

User Interface

Display	12" color LCD, sun light readable w/ back light
Controls	Touch-screen
Antenna Couplers	TX and RX
Coupler Loss Compensation	0 to 19.9 dB

TX/RX Direct Connection Ports

Impedance	50 Ω
SWR	
TX	2.5:1
RX	1.5:1
Connector	TNC x 2 (single TX/RX channel)

Receiver

RF Input Frequency	
Range	4.20 GHz to 4.40 GHz (ITAR Limited)

FMCW/CDF FMCW	
Frequency Measurement	
Range	4.20 GHz to 4.40 GHz (ITAR Limited)
Accuracy	± 5 MHz
FM Sweep Rate Measurement	
Range	50 Hz to 400 Hz
Accuracy	± 5 Hz
FM Deviation	
Range	± 20 MHz to 100 MHz
Accuracy	± 5 MHz

Pulse	
Frequency Measurement	
Range	4.20 GHz to 4.40 GHz (ITAR Limited)
Accuracy	± 10 MHz
TX Power Measurement	
Range	1 mW (0 dBm) to 300 W (+54 dBm) peak
Accuracy >50 ns	± 2 dB
Accuracy <50 ns	± 3 dB
TX Pulse Width Measurement	
Range	20 ns to 400 ns
Accuracy	± 10 ns
TX Pulse PRF Measurement	
Range	2 kHz to 30 kHz
Accuracy	$\pm 5\%$

Generator

Linear Altitude Simulation	
Range FMCW/CDF	-20 to 8,000 ft.
Range Pulse	50 to 8,000 ft.*
* Note: lower altitude limit determined by connecting RF coax cable length	
Resolution	1 ft. Increments
Accuracy	± 1.5 ft or 2% RMS (whichever is greater)

Linear Altitude Rate	
Range	1 to 120,000 fpm
Resolution	1 fpm

Test Cable (automatic compensation)

Test Cable Length	1 to 100 ft.
Test Cable Loss	0 to 9.9 dB

AID (direct connect)	
Fixed Selectable	0, 20, 40, 57 or 80 ft.
User Entered	0 to 99 ft.

Altitude Offset	-25 to 100 ft.
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RF Level	
Manual Mode (FM/CW)	
Range	-84 to +9 dBm (dependent upon cable loss, coupler loss and external attenuation)
Accuracy	± 4 dB

Manual Mode (Pulse)	
Range	-76 to +17 dBm (dependent upon cable loss, coupler loss and external attenuation)
Accuracy	± 4 dB
Auto Mode	TX Power – Height Path Loss- Scattering Loss- Offset
RF Level Offset (auto)	-20 to +20 dB

RF Path Loss Simulation	0 to 8,000 ft.
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Frequency Stability	± 1 ppm
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Environmental

Test Set	
Operating Temperature	-20° to $+55^{\circ}$ C
Storage Temperature	-30° to $+71^{\circ}$ C
Altitude	$\leq 10,000$ meters

Supplied External AC to DC Converter	
Use	Indoors
Altitude	$\leq 10,000$ meters
Operating Temperature	5° to 40° C
Storage Temperature	-20° to 71° C

Physical Characteristics

Size:	
Test set only	10.6"H x 13.9"W x 3.4"D 27.0 cm x 35.5 cm x 8.7 cm
w/ standard access.	12" H x 30.5"W x 22.5"D 30.5 cm x 77.5 cm x 57.2 cm
Weight:	15.5 lbs. (test set only) 62 lbs. (shipping weight)

Certifications

Test Set

Operational Humidity	MIL-PRF-28800F, Class 2
Storage Humidity	MIL-PRF-28800F, Class 2
Vibration Limits	MIL-PRF-28800F, Class 2
Shock, Functional	MIL-PRF-28800F, Class 2
Transit Drop	MIL-PRF-28800F, Class 2
Drip Proof	MIL-PRF-28800F, Class 2
Dust	MIL-PRF-28800F, Class 2
Salt	MIL-PRF-28800F, Class 2
Explosive Atmosphere	MIL-STD-810F, Method 511.4, Procedure 1
Safety Compliance	UL-61010:2001 CSA 22.2 No 1010.1

WEEE

ROHS

EMC

Emissions

MIL-PRF28800F Class 2
EN 61326:1998 Class A
EN 61000-3-2
EN 61000-3-3

Immunity

MIL-PRF28800F Class 2
EN 61326:1998 Class A

External AC-DC Converter

Safety Compliance

UL 1950 DS
CSA 22.2 No. 234
VDE EN 60 950

EMI/RFI Compliance

FCC Docket 20780 Curve "B"
EMC EN 61326

Transit Case

Drop Test

FED-STD-101C Method 5007.1
Paragraph 6.3, Procedure A,
Level A

Falling Dart Impact

ATA 300 Category I

Vibration, Loose Cargo

FED-STD-101C Method 5019

Vibration, Sweep

ATA 300 Category I

Simulated Rainfall

MIL-STD-810F Method 506.4,
Procedure II of 4.1.2
FED-STD-101C Method 5009.1
Sec 6.7.1

Immersion

MIL-STD-810F Method 512.4

This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.

For further information please contact:

Cobham AvComm
10200 West York Street
Wichita, KS 67215-8935 [USA]
Phone: (316) 522-4981
Fax: (316) 524-2623
AvComm.TechSales@cobham.com

or contact your Cobham AvComm
sales office