**MARKETING CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RF SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>8 GHz Model (OGR-8): 10 kHz - 8 GHz</td>
</tr>
<tr>
<td></td>
<td>24 GHz Model (OGR-24): 10 kHz - 24 GHz</td>
</tr>
<tr>
<td>Sensitivity/Displayed Average Noise Level (DANL) (25 kHz Resolution Band Width)</td>
<td>Without Preamp = -100 dBm</td>
</tr>
<tr>
<td></td>
<td>With Preamp = -110 dBm</td>
</tr>
<tr>
<td>Sweep Speed</td>
<td>24 GHz/second</td>
</tr>
<tr>
<td>Preamp</td>
<td>DC-8 GHz = 10 dB</td>
</tr>
<tr>
<td>Attenuation</td>
<td>DC-24 GHz = 0 dB, -10 dB, -20 dB, -30 dB</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>Min/Max Range: 90 dB</td>
</tr>
<tr>
<td>SFDR</td>
<td>80 dB</td>
</tr>
<tr>
<td><strong>AUDIO SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Demodulation Types</td>
<td>AM, FM</td>
</tr>
<tr>
<td>Filter Sizes</td>
<td>800 kHz, 200 kHz, 12.5 kHz, 6.25 kHz</td>
</tr>
<tr>
<td>Subcarrier Filters</td>
<td>6.25 kHz, 12.5 kHz, 200 kHz</td>
</tr>
<tr>
<td>Headphone Output</td>
<td>(low leakage headphones included)</td>
</tr>
<tr>
<td>Built-in Speakers</td>
<td></td>
</tr>
<tr>
<td><strong>VIDEO SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Formats</td>
<td>NTSC, PAL, SECAM</td>
</tr>
<tr>
<td>Demodulation</td>
<td>AM, FM</td>
</tr>
<tr>
<td>Filter Sizes</td>
<td>12.75 MHz, 6.375 MHz</td>
</tr>
<tr>
<td>Subcarrier Filters</td>
<td>6.25 kHz, 12.5 kHz, 200 kHz</td>
</tr>
<tr>
<td><strong>ANTENNA SYSTEM</strong></td>
<td></td>
</tr>
<tr>
<td>Built-in Auto Switching Antenna System</td>
<td>Frequency: 8 GHz Model (OGR-8) = 10 kHz (useable) to 8 GHz</td>
</tr>
<tr>
<td></td>
<td>24 GHz Model (OGR-24) = 10 kHz (useable) to 24 GHz</td>
</tr>
<tr>
<td><strong>INPUTS/OUTPUTS</strong></td>
<td></td>
</tr>
<tr>
<td>Aux RF In</td>
<td>10 kHz to 8 GHz</td>
</tr>
<tr>
<td>IF Out</td>
<td>25 MHz wide centered at 75 MHz</td>
</tr>
<tr>
<td>Baseband Out</td>
<td>DC – 6 MHz</td>
</tr>
<tr>
<td>Expansion</td>
<td>Aux Control Port for MPP</td>
</tr>
<tr>
<td><strong>REMOTE CAPABILITY</strong></td>
<td></td>
</tr>
<tr>
<td>Ethernet Port</td>
<td>for VNC remote access</td>
</tr>
<tr>
<td><strong>USER INTERFACE</strong></td>
<td></td>
</tr>
<tr>
<td>Integrated Touch Screen</td>
<td>8.4 inch (21.3 cm)</td>
</tr>
<tr>
<td>Numeric Keypad</td>
<td>High Resolution Touch Screen with 8.4&quot; display</td>
</tr>
<tr>
<td>Rotary Tuning Dial</td>
<td>Menu Control Keys</td>
</tr>
<tr>
<td>Built-In Speakers</td>
<td></td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td></td>
</tr>
<tr>
<td>Universal Power Supply Included</td>
<td>100-240 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>Removable Battery</td>
<td>Rechargeable Lithium ion, 4-hour runtime (typical)</td>
</tr>
<tr>
<td><strong>EXTERNAL STORAGE CAPABILITY</strong></td>
<td>Compact Flash (CF) Slot</td>
</tr>
<tr>
<td></td>
<td>USB-A Port</td>
</tr>
<tr>
<td><strong>MECHANICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>11.5 in x 13.2 in x 3.0 in (29.2 cm x 33.5 cm x 7.6 cm)</td>
</tr>
<tr>
<td>Weight with Battery</td>
<td>9.6 lbs (4.4 kg)</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>14.9 in x 19.5 in x 5.5 in (37.8 cm x 49.5 cm x 14 cm)</td>
</tr>
<tr>
<td>Loaded Case Weight</td>
<td>21.0 lbs (9.5 kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0° C to +50° C</td>
</tr>
</tbody>
</table>

**ADVANTAGES**

- **FULL 24 GHz COVERAGE**: Sweeps from 10 kHz to 24 GHz at 12.2 kHz steps in less than 1 second with integrated auto-switching antenna system.
- **TRACE ANALYSIS**: Quickly locates RF signals and analyzes traces to identify RF energy unique to specific environments.
- **COMPLETE PACKAGE**: QUICKLY LOCATES RF SIGNALS in the field with the OSCOR Green.
- **PORTABLE DESIGN**: MINIMIZES SET UP TIME when moving from site to site.
- **TRAINING BY REI INSTRUCTORS**: REI operates the largest commercially available technical security training facility in the world. On-site training also available.
- **REI operates the largest commercially available technical security training facility in the world. On-site training also available.**
- **Course dates and registration available online at www.reiusa.net**
The OSCOR Green is a hand-held spectrum analyzer with a rapid sweep speed and ease to use functionality suited for detecting analog, digital, and anomalous rogue transmissions across a wide frequency range.

- **Detects pulsed, frequency hopping, and spread spectrum signals**
- **Demodulates analog AM/FM audio/video signals**

### Sweeps & Operational Speed
The OSCOR Green sweeps a 24 GHz span in 1 second in 12.2 kHz steps utilizing multiple built-in antennas. Fast sweep time and on-board software make the OSCOR Green easy to deploy, optimizing total operational speed.

**Sweep Time**
- 1 second for 12.2 kHz resolution
- 0.1 second for 24 kHz resolution

**Remote Operation Using VNC**
The oscillator port allows remote access to the OSCOR Green. This functionality is built into functionality. Reference and target traces are quickly captured, stored, and compared for complete RF mapping solution.

**Built-In Auto-Switching Multi-Antenna System**
Seamless Spectrum Visibility from 10 kHz to 24 GHz or 10 kHz to 8 GHz (depending on the model) using the integrated Auto-Switching Multi-Antenna System.

**Directional Antenna**
Directional response makes locating transmitters easier. The directional antenna is handheld or can be clipped to the antenna panel.

**Multiple Pass Signal List Created in Seconds**
MULTIPLE PASS SIGNAL LIST CREATED IN SECONDS
- Carrier exclusion for single ended and general purpose measurements (75 ohm cable terminator included), with frequency range from 5 MHz to 2 GHz, CATV for low measurements of cable TV systems.
- VLF Magnetic Loop for analyzing low frequency spectrum activity from 20 kHz to 20 MHz
- I.R. (700-1100 nm) for detecting line of sight infrared signals from 50 kHz to 1 GHz
- V, (450 - 1100 nm) for detecting visible light transmitters from 50 kHz to 1.2 GHz

**Video Formats**
- NTSC, PAL, SECAM
- Wideband AM or wideband FM demodulation
- Video demodulation displayed on screen
- AM demodulation
- Audio: 200 kHz, 12.5 kHz, 6.25 kHz, 2 kHz
- Video: 12.75 MHz, 6.375 MHz

### Oscilloscope Output
- Real-time oscilloscope with an analog bandwidth of 50 MHz
- 500 MHz sampling rate
- 100 MSa/s sample rate

### Patented Trace Analysis for Rapid Signal Detection
RF’s trace analysis functionality provides full analysis of trace and signal data on-board without the need for a laptop.

- **Displays** 24 GHz of live trace data per second at 12.2 kHz resolution.
- **Quickly detects** localized RF energy transmissions of all types of modulation.
- **Detailed zoom mode** detects and zooms in on signals in the spectrum without interrupting the RF sweep peak trace capture.
- **Patented Trace Analysis** captures and analyzes signals over time.

### Signal Analysis and Location
**Signal List Generation**
The OSCOR Green collects peak trace data and then generates a signal list from the peak trace data. Moreover, the OSCOR Green can subtract a reference trace from a target sweep trace and create a signal list unique to the target area.

- **Signal List Generated from Trace Data**
- **Multi-Purpose Probe** plugs into the Auxiliary port for purpose measurements (75 ohm cable terminator included), with frequency range from 5 MHz to 2 GHz, CATV for low measurements of cable TV systems.
- **Spectrogram** collects trace data for long periods and stores it in the spectrum without interrupting the RF sweep peak trace capture.

### Spectrum Visibility
Sweep & Operational Speed
- Sweeps 10 kHz to 24 GHz
- 10 kHz to 8 GHz (depending on the model)
- Two models available: 24 GHz and 8 GHz

**Built-In Antenna**
- Front antenna for scanning environment
- Rear antenna for capturing analog threats
- Built-In Auto-Switching Multi-Antenna System

**Directional Antenna**
- Handheld or clipped to the antenna panel

**Remote Operation Using VNC**
The other end port allows remote access to the OSCOR Green. This functionality offers the flexibility to remotely monitor a sweep in progress.

**Patented Trace Analysis for Rapid Signal Detection**
The spectrum analyzer collects trace data for long periods and stores it in the spectrum without interrupting the RF sweep peak trace capture.

- **Sweeps** 10 kHz to 24 GHz
- **Portability**

### Demodulation of signals
- **Detection of** pulsed, frequency hopping, and spread spectrum signals
- **Demodulation Bandwidths**
- **Sweeps** 10 kHz to 24 GHz

### Signal Analysis and Location
- **Signal List Generation**
- **Spectral Display**
- **Persistence Display**
- **Spectrogram**
- **Persistence Display**
- **Signal List Generation**
- **Multi-Purpose Probe**
- **Directional Antenna**
- **Video Formats**
- **Built-In Antenna**
- **Remote Operation Using VNC**
- **Patented Trace Analysis for Rapid Signal Detection**
- **Sweeps** 10 kHz to 24 GHz
The OSCOR Green is a hand-held spectrum analyzer with a rapid sweep speed and easy-to-use functionality suited for detecting unknown, digital, disruptive, and anomalous rogue transmissions across a wide frequency range.

- RF emissions analysis
- Investigating misuse of the crowded RF spectrum
- Site Surveys for communications systems (cell towers, microwave links, etc.)
- Wireless service providers and installers
- Security surveys for widescreen detection

With world economies competing for business, high level corporate security requires improved receiver sensitivity.

**Sweep & Operational Speed**
The OSCOR Green sweeps a 24 GHz span in 1 second in 12.2 kHz steps utilizing multiple built-in antennas. Fast Sweep & Operational Speed

- Sweeps 10 kHz to 24 GHz
- Detects pulsed, frequency spectrum signals
- Hopping, and spread spectrum data from multiple locations.

The ethernet port allows remote access to the OSCOR Green. This functionality improves receiver sensitivity.

- Seamless Spectrum Visibility
- Captures comprehensive signal activity without missing signals due to interferences.
- Patented Trace Analysis for Rapid Signal Detection
- Patented Trace Analysis is a built-in functionality. Reference and target traces are quickly captured, stored, and compared for complete RF mapping solution.

**Spectrum**
The spectrum analyzer collects trace data for long periods and saves it in a spectrum analyzer file that the OSCOR Green can recall and review on-screen. Intermediate peak traces are stored at a minimum of 0.5 second intervals with a spectrum resolution of 24 kHz. The intermediate peak hold trace is saved while sweeping at 24 GHz per second.

**Persistence Display**
Persistence display generates a trace graph with varying color brightness based on the persistence of signals. This provides the ability to determine if multiple signals occupy the same frequency bands.

**Built-in Auto-Switching Multi-Antenna System**
Seamless Spectrum Visibility from 10 kHz to 24 GHz or 10 kHz to 8 GHz (depending on the model) using the integrated Auto-Switching Multi-Antenna System.

**Multi-Purpose Probe**
Coax (F Connector) for single ended and general purpose measurements (75 ohm cable terminator included) with frequency range from 5 MHz to 2 GHz. CATV for low measurements of cable TV systems.

**Directional Antenna**
Directional response makes locating transmitters easier. The directional antenna is handheld or can be clipped to the antenna panel. Range: 1.5 GHz to 8 GHz. Gain: Approximately 5 dB.

**Remote Operation Using VNC**
The user can monitor the scanner to the OSCOR Green. This functionality offers the flexibility to remotely monitor a sweep in progress.

**Built-In Suite of Demodulators**

<table>
<thead>
<tr>
<th>Audio</th>
<th>Video Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM wideband</td>
<td>NTSC, PAL, SECAM</td>
</tr>
<tr>
<td>FM narrowband</td>
<td>Wideband AM or wideband FM modulor</td>
</tr>
<tr>
<td>AM wideband</td>
<td>Video demodulation within screen</td>
</tr>
<tr>
<td>AM narrowband</td>
<td>Demodulation Bandwidths</td>
</tr>
<tr>
<td>Sub-carrier</td>
<td>Audio: 200 kHz, 12.5 kHz, 6.25 kHz, 2 kHz</td>
</tr>
<tr>
<td>Single-Sideband</td>
<td>Video: 12.75 kHz, 6.375 kHz</td>
</tr>
</tbody>
</table>

**Spectrum Update and Display**
Continuous Spectrum Update and Display while Demodulating.

**Signal List Generation**
The OSCOR Green collects peak trace data and then generates a signal list from the peak trace data. Moreover, the OSCOR Green can subtract a reference trace from a target sweep trace and create a signal list unique to the target area.

**Signal Analysis and Location**
Signatures are easily located based on RSSI level change. Signatures are located and target traces are automatically detected.

**Demodulated audio signal in Analyze mode**
Demodulated video signal in Analyze mode

**OSCOR Green Data Viewer Software**
Data Viewer software is a free downloadable PC application that allows users to open, view, analyze, export, print, and save OSCOR Green files including trace, signal, audio, and spectrum capture files (i.e. waveform).

Download the Data Viewer software at www.reiusa.net.
**Sweep & Operational Speed**

The OSCOR Green sweeps a 24 GHz span in 1 second in 12.2 kHz steps utilizing multiple built-in antennas. Fast sweep & operational speed makes the OSCOR Green easy to deploy, optimizing total operational speed.

**Spectrums**

- Sweeps 10 kHz to 24 GHz
- FM audio/video signals
- Spectrum signals

**Performance**

- Built-in Auto-Switching Multi-Antenna System
- Seamlessly transition between 10 kHz to 24 GHz or 10 kHz to 8 GHz (depending on the model) using the integrated Auto-Switching Multi-Antenna System.

**Remote Operation Using VNC**

The OSCOR Green’s proximity to the user is limited antenna range or from having to switch external antennas.

**Portable Solutions**

The OSCOR Green is lightweight (9.6 lbs / 4.4 kg), small and hand-held for easy mobility through target areas while collecting trace data and performing signal analysis. The built-in antennas and analysis software make it easy to deploy, and quickly capture and compare spectrum data from multiple locations.

**Product Specifications**

- **Model**: 24 GHz and 8 GHz
- **Specifications**: Detailed in the product data sheet.

**Built-In Suite of Demodulators**

- **Audio**: FM, AM, PAL, SECAM
- **Video Formats**: NTSC, PAL, SECAM
- **Directional Antenna**: Easy to use, even under adverse conditions.
- **Directional response**: Marching display makes locating transmitters easier. The directional antenna is handheld or can be clipped to the antenna panel.

**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
- Video: NTSC, PAL, SECAM

**Built-In Suite of Demodulators**

- **Audio**: FM, AM, PAL, SECAM
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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
- Video: NTSC, PAL, SECAM

**Built-In Suite of Demodulators**

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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
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**Built-In Suite of Demodulators**

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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
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**Built-In Suite of Demodulators**

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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
- Video: NTSC, PAL, SECAM

**Built-In Suite of Demodulators**

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**Demodulated Audio/Video Signals**

- Audio: FM, AM, PAL, SECAM
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- Audio: FM, AM, PAL, SECAM
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- Video: NTSC, PAL, SECAM

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MARKETING CHARACTERISTICS

**MARKETING CHARACTERISTICS**

### RF SYSTEM
- **Frequency:**
  - 8 GHz Model (OGR-8): 10 kHz - 8 GHz
  - 24 GHz Model (OGR-24): 10 kHz - 24 GHz
- **Sensitivity/Displayed Average Noise Level (DANL) (25 kHz Resolution Band Width)**
  - Without Preamp = -100 dBm
  - With Preamp = -110 dBm
- **Sweep Speed:**
  - 24 GHz/second
- **Preamp:**
  - DC-8 GHz = 10 dB
- **Attenuation:**
  - DC-24 GHz = -10 dB, -20 dB, -30 dB
- **Dynamic Range:**
  - Min/Max Range: 90 dB
  - SFDR: 80 dB

### AUDIO SYSTEM
- **Demodulation Types:** AM, FM
- **Filter Sizes:**
  - 800 kHz, 200 kHz, 12.5 kHz, 6.25 kHz, 2 kHz
- **Subcarrier Filters:**
  - 6.25 kHz, 12.5 kHz, 200 kHz
- **Headphone Output**
  - (low leakage headphones included)
- **Built-in Speakers**

### VIDEO SYSTEM
- **Formats:** NTSC, PAL, SECAM
- **Demodulation:** AM, FM
- **Filter Sizes:**
  - 12.75 MHz, 6.375 MHz
- **Subcarrier Filters:**
  - 6.25 kHz, 12.5 kHz, 200 kHz

### ANTENNA SYSTEM
- **Built-in Auto Switching Antenna System:**
  - Frequency:
    - 8 GHz Model (OGR-8) = 10 kHz (useable) to 8 GHz
    - 24 GHz Model (OGR-24) = 10 kHz (useable) to 24 GHz
- **INPUTS/OUTPUTS**
  - **Aux RF In:**
    - 10 kHz - 8 GHz
  - **IF Out:**
    - 25 MHz wide centered at 75 MHz
  - **Baseband Out:**
    - DC – 6 MHz
  - **Expansion:**
    - Aux Control Port for MPP

### REMOTE CAPABILITY
- **Ethernet Port**
  - for VNC remote access

### USER INTERFACE
- **Integrated Touch Screen with 8.4" Display**
  -Soft Keys and Rotary Optical Encoder
- **USB Ports (A type):**
  - for peripherals (keyboard, mouse)

### POWER SUPPLY
- **Universal Power Supply included:**
  - 100-240 VAC, 50-60 Hz
- **Removable Battery:**
  - Rechargeable Lithium ion, 4-hour runtime (typical)

### EXTERNAL STORAGE CAPABILITY
- **Compact Flash (CF) Slot**
- **USB-A Port**

### MECHANICAL
- **Dimensions:** 11.5 in x 13.2 in x 3.0 in (29.2 cm x 33.5 cm x 7.6 cm)
- **Weight with Battery:**
  - 9.6 lbs (4.4 kg)
- **Case Dimensions:** 14.9 in x 19.5 in x 5.5 in (37.8 cm x 49.5 cm x 14 cm)
- **Loaded Case Weight:**
  - 21.0 lbs (9.5 kg)
- **Operating Temperature:**
  - 0° C to +50° C

### ADVANTAGES
- **FULL 24 GHz COVERAGE**
- **SWEEPS FROM 10 kHz TO 24 GHz AT 12.2 kHz STEPS IN LESS THAN 1 SECOND WITH INTEGRATED AUTO-SWITCHING ANTENNA SYSTEM**
- **TRACE ANALYSIS**
  - COMPARE PEAK TRACES TO IDENTIFY RF ENERGY UNIQUE TO SPECIFIC ENVIRONMENTS
- **COMPLETE PACKAGE**
  - QUICKLY LOCATES RF SIGNALS
  - PORTABLE DESIGN MINIMIZES SET UP TIME WHEN MOVING FROM SITE TO SITE

**TRAINING BY REI INSTRUCTORS**
- REI operates the largest commercially available technical security training facility in the world. On-site training also available. Courses after are available online or at conferences.
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### Antenna Panel Inputs
- 8 GHz - 24 GHz
- (OGR-24 only)
- Baseband Out
- IF Out
- Ports
- Aux Control Port
- USB Port (type-B) for Memory/Keyboard/Mouse
- Compact Flash Memory Port
- Rubber Grip

### Input/Output
- **Aux RF In:**
  - 10 kHz - 8 GHz
- **IF Out:**
  - 25 MHz wide centered at 75 MHz
- **Baseband Out:**
  - DC – 6 MHz

### Expansion
- Aux Control Port for MPP

### Remote Capability
- **Ethernet Port** for VNC remote access

### User Interface
- **Integrated Touch Screen with 8.4” Display**
- Soft Keys and Rotary Optical Encoder
- **USB Ports (A type):** for peripherals (keyboard, mouse)

### Power Supply
- **Universal Power Supply Included:**
  - 100-240 VAC, 50-60 Hz
  - Removable Battery:
    - Rechargeable Lithium ion, 4-hour runtime (typical)

### External Storage Capability
- **Compact Flash (CF) Slot**
- **USB-A Port**

### Mechanical
- **Dimensions:**
  - 11.5 in x 13.2 in x 3.0 in (29.2 cm x 33.5 cm x 7.6 cm)
- **Weight with Battery:**
  - 9.6 lbs (4.4 kg)
- **Case Dimensions:**
  - 14.9 in x 19.5 in x 5.5 in (37.8 cm x 49.5 cm x 14 cm)
- **Loaded Case Weight:**
  - 21.0 lbs (9.5 kg)
- **Operating Temperature:**
  - 0° C to +50° C

### Marketing Characteristics

### Spectrum Analyzer
- Two models available: 24 GHz and 8 GHz

### ADVANTAGES
- **Full 24 GHz Coverage:**
  - Sweeps from 10 kHz to 24 GHz at 12.2 kHz steps in less than 1 second with integrated auto-switching antenna system
- **Trace Analysis:**
  - Quickly locates RF signals
  - Identifies RF energy unique to specific environments
- **Complete Package:**
  - Quickly locates RF signals
  - Portable design minimizes set up time when moving from site to site
- **Training by REI Instructors:**
  - REI operates the largest commercially available technical security training facility in the world. On-site training also available.
  - Course dates and registration available online at www.reiusa.net