck Manager software. This eliminates worry about unauthorized access to your network if your AirCheck tester is lost or stolen. Record Session Document what AirCheck is seeing to share or archive. Create summary or detailed reports allowing you to quickly close a trouble ticket or provide documentation for problem escalation. Press one key to record all collected details for: AirCheck configuration Access points Probing clients Channel usage Connection details Transfer sessions to a PC and easily view/store them using AirCheck Manager software. AirCheck fully supports multiple languages including English, French, German, Spanish, Portuguese, Russian, Japanese, Simplified Chinese, and Korean. Multi-language support includes AirCheck user interface, getting started guide, user manual and supporting AirCheck Manager software, help files and user reports. Live stockTechnical DocumentStatement of Conformity Download the latest software updates from Fluke. Product firmware, software upgrades and standalone applications. You may think we are brainless here at TIA, however we do have the power of the Internet. So any question you ask we can answer like pro’s thanks to Google. Sometimes our Wifi goes down leaving us in a frantic state! Well thanks to the Fluke Networks AirCheck Wi-Fi Tester we can troubleshoot the issue fast. Fluke and Fluke Networks has been around for years building quality test and measurement tools for all kinds of professions. I have used a Fluke multimeter for years and never had one single problem with it. The AirCheck comes with a case , a charger, user manual and a CD, Mac users are out of luck as the AirCheck software is windows only. The unit is rugged and the quality is good. The built in battery allows for 5.5 hours of run-time with a 3 hour charge time. On the bottom is a plug to allow for the optional directional antenna. I will talk about some of the basics. First let me give you a lowdown on the tech jive. AP = Access point SSID = Service Set Identifier – (Name of your Wifi network) ACL = Access Control List Flux Capacitor = No, not really The unit turns on in 3 seconds, is scanning for networks and ready to go, it constantly scans for networks. The first screen that comes up has 4 icons: Networks, Access Points, Channels and Tools. Lets start with networks. This screen shows you all the networks that are transmitting in range. It displays time, signal strength, Wifi channel, SSID, 802.11 A,B,G or N and a notes area. This screen is your basic starting point to start trouble shooting. You can also connect and run some tests including ping from this screen. Microwave Off Microwave On Next we have the channels screen, this is where this unit really shows off. It shows you a live bar graph of every channel in the spectrum. Blue bars indicate Wifi traffic and grey indicate interference. The 2.4ghz spectrum seemed to have the most interference. Clicking select on the channel gives you a more detailed graph and more detailed information. It is so simple to see what channels are clogged and what channels are clear. It’s amazing how much interference is caused by a microwave or a blue-tooth device in discovery mode, it was clear to see. The access points screen gives you names and Mac ID’s of the access points in range. You can also track down rogue access points. Just hit locate and follow the signal as the dB gets closer to zero, the closer you are to the access point. The tools screen has options and a list clients feature. This is awesome because it gives you info about devices that are connected to the access point and also the ability track it down. From this screen you can manage your files set up profiles etc. This is a great device however there is one thing that I did not like and that was that you need to set up a profile on a PC and load it to the device. For in house IT this is great as it keeps passwords safe, however for a consultant that is mobile and has multiple clients it would be great to be able to connect to encrypted networks from the device. This would save the time of having to drag around a laptop. The PC connectivity also allows for downloading your findings to use in reports. Recently I read an article that showed the AirCheck being used by law enforcement to catch child predators by zeroing in on them, even if they are using a compromised network. Fluke Networks really has a great tool here and hopefully with a firmware update the unit will be able to connect to an AP without having to create a profile on a PC first. At $1999 msrp the AirCheck is not cheap, but if you use it daily it will pay for itself fast in time saved troubleshooting. This was just the basics of that the Fluke AirCheck Wifi tester can do for more go to FlukeNetworks.com

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