

Data Sheet

VIAVI

3550R

Touch-Screen Radio Test System

General Specifications

| RF Signal Generator | |
|--|--|
| Frequency | |
| Range | 2 MHz - 1 GHz (usable from 500 kHz) |
| Resolution | 1 Hz |
| Output Level | |
| Range | T/R Port: -50 to -125 dBm / 707107 μ V to 0.126 μ V ANT Port: -30 to -90 dBm / 7071.068 μ V to 7.071 μ V SWR Port: -5 to -65 dBm / 125743.344 μ V to 125.743 μ V |
| Resolution | Step size 0.1 dB |
| Accuracy | \pm 2 dB; \pm 1.5 dB typical \pm 3 dB (<-100 dBm); \pm 1.5 dB typical |
| SSB Phase Noise | |
| -80 dBc / Hz at 20 kHz offset | |
| -95 dBc / Hz at 1 GHz typical at 20 kHz offset | |
| Spurious | |
| Harmonics | -30 dBc, -42 dBc typical |
| Non-Harmonics | -40 dBc, -50 dBc typical |
| Residual FM | |
| <40 Hz in 300 Hz to 3 kHz BW; 6 Hz typical | |
| Residual AM | |
| <5% in 300 Hz to 3 kHz BW; 0.65% | |
| Port Input Protection | |
| ANT Port | +20 dBm typical |
| SWR Port | +20 dBm typical |
| T/R Port | +44 dBm typical |
| Port VSWR | |
| ANT Port | <1.5:1 |
| SWR Port | <1.5:1 |
| T/R Port | <1.25:1 |
| FM Modulation (GEN 1 and GEN 2) | |
| <i>Modulation Frequency Rate</i> | |
| Range | 0 Hz to 20 kHz |
| Resolution | 0.1 Hz |

| | |
|--|--|
| Accuracy | Timebase \pm 2 Hz |
| FM Modulation | |
| Range | Off, 0 Hz to 100 kHz |
| Resolution | 1 Hz |
| Accuracy | \pm 10% (2 kHz to 50 kHz deviation, 150 Hz to 3 kHz rate) Typically <4% (5.6 kHz deviation, 1 kHz rate) |
| Total Harmonics Distortion | 3%, 1% typical (1 kHz rate, >2 kHz deviation, 300 Hz - 3 kHz BP filter) |
| External FM Modulation | |
| <i>Microphone In</i> | |
| Input Range | Range 1: 2-15 mVrms (8 mVrms nominal) MIC E-OPEN, F-GND Range 2: 35-350 mVrms (100 mVrms nominal) MIC E-GND, F-OPEN Range 3: 2-32 mVrms (20 mVrms nominal) MIC E-OPEN, F-OPEN |
| Frequency Range | 300 Hz to 3 kHz |
| Deviation Range | Off, 0 Hz to 80 kHz |
| Modulation Accuracy | \pm 20% (300 Hz to 1.2 kHz) \pm 30% (>1.2 kHz) |
| Slope | Positive voltage yields positive deviation |
| <i>Audio In</i> | |
| Switchable Loads | 150 ohms, 600 ohms, 1 K ohms, High-Z DIV 10 (1 K ohms, 30 Vrms maximum input) |
| Input Levels | 0.05 to 3 Vrms |
| Frequency Range | 300 Hz to 5 kHz |
| Level Sensitivity | 1 kHz / 35 mVrms |
| Slope | Positive voltage yields positive deviation |
| AM Modulation (GEN 1 and GEN 2) | |
| <i>Modulation Frequency Rate</i> | |
| Range | 0 Hz to 20 kHz |
| Resolution | 0.1 Hz |

| | |
|--|--|
| <i>Modulation Frequency Rate - Continued</i> | |
| Accuracy | Timebase ± 2 Hz |
| <i>AM Modulation</i> | |
| Range | Off, 0 to 100% |
| Resolution | 0.1% |
| Modulation Accuracy | 10% off setting, 150 Hz to 5 kHz rate, 10% to 90% modulation (based on \pm peak / 2 measurement) |
| Total Harmonics Distortion | 3% (20% to 90% mod, 1 kHz rate, 300 Hz to 3 kHz BP filter) |

External AM Modulation

Microphone IN

| | |
|------------------|---|
| Input Range | Range 1: 2-15 mVrms (8 mVrms nominal) MIC E-OPEN, F-GND Range 2: 35-350 mVrms (100 mVrms nominal) MIC E-GND, F-OPEN Range 3: 2-32 mVrms (20 mVrms nominal) MIC E-OPEN, F-OPEN |
| Frequency Range | 300 Hz to 3 kHz |
| Modulation Range | 0% to 80% |

Audio IN

| | |
|-------------------|--|
| Switchable Loads | 150 ohms, 600 ohms, 1 K ohms, High-Z DIV 10 (1 K ohm, 30 Vrms maximum input) |
| Input Levels | 0.05 to 3 Vrms |
| Frequency Range | 300 Hz to 5 kHz |
| Level Sensitivity | 1% / 35 mVrms nominal |

AFGEN 1 and AFGEN 2

Frequency

| | |
|------------|--|
| Range | 30 Hz to 5 kHz (spec) 0.0 Hz to 20.0 kHz (usable) |
| Resolution | 0.1 Hz |
| Accuracy | Timebase ± 2 Hz |

Output Level

| | |
|------------|--|
| Range | 0 to 1.57 Vrms (into 600 Ω) |
| Resolution | 0.01 Vrms |
| Accuracy | $\pm 10\%$; Typical 3% |
| Distortion | 3% (1 kHz rate, sine, 300 Hz to 3 kHz); 1% typical |

RF Receiver

Frequency

| | |
|------------|--------------------------------------|
| Range | 2 MHz to 1 GHz (usable from 750 kHz) |
| Resolution | 1 Hz |
| Accuracy | Same as timebase |

Input Amplitude

| | |
|--|--|
| Minimum Input Level, Audio Sensitivity | ANT: -80 dBm (22.4 μ V), typical 10 dB SINAD (-110 dBm with preamp) T/R: -40 dBm (2236 μ V), typical, 10 dB SINAD |
|--|--|

| | |
|--------------------------|--|
| Usable Input Level Range | ANT: -60 dBm (-80 dBm with RF Amp On) to -10 dBm (RF Error, Distortion, Modulation, AF Counter and AF Level) ANT: -90 dBm (-110 dBm with RF Amp On) to -10 dBm (RSSI) T/R: -20 dBm (RF Error, Distortion, Modulation, AF Counter and AF Level) T/R: -50 dBm to maximum input level (RSSI) |
| Maximum Input Level | ANT: +20 dBm / 0.1 W for 10 seconds T/R: +43 dBm / 20 W (FM) and +37 dBm (AM) +47 dBm / 50 W (FM) and +41 dBm (AM) with 50 W attenuator +51.76 dBm / 150 W (FM) and 45.76 dBm (AM) with 150 W attenuator |

AM / FM Demodulation

| | |
|--------------------------------|--|
| IF Bandwidth | FM: 5 kHz, 6.25 kHz, 8.33 kHz, 10 kHz, 12.5 kHz, 25 kHz, 30 kHz, 100 kHz, 300 kHz AM: 5 kHz, 6.25 kHz, 8.33 kHz, 10 kHz, 12.5 kHz, 25 kHz, 30 kHz |
| Audio Filters Bandwidth | 0.3-20 kBP, 0.3-5 kBP, 0.3-3 kBP, 0.3 kHP, CCITT BP, C-Wt BP, 15 K LP, 5 K LP, 3 K LP, 0.3 K LP, 0.02 kHP, 0.02-3 kBP, 0.02-5 kBP |
| Audio Output Level Sensitivity | FM: (3 Vrms / kHz Dev) * IF BW (kHz) $\pm 15\%$ AM: 7 mVrms / % AM $\pm 15\%$ |
| Speaker Output | 75 dBA min at 0.5 m, 600 - 1800 Hz, max volume) |

Volume Control

| | |
|--------------|-----------|
| Range | 0 to 100 |
| LO EMISSIONS | > -50 dBc |

RF Frequency Error Meter

| | |
|------------|---------------------|
| Range | ± 200 kHz |
| Resolution | 1 Hz |
| Accuracy | Timebase ± 2 Hz |

RSSI Indicator (RF Power Within Receiver IF Bandwidth)

| | |
|-------------------------------------|--|
| Display Range | dBm: -120 dBm to +43 dBm (+53 dBm with Ext Attn dB set to 20 dB) Watts: 10 pW to 20 W (200 W with Ext Attn dB set to 20 dB) |
| Usable Meter Reading RF Level Range | T/R Port: -50 dBm to +43 dBm ANT Port (without RF amp on): -90 dBm to -10 dBm ANT Port (with RF amp on): -110 dBm to -10 dBm |
| Resolution | 0.01 dBm |
| Accuracy | ± 3 dB; 1.5 dB typical (> -50 dBm into T/R, > -90 dBm into ANT or > -110 dBm into ANT with RF Amp On) |

RF Power Meter (Broadband RF Power Into T/R Port)

| | |
|---------------------|--|
| Display Range | 0 to 43 dBm (0 to 20 W) |
| Minimum Input Level | 0.10 W / +20 dBm |
| Maximum Input Level | 20 W / 43 dBm for 10 minutes at +25° C or until thermal alarm sounds |
| Resolution | 0.01 W / 0.1 dBm |
| Accuracy | ± 1 dB; 0.5 dB typical |

| FM Deviation Meter | |
|-------------------------------------|--|
| Range | 500 Hz to ± 100 kHz |
| Modes | Peak+, Peak-, (Peak+ - Peak-) / 2 RMS, dBr |
| Resolution | 0.1 Hz |
| Accuracy | $\pm 10\%$, 6% typical; of reading 500 Hz to 100 kHz deviation $\pm 5\%$, 4% typical 1 kHz to 10 kHz deviation, 150 Hz and 1 kHz rate |
| AM Percent Meter | |
| Range | 5% to 100% |
| Modes | Peak+, Peak-, (Peak+ - Peak-) / 2 RMS, dBr |
| Resolution | 1% |
| Accuracy | $\pm 5\%$ of reading, 1 kHz rate, 30% to 90% modulation, 3 kHz LPF; 2% typical |
| Ant-Cable Test | |
| Frequency Range | 2.0 MHz to 1000.0 MHz |
| Span Range | 10.0 MHz to 998 MHz |
| Start Range | 2.0 MHz to 990.0 MHz |
| Stop Range | 12.0 MHz to 1000.0 MHz |
| Frequency Resolution | 0.1 MHz |
| Markers | 6 |
| Immunity to Interfering Signal | Typically -30 dBm |
| SWR Measurement | |
| VSWR Range | 1.00 to 20.00 |
| Resolution | 0.01 |
| VSWR Accuracy | $\pm 20\%$ of SWR readings (calibrated) <300 MHz; typical $\pm 30\%$ of SWR readings (calibrated) ≥ 300 MHz; typical |
| Return Loss (RL) Measurement | |
| Range | 0.0 to -50.0 dB |
| Resolution | 0.01 dB |
| Cable Loss Measurement | |
| Range | 0.0 to -50.0 dB |
| Resolution | 0.01 dB |
| DTF Measurement | |
| Measurement Range | 3 ft to 328 ft 1 m to 100 m |
| Return Loss Bridge | 0.0 to -50.0 dB |
| Cable Types | USER, RG-8x, RG-8, RG-8foam, RF-8A, RF-55, RF-55A, RF55B, RG-58, RG-58foam, RG-58A, RG-58B, RG-58C, RG-174, RG-213, RG-214, RG-223, RG-400 |
| Velocity | 0.00 to 1.00, automatically selected to cable type |
| Loss | 0.00 to 100.00 dB per 100 ft, automatically selected by cable type |
| Est Length | 40, 80, 200 or 400 ft 12.2, 24.4, 61 or 121.9 m |

| Audio Meters | |
|---------------------------------------|--|
| <i>Audio Input (Audio IN)</i> | |
| Source | BNC, Input on front panel |
| Frequency Range | 300 Hz to 10 kHz |
| Level Range | 0.2 Vp-p to 5 Vp-p |
| SINAD Meter (with 1 kHz Audio) | |
| Measurement Sources | Audio in, demod |
| Audio Frequency | 1 kHz |
| Display Range | 0 to 40 dB |
| Resolution | 0.1 dB |
| Accuracy | ± 1.5 dB from 8 to 40 dB; ± 1.0 dB typical |
| Distortion Meter | |
| Measurement Sources | Audio in, demod |
| Audio Frequency | 1 kHz |
| Reading Range | 0% to 100% |
| Resolution | 0.1% |
| Accuracy | ± 10 from 1% to 20%; ± 1 count |
| Audio Frequency Counter | |
| Input Demodulation Range | FM: 15 Hz to 20 kHz (IF BW set appropriately for received modulation BW) AM: 100 Hz to 10 kHz (IF BW set appropriately for received modulation BW) Audio Input Level: 10 mVp-p to 5 Vp-p |
| Audio Input Range | 15 Hz to 20 kHz |
| Ext Audio Input | 10 mVp-p to 5 Vp-p |
| Resolution | 0.1 Hz |
| Accuracy | ± 1 Hz |
| Audio Frequency Level Meter | |
| Measurement Sources | Audio in, DVM |
| Frequency Range | 200 Hz to <5 kHz |
| Input Level | Audio in 10 mV rms to 3 V rms (x1) 1 V rms to 30 V rms (/10) DVM 10 mV rms to 3 V rms (x1) 1 V rms to 30 V rms (/20) |
| Display Unit Resolution | Volts 0.001 V mV 0.001 mV dBuV 0.001 dBuV dBm 0.001 dBm Watts 0.001 W |
| Accuracy | $\pm 5\%$; $\pm 2\%$ typical; Audio In |
| Channel Analyzer (Optional) | |
| Frequency | |
| Range | 2 MHz to 1 GHz (Usable from 250 kHz) |
| Resolution | 1 Hz |
| Accuracy | Same as timebase |

| Frequency - Continued | |
|---|---|
| Span | 10 kHz to 5 MHz in 1, 2, 5 sequence |
| Wide Analyzer | 10 kHz to 50 MHz in 1, 2, 5 sequence |
| Effective RBW | |
| Range | 19 Hz to 25 kHz (Effective RBW calculated based on FFT window type and Span) |
| Power Bandwidth | |
| Offset Range | 0 to ± 2.495 MHz |
| Bandwidth Range | 1 kHz to 5 MHz in a 1, 2, 5 sequence (maximum bandwidth is the selective span) |
| Power Bandwidth Display Range | -137 dBm to +43 dBm |
| Power Bandwidth Display Resolution | 0.001 dBm |
| Power Bandwidth Accuracy | ± 3 dB (>-50 dBm into T/R, >-90 dBm into ANT or >-110 dBm into ANT with RF Amp On) |
| Markers | 6 |
| Displayed Average Noise Level (DANL) | -120 dBm (typical, 10 kHz span) -14 dBm with pre-amp enabled |
| Oscilloscope (Optional) | |
| Source | DVM, Audio In, Demod |
| Traces | One |
| Markers | Six |
| Maximum Input Level | +30 Vrms |
| Trigger | |
| Type | Auto, Norm |
| Edge | Rising, Falling |
| Trigger Level Range | -30 to +30 Vrms |
| Horizontal Range | 0.5 ms / div to 0.1 sec / div |
| Accuracy | 3% of full scale |
| Vertical Range | |
| FM demod | 0.1 kHz to 50 kHz / div in a 1, 2, 5 sequence |
| AM demod | 5, 10, 20, 50% / div |
| DVM and Audio in | 10 mV to 10 V / div in a 1, 2, 5 sequence |
| Accuracy | 10% of full scale |
| Coupling | DVM Input: AC, DC and GND Audio in: AC |
| Input Impedance | DVM Input: 1 M Ω Audio in: 150 Ω , 600 Ω , 1 K Ω , High-Z, Div by 10 |
| Bandwidth | 5 kHz |
| Occupied Bandwidth (Optional) (Requires Channel Analyzer Option) | |
| Frequency | |
| Range | 2 MHz to 1 GHz (Usable from 250 kHz) |

| Bandwidth Measurement Range | |
|---|---|
| Percentile | 1.0% to 100%, selectable in 0.1% steps |
| OBW Display | |
| Span Range | 10 kHz, 20 kHz, 50 kHz, 100 kHz, 200 kHz, 500 kHz, 1 MHz, 2 MHz, and 5 MHz; selectable |
| OBW Power Resolution | 0.01 dB |
| OBW Frequency Resolution | 1 Hz (step size = span range / 128) |
| Accuracy | |
| OBW Power | ± 3 dB (± 1.5 dB typical) |
| OBW Frequency | $\pm 1\%$ of span range (Hanning window selected) |
| Modes | Live |
| Timebase | |
| Temperature Stability | ± 0.15 ppm at -20° C to 70° C |
| Aging | 0.5 ppm / First Year 0.3 ppm / After First Year |
| Warm-up Time | 3 min |
| Environmental / Physical | |
| Overall Dimensions | 231 mm x 285 mm x 70 mm (W X L X D) 9.1 in x 11.2 in x 2.8 in |
| Weight | 8.3 lbs (3.75 kg); 12 lbs (5.4 kg) with accessories |
| Temperature | Storage: 51° C to +71° C storage Note: Battery must not be subjected to temperatures below -20° C, nor above +60° C |
| Operation | 3550R - DC only Operation: -20° C to +55° C (battery removed, contingent upon applied RF power over time). 3550R Battery Operation: -20° C to +40° C (typical based on internal temperature rise and usage of the instrument). Note: Battery to be charged as temperature between 0° C to +45° C |
| Altitude | 4600 M - MIL-PRF-28800F Class 2 |
| Humidity | 95% Maximum (Non-condensing) MIL-PRF-28800F Class 2 |
| Shock, Functional | 30 G - MIL-PRF-28800F Class 2 |
| Bench Handling | MIL-PRF-28800F Class 2 |
| Vibration | MIL-PRF-28800F Class 2 |
| AC Input Power (AC to DC Converter / Charger Unit) | |
| AC Input Voltage Range | 100 to 240 VAC, 1.5 A max, 47 Hz - 63 Hz |
| Operating Temperature | 0° C to +40° C |
| Storage Temperature | -20° C to +85° C |
| EMI | EN55022 Class B, EN61000-3-2 Class D |
| Safety | UL 1950, CSA 22.2 No. 234 and No. 950, IEC 950 / EN 60950 |

| DC Input Power | |
|--|---------------------|
| DC Input Voltage Range (DC INPUT CONNECTOR) | 11 VDC to 32 VDC |
| DC Power Input, Max (DC INPUT CONNECTOR) | 55 W |
| DC Power Input, Nominal (DC INPUT CONNECTOR) | 25 W |
| DC Fuse Requirement (DC INPUT CONNECTOR) | 5 A, 32 VDC, Type F |

| Battery | |
|------------------------|--|
| Battery Type | Lithium Ion (Li Ion) battery pack Note: Battery must not be subjected to temperatures below -20° C, nor above +60° C |
| Battery Operation Time | 100% Backlight: 3 1/2 hours typical 40% Backlight: 4 hours typical Minimum Backlight: 4 1/2 hours typical |
| Battery Charge Time | 4 hours Note: Battery to be charged at temperatures between 0° C and +45° C only |

Compliance

| EMC | |
|-----------|---|
| Emissions | MIL-PRF-28800F EN61326: 1998 Class A EN61000-3-2 EN61000-3-3 |
| Immunity | MIL-PRF-28800F EN61326: 1998 |

| Safety | |
|----------|-----------------|
| Standard | UL 61010-1, CSA |

| Environmental | |
|----------------------|------------------------|
| Acoustic Noise | MIL-PRF-28800F Class 2 |
| Explosive Atmosphere | MIL-PRF-28800F Class 2 |
| Dust Resistance | MIL-PRF-28800F Class 2 |
| Drip Proof | MIL-PRF-28800F Class 2 |
| Blowing Rain | MIL-PRF-28800F Class 2 |
| Solar Radiation | MIL-PRF-28800F Class 2 |

1. "Specifications" describe product performance over the specified operating temperature range and frequency range are covered by the product warranty. "Typical" numbers are specified at ambient, room temperature (23° C) and describes a characteristic that 95% of product exhibit (± 2 standard deviations) with a 95% confidence level at room temperature (23° C). Typical characteristics are not covered by product warranty.

2. Use reason when working with RF test instruments. All thermal ratings are dependent upon applied RF power. The 3550R will alarm once the internal temperature of the 3550R exceeds predetermined limits. Applying power continuously in high ambient temperature conditions will result in a heat build-up within any instrument. The 3550R is rated for (43 dBm) for 10 minutes at +25° C or until thermal alarm sounds. Exceeding these conditions will result in thermal shutdown.

Ordering Information

Versions and Options

| Order Number | Description |
|--------------|---|
| 90849 | 3550R Handheld 1 GHz Radio Test System (Ruggedized) |

Standard Accessories

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|--------------------------------|
| External DC Power Supply |
| Getting Started Manual (Paper) |
| Operation / ICW Manual (CD) |
| Opt01 Channel Analyzer |
| Opt02 Oscilloscope |

Options

| | |
|--------|---|
| 83346 | 35XXOPT07 P25 Test |
| 83347 | 35XXOPT08 Tracking Generator |
| 89509 | 35XXOPT09 dPMR Test |
| 89510 | 35XXOPT10 ARIB T98 Test |
| 92468 | 3550OPT13 AAR Channel Plan |
| 92803 | 3550OPT14 Internal Bird 5017D Wideband Power Sensor |
| 112401 | 3550OPT15 Occupied Bandwidth (Requires 3550OPT01) |
| 114327 | 3550OPT16 Positive Train Control |
| 142130 | TETRA Base Station Test |
| 89261 | 35XXOPT33 NXDN Test |
| 89262 | 35XXOPT34 DMR Test |

Languages

| | |
|-------|---------------------|
| 91830 | Arabic |
| 91827 | Simplified Chinese |
| 91828 | Traditional Chinese |
| 92240 | French |
| 91820 | German |
| 91821 | Japanese |
| 91822 | Korean |
| 91823 | Malay / Indonesian |
| 91824 | Polish |
| 91826 | Russian |
| 91829 | Spanish |

Regional Kits

Accessories Supplied with 3550 Regional Kits

| |
|---------------------------------|
| Power Cable (AC) |
| Handset |
| Short-Open-Load VSWR Calibrator |
| Cable (TNC) (M-M) (48 in) |
| Cable (BNC) (M-M) (48 in) Qty 2 |

| | |
|-------|---|
| | Adapter (BNC-F to TNC-M) Qty 5 |
| | Fuse, Spare (5 A, 32 Vdc, Type F) Qty 2 |
| | Case, Accessory |
| | Power Cable (DC cigarette lighter) |
| | Antenna (BNC) (800 MHz) |
| | Antenna (BNC) (150 MHz) |
| | Antenna (BNC) (450 MHz) |
| | Antenna (BNC) (50 MHz) |
| | Combo Stand and Cover |
| 90603 | 3550 US Regional Kit with Black Hard Transit Case + Accessories; US Plug |
| 92777 | 3550 US Regional Kit with Soft-Sided Carrying Case + Accessories; US Plug |
| 90890 | 3550 China Regional Kit with Black Hard Transit Case + Accessories; China Plug |
| 92775 | 3550 China Regional Kit with Soft-Sided Carrying Case + Accessories; China Plug |
| 90889 | 3550 International Regional Kit with Black Hard Transit Case + Accessories; International Universal Plug |
| 92776 | 3550 International Regional Kit with Soft-Sided Carrying Case + Accessories; International Universal Plug |

Optional Accessories

| | |
|-------|-----------------------------------|
| 91600 | Case, Hard Transit, Yellow |
| 91706 | Case, Hard Transit, Black |
| 10192 | AC27004 Case, Soft-Sided Carrying |
| 91679 | 3550 Combo Stand and Cover |
| 67474 | AC0826 Tripod |
| 82553 | AC24006 Tripod, Dolly, Stand |

| | |
|--------|---|
| 67076 | AC27005 Battery, Spare, Internal |
| 82557 | AC5060 Attenuator (10 dB / 150 W), 1.5 GHz |
| 82559 | AC27002 Attenuator (20 dB / 50 W), Adapter (N-F to BNC-F), Adapter (N-M to TNC-M) |
| 82560 | AC27003 Attenuator (20 dB / 150 W), Adapter (N-F to BNC-F), Adapter (N-M to BNC-F) |
| 112681 | 3550 Mounting Bracket for 150 W Attenuator (82560) |
| 92723 | 3550 Accessory Kit, Precision DTF / VSWR |
| 92793 | Bird 5017D Wideband Power Sensor |
| 140747 | NEON Signal Mapper Package - Tracking Unit, Software and 1 Year License |
| 140748 | NEON Signal Mapper Package - Tracking Unit, Software, and 2 Year License |
| 140749 | NEON Signal Mapper Package - Tracking Unit, Software, and 3 Year License |
| 141586 | NEON Signal Mapper Package - Tracking Unit, Software, and 5 Year License |
| 63927 | AC25081 Survey Technologies Inc. (STI) Site Survey Package (Software & GPS Antenna) |

Extended Warranties

| | |
|-------|--|
| 84341 | 3550 1 Year Extended Hardware Warranty + ANSI No-Cert Calibrations |
| 84342 | 3550 1 Year Extended Hardware Warranty + Certified Calibrations |
| 84343 | 3550 3 Year Extended Hardware Warranty + ANSI No-Cert Calibrations |
| 84344 | 3550 3 Year Extended Hardware Warranty + Certified Calibrations |

Calibration Certificates

| | |
|-------|------------------------------|
| 91832 | 3550 Calibration Certificate |
|-------|------------------------------|



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