### Overview

AirCheck integrates all Wi-Fi technologies plus interference detection, channel scanning, and connectivity tests. Quickly troubleshoot the most common Wi-Fi pain points, including:

- Coverage problems
- Overloaded networks or channels
- Interference
- Connectivity problems
- Failed access points
- Rogue access points
- Security settings
- Client problems

In addition to generating instant reports and documentation, AirCheck Manager software allows you to set up multiple profiles and manage network and security settings for a single unit, or an entire fleet of AirCheck testers.

### AirCheck Features

**Supports 802.11a/b/g/n** – All in one handheld tool.

**Instant-on operation** – Powers up in less than three seconds and automatically starts discovering networks, access points (APs), and channel activity.

**Get answers fast** – Intuitive user interface quickly gives you the answers you need in one or two button presses and displays the information on a bright color display.

**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 channel's bandwidth is consumed by 802.11 traffic and interference, and the APs using each channel.

**Finds rogue APs and misbehaving clients** – Flags unauthorized APs. Helps you hunt them down with the LOCATE function or find them even faster with the optional directional antenna.
**Connection tests** – Connects to networks or specific APs using WEP, WPA, WPA2, and/or 802.1x. Acquires an IP address and pings the router, gateway, and user-defined addresses to verify connectivity and network access inside and outside the firewall. Verifies connection quality.

**Designed for the field** – Five-hour battery life. One-handed operation. Rugged design.

**Documents results** – Saves complete results of the current troubleshooting session for download to your PC with the push of a button.

**Easy upgrades** – The mini-USB port allows software upgrades in the field in just minutes. And with Gold support, you’ll automatically receive upgrades at no additional charge.

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AirCheck Functions

**List Networks**
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

**List Access Points**
Find configuration and coverage problems as well as rogue APs. View a list of all physical APs heard by AirCheck including 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

**Channel Usage**
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.

**Access Control Settings**
Quickly determine which access points are known and which are not by setting the authorization status for each AP seen by AirCheck. You may also define access control settings in AirCheck Manager and download them in a profile.
**Locate Access Points**
Track down rogue and other APs by graphing the signal strength over time, or by using an audible indication which can be muted.

**Access Point Details**
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

**Locate Clients**
Track down misbehaving clients by graphing the signal strength over time, or by using an audible indication which can be muted.

**Connect**
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

**AirCheck Manager Software**
This 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.

**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.
Technical Specifications

Environmental

Operating temperature and relative humidity: 32°F to 113°F (0°C to +45°C)
Note: The battery will not charge if the internal temperature of the tester is above 113°F (45°C)

Operating relative humidity (% RH without condensation): 90% (50°F to 95°F; 10°C to 35°C)
75% (95°F to 113°F; 35°C to 45°C)

Storage temperature: -4°F to 140°F (-20°C to +60°C)

Shock and vibration: Random, 2 g, 5 Hz-500 Hz (Class 2) 1 m drop test

Safety: EN 61010-1 2nd edition

Altitude: 4,000 m; Storage: 12,000 m

EMC: FCC Part 15 Class A, EN 61326-1

Certifications and compliance:
- Conforms to relevant Australian standards
- Listed by the Canadian Standards Association
- Conforms to relevant European Union directives
- Conforms to FCC Rules, Parts 15.107, 15.109

Wireless

Receive Channel Frequencies

2.4 GHz Band*: 2412-2484 MHz (Channel 1 to Channel 14)
5 GHz Band*: 5170-5320 MHz, 5500-5700 MHz, 5745-5825 MHz

Transmit Channel Frequencies

2.4 GHz Band**: 802.11b
d 2412-2484 MHz (Channel 1 to Channel 14)
2412-2472 MHz (Channel 1 to Channel 13)
802.11n 40 MHz BW (HT40)
2242-2462 MHz (All legal bonded channel pair combinations)

5 GHz Band**: 802.11a
5190-5230 MHz, 5500-5540 MHz, 5515-5555 MHz (All legal bonded channel pair combinations)

**Notes:
1. AirCheck transmits only on frequencies allowed in the country where it operates.
2. These are the center frequencies of the channels that AirCheck supports.

Regulatory domain: World Mode, 802.11d compliant

External uni-directional antenna:
Frequency range: 2.4 GHz to 2.45 GHz and 4.9 GHz to 5.9 GHz; Minimum gain: 5.0 dBi in the 2.4 GHz band and 7.0 dBi in the 5 GHz band
Connector: Reverse-polarity SMA plug

AirCheck does not support mesh/bridge APs.

AirCheck Manager Software

Supported operating systems:
Windows Vista; Windows XP; Windows 7

Processor: 400 MHz Pentium processor or equivalent (minimum); 1 GHz Pentium processor or equivalent (recommended)

RAM: 96 MB (minimum); 256 MB (recommended)

Hard disk: Up to 500 MB of available space may be required

Display: 1024 x 768 high color, 32-bit (recommended)

Hardware: USB Port

General

Dimensions: 3.5 in x 7.8 in x 1.9 in (8.9 cm x 19.8 cm x 4.8 cm)

Weight: 14 oz (0.4 kg)

Battery: Removable, rechargeable lithium-ion battery pack (18.5 Watt-hrs)

Battery life: Typical operating life is 5.5 hours; Typical charge time is 3 hours

External AC adapter/charger: AC input 90 V to 264 Vac 48 to 62 Hz input power DC output 15 Vdc at 1.2 amps

Display: 2.8 in color LCD (320 x 240 pixels)

Keypad: 12-key elastomeric

LEDs: 2 LEDs (transmit and link Indicators)

Host interface: USB 5-pin mini-B

Wireless antenna: Internal

External antenna port: Input only; Reverse-polarity SMA connector

Ordering Information

Model | Description
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AirCheck | AirCheck Wi-Fi Tester includes: AirCheck tester, USB cable, soft case, Getting Started Guide, and CD with AirCheck Manager software and User Manual
AIRCHECK-5PK* | AirCheck 5 Pack: Includes five (5) AirCheck testers and five (5) free external directional antennas
AIRCHECK-10PK* | AirCheck 10 pack: Includes a bonus free AirCheck tester, so you receive 11 AirCheck testers, and 11 free external directional antennas
ACK-LRPRO-10PK* | Network Tech Troubleshooting Kit w/ACK, LRPRO 10 pack: Includes a bonus free Kit, so you receive 11 ACK-LRPROs
EXTANT-RPSMA | External uni-directional antenna, RSMA connector
WBP-LION | AirCheck Lithium Ion replacement battery
POE-Detector | Power over Ethernet detector
MS-Auto-Ch | Auto charger
DXT-ACUN | AC charger, universal
GLD-ACK | AirCheck Gold support services, 1 yr

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