

A434 RF Master 4GHz

Protek is ready to provide you with good solution and good service that you need anytime and anywhere.

- ▶ The Economical Solution
- ▶ Ideal for Field Testing
 - Cell Site Certification
 - Solving Service Problems
- ▶ Lightweight and Easy-to-use





GENERAL OVERVIEW

A large number of abnormal cell site problems are typically caused by the antenna system, cable and connectors, or both. It's important to have the right instrument available when either servicing or certifying cell sites for operation.

The A434 RF master is the lightweight portable diagnostic tool needed to accurately detect operational problems. The A434 RF master has all of the measurement functions necessary to accurately verify the site's antenna system from VSWR to power measurements.

In addition, the A434 RF master makes distance-to-fault measurements to accurately pinpoint the fault's location. Touch panel operation and a 7 inch wide TFT color display allows measurements to be easily made and displayed on the A434 RF master.

Its application specific software allows for the user to easily compare and analyze measurements and generate professional reports. A rechargeable and field installable lithium-ion battery for operating longer than three hours is part of the A434 RF master.

MEY MEARSUREMENTS

- ▶ VSWR
- ▶ Distance to Fault
- ▶ Cable Loss
- ▶ Power (average and peak)

FEATURES

- ▶ A portable lightweight instrument <2.5kg(5.5lbs)
- ▶ Handheld operation
- ▶ Built-in world-wide signal standards and frequency channels
- ▶ 7 inch TFT color display (viewable in daylight)
- ▶ Easy front pannel touch operation
- ▶ Superior immunity to RF interference
- ▶ Up to 1001 data points to locate long range problems
- ▶ External USB memory
- ▶ 6 markers
- ▶ Saves up to 20 user setups
- ▶ Application software for data management
- ▶ Saves up to 400 measurement traces
- ▶ Saves up to 100 measurement screens
- ▶ Alphanumeric labeling of saved measurements
- ▶ Automatic Time/Date stamp of saved data
- ▶ Rechargeable field replaceable lithium-ion battery

Protek A434 RF Master 4GHz

7" Color LCD
Daylight viewable
high resolution LCD
display

VSWR
Measure impedance
matching

DTF
Measure distance to
fault location

CABLE LOSS
Measure cable
insertion loss

POWER METER
Measure transmission
power

SYSTEM
Identify and/or revise
system information or
upgrade firmware

CAL
Calibration on selected
frequency band in
VSWR, DTF and Cable
Loss measurements

POWER&LED
Power On/Off
Green LED:
Power On Status
Red LED:
External power

LOAD
Recall saved traces to
compare with current
or other saved traces

MARKER
Support six markers for
each trace

TRACE
Capture up to 4 traces
Assign saved trace to
Trace CH

FREQ / DIST
Set frequency ranges in
VSWR and Cable Loss
mode.
Select standard or custom
frequency band
Select standard cables or
register custom cables in
DTF mode.

TRACE POINT
Select trace point among
126,251,501 or 1001

PEAK
Move marker
position to Peak,
Valley, Next Peak
Right or Next Peak
Left

AUTO SCALE
Adjust Y scale on
Screen for optimal
display of traces

ENTER
Input numeric
values

Screen Menu
Display selectable
menu in connection
with function keys or
soft keys

Soft Key
Select menu displayed
on the screen

Save
Save captured traces
in the system

ESC
Cancel inputs or move
to upper menu

KNOB / ARROW
Move marker positions
or items on the table list

► Top



Signal in/out and external interface ports

► Rear



Rugged and convenient design for field applications

► Side

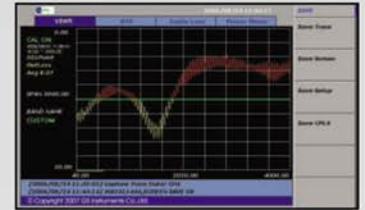
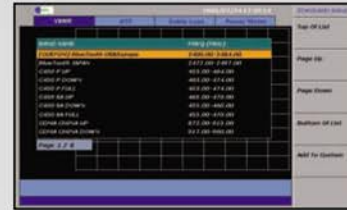
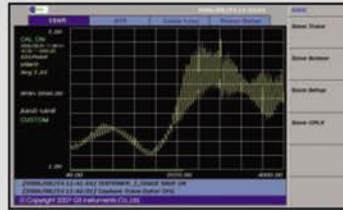


Field replaceable battery on the right side and hand strap on the left side

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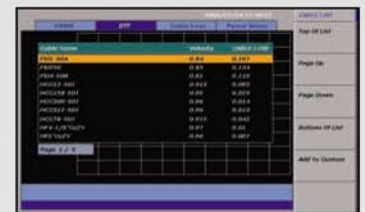
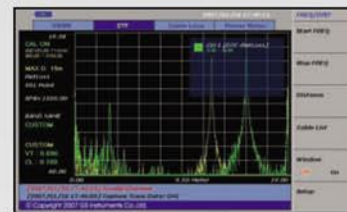
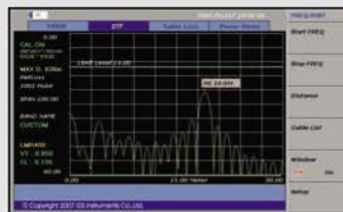
Main Function VSWR Tester

- Frequency Range: 25MHz~4GHz
- Dynamic Range: 60dB
- 1001 High Resolution Mode
- Built-in over 80 worldwide signal standards
- Register user defined bands in
- Custom Band
- Alarm Limit Line



Main Function DTF Analyzer

- Distance: Up to 1,250m
- Resolution: Distance/450
- Dynamic: 60dB
- Built-in over 95 standard cable characteristics
- Register user defined cables to Custom Cable



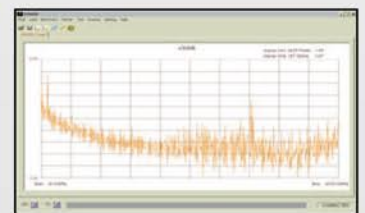
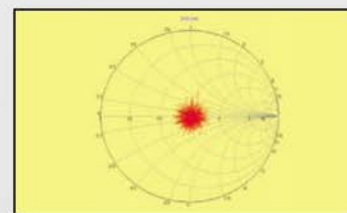
Main Function Power Meter

- Plug and Play type power sensor
- Sensor Type
 - . Average Power Sensor
 - . Peak Power Sensor



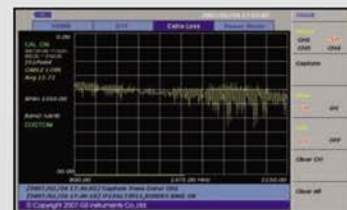
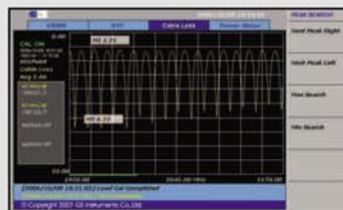
Main Function Application Software

- Support Smith Chart
- VSWR-DTF conversion
- Load, Save and transform file formats
- Register or edit user defined band to Custom Bands
- Register or edit user defined cables to Custom Cable List
- Edit charts
- Generate and print reports



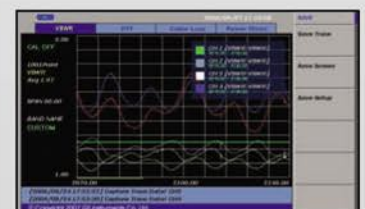
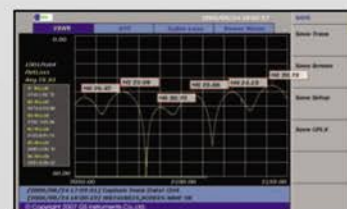
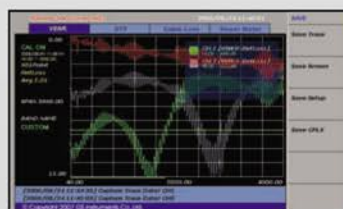
Main Function One Port Cable Loss

- Dynamic Range : 0 ~ 30dB
- Alarm Limit Line



Supplementary Functions

- Capture up to 4 traces
- Overlay up to 4 traces in one screen
- Support up to 6 makers simultaneously



SPECIFICATIONS

General Specification	Max Input Power	±25dBm	
	Frequency Accuracy	<±75ppm	
	Frequency Resolution	100kHz	
	Impedance	50Ω	
	Test Port	N Female	
	Test Curve Storage	Up to 400	
	Screen Storage	Up to 100	
	Setup Storage	Up to 20	
VSWR Specification	Frequency Range	25~4000MHz	
	Number of data points	126, 251, 501, 1001	
	Return Loss	Range: 0~60dB	
	VSWR: Range	1~65	
	Scan Speed	1, 2, 3.5, 7sec for each data points	
Cable Loss Specification	Frequency Range	25~4000MHz	
	Cable Loss: Range	0~30dB	
DTF Specification	Distance	Range: 0~1250m(4125ft)	
	Resolution	distance/450 (m/ft)	
	Return Loss	Range: 0 to 60dB	
	VSWR	Range: 1~65	
Immunity to Interfering Signals	On Frequency	±10dBm	
	On Channel	±20dBm	
RF Power Meter (Option)	Sensor Type	Average, Peak	
	Average Power Sensor	Frequency Range	20~3000MHz
		Dynamic Range	0~30dB
	Peak Power Sensor	Frequency Range	20~4000MHz
		Dynamic Range	0~40dB
	Accuracy	±10%	
	Test Port	Precision N Female	
Miscellaneous	Dimension	260x190x60mm(10.2"x7.5"x2.4")	
	Weight	<2.5kg(5.5lbs)includes battery	
	Battery	Li-Ion (3hr operating time after full charging)	
Environmental Condition	Operating Temperature	0~±50°C (+32~+122°F)	
	Storage Temperature	-40 ~80°C(-40~+176°F)	
	Humidity	95% NO Condensation	

ORDERING INFORMATION

Standard Accessories

- GC724-50541: Soft Carrying Case
- GC724-50522: AC-DC Adapter
- GC724-50514: Serial Interface Cable
- GC724-50513: 128MByte USB Memory
- GC724-50523: DC Car Adapter
- GC724A User's Manual
- GC724A Quick Reference Guide
- GC724A Application Software (CD ROM)

Optional Accessories

- GC724-50511: Combo Calibration Kit, 40dB, 4GHz
- GC724-50531: RF Ref. Cable, 1.5m,N(m)-N(f)
- GC724-50532: RF Ref. Cable, 3.0m,N(m)-N(f)
- GC724-50551: Average Power Sensor, 20MHz~3.0GHz,0~30dBm
- GC724-50552: Peak Power Sensor, 20MHz~ 4.0GHz, 0~40dBm
- GC724-50542: Hard Case



Specifications and other information shown on this product catalogue are subject to change without notice.



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