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Willtek 4920 RF Shield Box



Shielding from electromagnetic interference delivers reliable results

Antenna Coupler and RF Shield Box with accuracy comparable to wire-based tests

Fits all mobile phone types and models

Reduces the expense of factory returns

Extendable for automatic audio testing

Easy to use by its ergonomic design

Rapid and accurate mobile phone testing

Often, when retailers or service centres suspect that a mobile phone is faulty, it must be sent back to the manufacturer for evaluation. This is inefficient, expensive and wastes the customer's time. When connected to one of Willtek's Mobile Service Testers, the Willtek 4920 RF Shield Box and 4910 Universal Antenna Coupler combination provides a rapid, accurate and cost-effective way of testing mobile phones on-site.

If the phone is trouble-free it can then be returned to the customer in a matter of moments. This ensures a typical ROI (return on investment) of just a few months and assures customers of a faster service and enhanced peace of mind.

Universal support

The 4920 RF Shield Box is large enough to accommodate even the most bulky mobile phones, while the 4910 Universal Antenna Coupler connects to all types and models.

Using the two together delivers rigorous mobile phone verification, which provides accuracy levels comparable to the results achieved with cable-based testing, but without the usual high costs. An optional removable metal plate is available to accommodate unique connectors.

The additional 4923 RF Shield Audio Option extends RF reliability to the area of audio testing.

Interference free

The RF 4920 Shield Box/4910 Universal Antenna Coupler combination is easy to use. The user simply has to put the phone inside the box, attach the phone to the 4910 Universal Antenna Coupler and begin the test – completely cable-free.

The box is well-shielded, so there will be no interference from other phones or base stations outside the box. A special double-shielded RF cable blocks interfering signals coupling into the connection from the 4920 RF Shield Box to the tester. To minimise reflections inside the RF Shield, broadband pyramid absorbers are used. These absorbers are more effective than most available on the market today and help to eliminate unwanted reflections and deliver a more reliable test result.

Ergonomic design

The ergonomic design of the 4920 RF Shield Box provides convenient access to the phone under test (U.S. Patent 429,470). It is at home in service environments or in mobile phone factories.

The 4910 Universal Antenna Coupler can be removed easily so that the box can also be used with any mobile cable adapter or specific mobile test fixture. A customizable rear panel allows to add audio, control, power and RF signals feed through.

More consistent results

The latest Willtek 4920 RF Shield Box offers new dimensions (405 x 260 x 200 mm). Its new size leaves sufficient room above the device under test to prevent unwanted reflection, minimize loss factors, and produce even more consistent test results.

Wireless mobile testing made easy

Although both devices can be used successfully in isolation, the 4920 RF Shield Box and 4910 Universal Antenna Coupler provide an ideal, easy-to-use solution to the problem of accurately on-site testing mobile phones. Now, companies can deploy a system that reduces unnecessary factory returns and maximizes end-customer satisfaction.

Disclaimer: Fingerstocks and gas springs are wear-out parts and are not subject to Willtek's standard product warranty. These spare parts can be ordered from Willtek; see ordering information for details.

Technical specifications

Shielding factor	
> 70 dB at 800 MHz to 1000 MHz	
> 60 dB at 1700 MHz to 2200 MHz	
Reflected power of pyramidal absorber	
-8 dB at 900 MHz	
-18 dB at 2000 MHz	

Connectors

External	TNC
Internal	RF Click

Mechanical specifications

Dimensions (L x W x H)	
outside	405 x 260 x 200 mm
inside	330 x 180 x 135 mm
Weight	3.8 kg

Ordering information

4920 RF Shield Box (N)	M 248 342
incl. RF cable, 150 cm (N-TNC)	
fits 420x, 440x	
4924 RF Shield Box (TNC)	M 248 340
incl. RF cable, 150 cm (TNC-TNC)	
fits 410x, 430x, 435x	
TNC-Bulkhead Adapter	M 886 235
Rear Panel for customization	M 300 850
RF Shield Box (N) Package	M 248 343
incl. 4910 Universal Antenna Coupler and 4920 RF Shield Box (N)	
fits 420x, 440x	
RF Shield Box (TNC) Package	M 248 399
incl. 4910 Universal Antenna Coupler and 4924 RF Shield Box (TNC)	
fits 410x, 430x, 435x	
4923 RF Shield Box Audio Option	M 248 420
RF Shield Box gas springs	M 248 965
RF Shield Box finger stocks	M 248 964

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