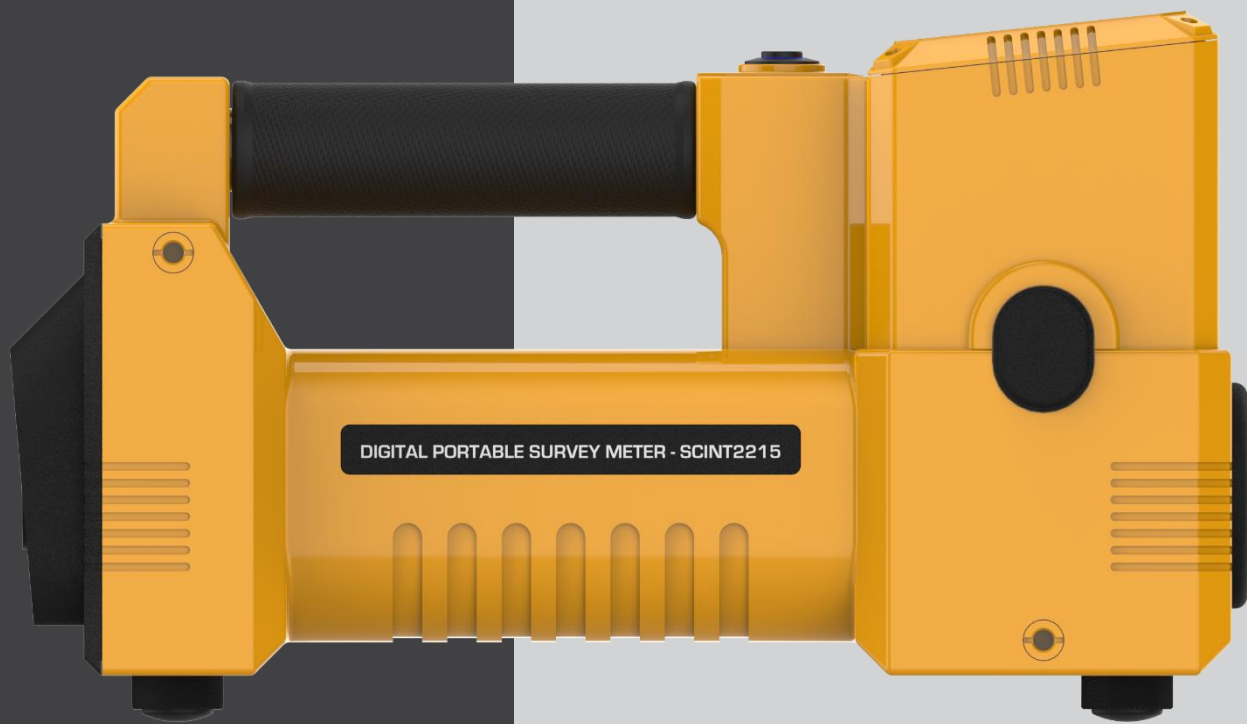




Innovator In Spectroscopy Equipment

# SCINT2215



**DIGITAL PORTABLE  
SURVEY METER  
MODEL SCINT2215**



CATALOG



SPECTROMETER



FREE DOWNLOAD

[www.cfp.co.ir](http://www.cfp.co.ir)

# DIGITAL PORTABLE SURVEY METER

## MODEL SCINT2215

### Features

- High efficiency
- Single-block design
- NaI(Tl) detector, 50cm<sup>3</sup> (3.2in<sup>3</sup>)
- Extreme sensitivity to gamma-rays
- On-line and expert mode operation
- Easy to use, single button operation
- 1.6" x 1.6" (40mm x 40mm) Crystal size
- Audio output with the adjustable threshold
- Ultra high speed: real 100msec sampling interval
- Continuous operation under severe environmental conditions
- Survey mode with search capability showing numeric display and audio output
- Ready for field operation
- Automatic logging of scan data with GPS-referencing for further analysis (optional)
- Configuration menu
- Date and time menu
- full color 2.4inch IPS display
- External military GPS (optional)
- 2D and 3D radioactive mapping
- Typical 8hour battery life at 20°C
- Instrument to PC data exchange over USB
- Light Weight 4.6lb. (2.1kg) including batteries
- No radioactive sources required for proper operation
- Special rugged design to withstand typical field usage
- Waterproof against streaming water and fully dust protected
- Recording and storing all measurement result in memory

### ULTRA HIGH SPEED & SINGLE BUTTON OPERATION



## Description

The SCINT2215 Scintillometer from Control Farayand Pasargad (CFP) is the state-of-the art portable hand-held radiation survey meter device for using in the geophysical industry, health physics, homeland security industries and etc. It offers an integrated design with a NaI(Tl) detector for high sensitivity, direct survey readout, audio output, full weather protection, and ease of use.

A loud linear voice audio permitting eyes-free operation. The large easy to read 6-digit display provides a 200,000 count with a wide dynamic range without overflow.

The SCINT2215 lightweight together with the balanced handle and single thumb button, allows easy one handed operation. The single ON/OFF button also allows easy setup of a limited number of working parameters and so, Upgradable to CFP SCINT2215-PRO with 100msec log option.

Portable multifunctional radiation monitoring devices, primarily designed for search and detection of gamma radiation sources with automatic identification of radionuclide composition Can be used for area and land radiation monitoring with data GPS-referencing.

### Survey Mode

In survey mode (total count), Total count is displayed in the front panel in cps at 10/sec update rate. The unit has an integrated mapping capability using an external optional GPS. This scan capability enables the users to move through a large area with the unit recording data at typically a one reading per second rate with GPS location. Companion software then permits a map to be made with high precision in the positioning of data points. When used with a GPS receiver, data can be stored and profiles are produced which is ideal for both area surveying and drilled core.

## Specifications

<b>Input(s)</b>
Antenna connector
SMA connector for GPS
USB
5V DC for PC communication
<b>Output(s)</b>
USB
USB port for PC communication
<b>Control(s)</b>
Power
Power push Single button to turn on or off device
Function Key
Single one button (thumb activated)
<b>Indicator(s)</b>

<b>power</b>	
Power on indicator	
Battery status in 3 color (red, orange, green)	
<b>Ring</b>	
Blue Ring button	
<b>Alarm</b>	
Audio via miniature speaker, Variable audio threshold set point and Audio voice proportional to the count rate	
<b>Logo</b>	
CFP logo indicator (full color)	
<b>Display</b>	
Outdoor IPS full color LCD	
2.4", 240 x 320pixels	
All viewing angle readable(160D)	
6-digit LCD display with high count rate over 200,000 CPS	
Scrolling histogram graph display of the last 220 reading	
sunlight readable LCD (800 nits)	
High contrast	1:800
Display colors	65K/262K
Display mode	Transmissivity / Normally Black
High-definition Luminance	800cd/m <sup>2</sup> (800nit : 233fL)
Easily view log files with no need to connect to a computer	
<b>Performance</b>	
<b>Count Rate</b>	
Maximum 200,000 CPS	
<b>Readout</b>	
Search Mode	Counts in CPS from 0 to 200k
<b>Gamma Sensitivity</b>	
1CPS equal 1 nSv/h	
<b>Energy Response</b>	
20 - 3000 keV	
<b>Internal Sampling</b>	
10 /second	
<b>Coefficient of Variation (CV)</b>	
3.80% @ 150 CPS	
1.94% @ 500 CPS	
1.23% @ 1500 CPS	
0.50% @ 5000 CPS	
0.49% @ 15000 CPS	
<b>Detector</b>	
gamma	
NaI(Tl), 40mm x 40mm	
<b>PMT</b>	
14-pin 10-stage PMTs	
<b>Data Acquisition and Analysis</b>	
OS	
Built in Windows 7 or higher versions	
Software	

SCINT2215 (SOFTWARE)

**Measurement**

High Voltage

0-1400V, Positive, 12 Bit resolution

ROI Selection

1 ROIs to select on store from 20-3000keV

**Battery**

Standard

Internal battery pack module (2 cell Li-ion)

Protected Li-ion battery 3.6V 3400mAh

Rechargeable Life: over 8 hours at 20°C in full performance

Device

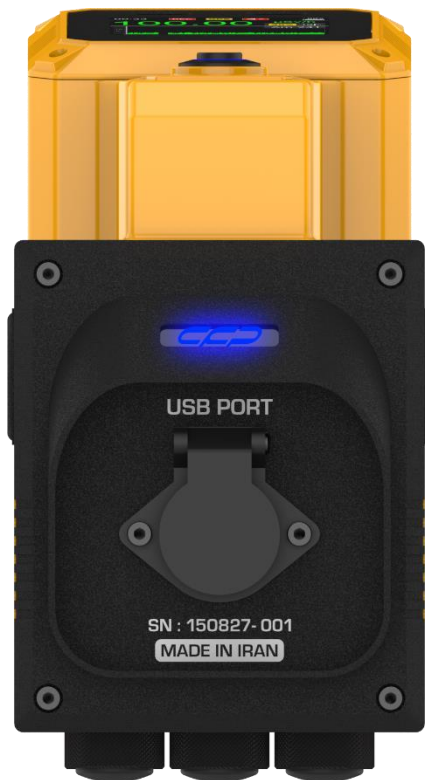
350times recharging process battery life

**Memory**

8MB (pro version 128MB)

**Application**

- Core scanning
- Laboratory assays
- Homeland security
- Baseline surveying
- Emergency situations
- Dose rate measurement
- Radioactive waste control
- Accurate inspection of lading
- Nuclear medicine and industry
- Safe disposal of nuclear waste
- Environmental waste monitoring
- Healthcare (thyroid scan and ...)
- Port and Border Law Enforcement
- Radiation monitoring and mapping
- Exploration for radioactive material
- Artificial radiation sources identification
- Radiation monitoring in building industry
- Scientific Research and Research activities
- Radioactive sources and materials traffic control
- Geological and raw material survey (uranium ore)



## Electrical, Mechanical and Environmental

### Power required

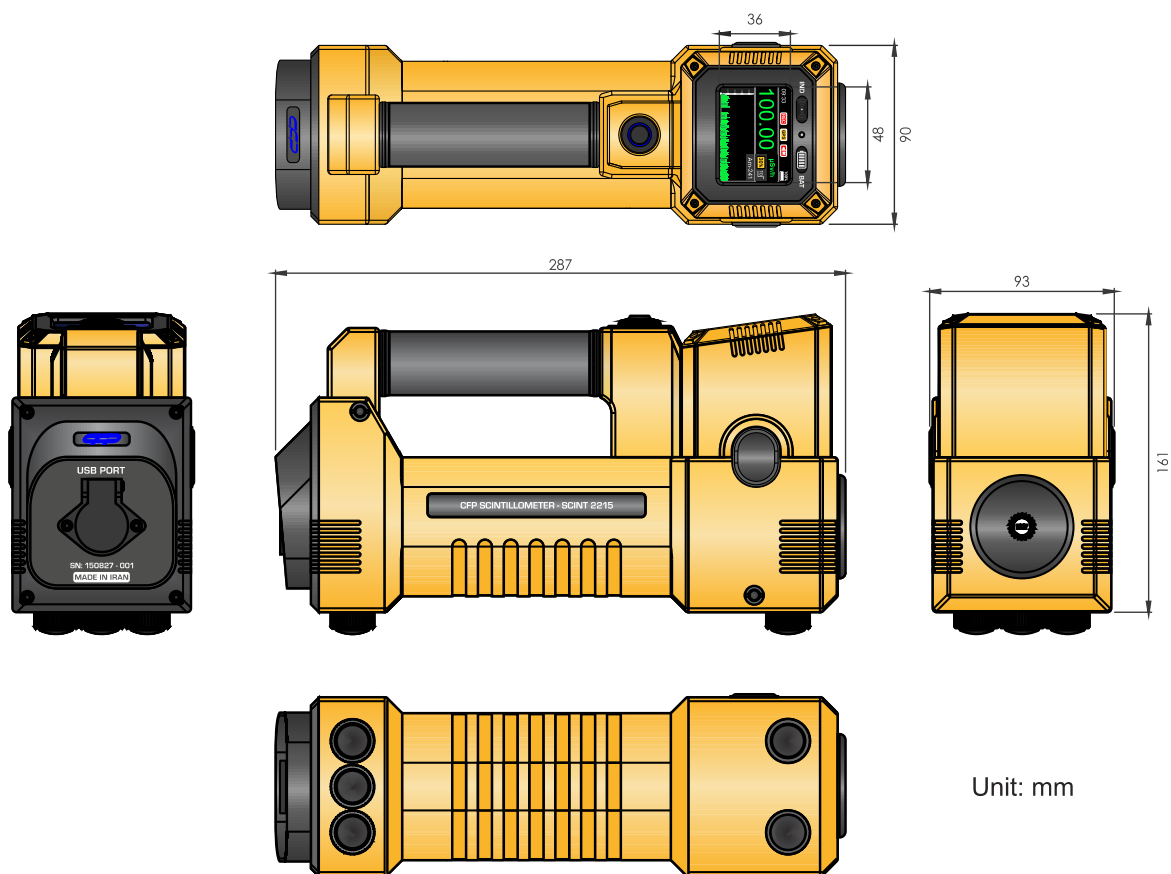
Internal battery pack module (2 cell Li-ion)

Protected Li-ion battery 3.6V 3400mAh

Rechargeable Life: over 8 hours at 20°C in full performance

### Physical

Dimensions	package style: 42 x 33 x 20 cm (L x W x H) Scintillometer: 28 x 16 x 10 cm (L x W x H)
Weight	without batteries: 2.1kg with batteries: 2.5kg Shipping: 6.5kg
Storage temperature	-20°C to 50°C @35% Relative Humidity
Operating temperature	-10°C to 45°C.
Relative Humidity	10 to 80%
Packaging case IP	Hard case with foam insert and Waterproof to 5m



SCINT2215-Mechanical

## Software and user interface

### Device GUI

SCINT2215 can be used standalone using the companion 2.4inch display. In the following we see the most important window in the device.

Figure 1: Main window

Figure 2: Fast response time (100msec)

Figure 3: multi-color histogram graph

Figure 4: Record status

Figure 5: main tab

Figure 6: Configuration tab



Figure 1



Figure 2



Figure 3



Figure 4

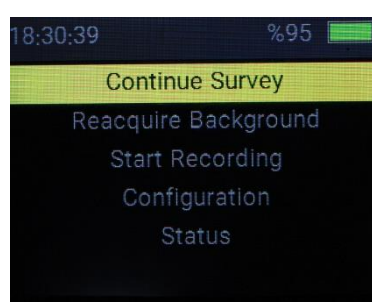


Figure 5

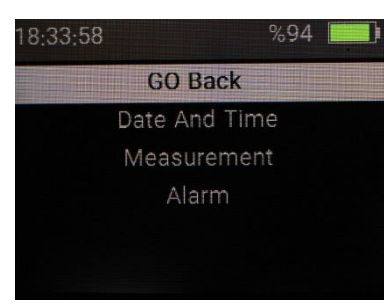


Figure 6

### PC software

Interface software (STD version)

Remote Software monitoring Pro version (Optional)

The SCINT2215 is provided with utility software to download the data that is stored in memory. All data in the memory can be handled via USB to the SCINT - Analysis program on a PC in the form of data or Scan data +GPS. The program also gives graphical and numerical views of the data. The data can also be re-exported as a text file for further processing.

Input /Output (Using supplied CFP-Analysis software)

USB

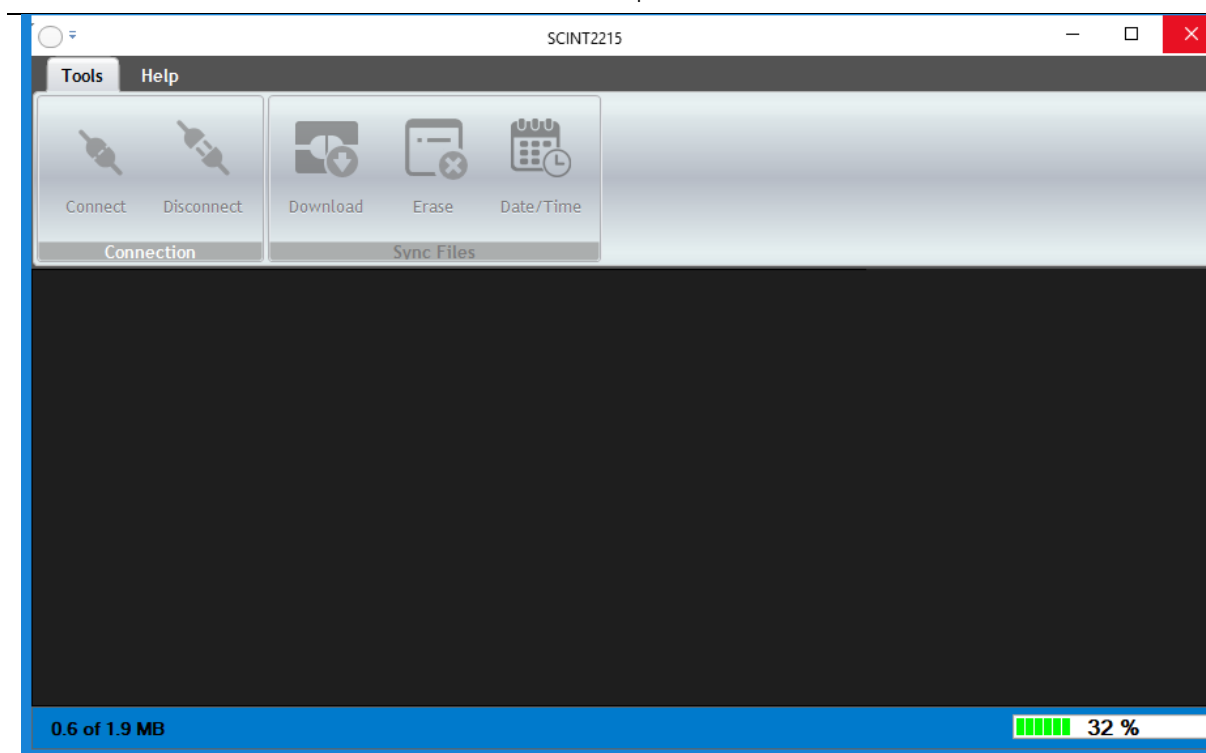
External GPS (optional)

Data Output formats

Standard CSV file

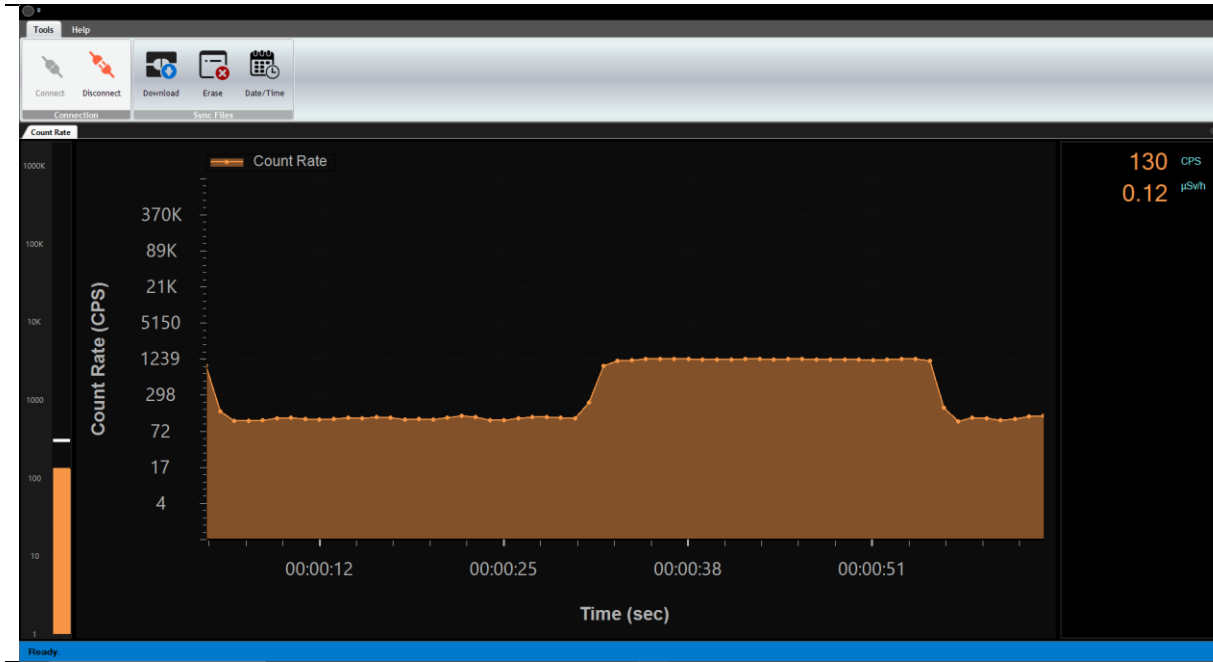


Software Splash



Interface software (STD version)





Remote Software monitoring Pro version (Optional)



## Ordering info


### Standard package includes

Part #	Image	Description
SCINT2215		SCINT2215 UNIT with NaI(Tl) crystal 40mm x 40mm Includes the main body of device (Detection system, linear stage, integrated display)
ACCE2215001		CD user guide (1 Pack) Interface software (STD version)
ACCE2215007		Hard case with foam insert
ACCE2215011		Battery charger + 2 Cell protective li-ion battery
ACCE2215012		Cable USB 2.0 (A) to USB (A) Cable (1 Pack)
ACCE2215003*		Guaranty (one-year)

\* = we stand behind our products. We guarantee your satisfaction in the quality of our instruments by providing a complete one-year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement. for guaranty conditions, please refer to manual device (SCINT2215- Manual).

### Optional accessories and services

Part #	Image	Description
ACCE2215004		Installation
ACCE2215005		Training
ACCE2215006**		Re-Calibration (Interval) services. 1year factory maintenance suggested, not required.
ACCE2215013		Upgradable to SCINT2215pro Fast 100msec recording 128Mb storage capacity
ACCE2215014		Shoulder strap
ACCE2215015		Backup protective battery cell (OLIGHT) 3000mAh, 3400mAh
ACCE2215016		Backup protective battery cell (NITCORE) 3400mAh
ACCE2215017		Battery charger 4Cell
ACCE2215018		Screw type waterproof USB 2.0 connector IP67 (1 pack)
ACCE2215019		External GPS active antenna
ACCE2215020		USB to USB extenuation Cable 10,15, 20, 30 meters

ACCE2215021		CD user guide (1 Pack) Remote Software monitoring Pro version (Optional)
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\*\* = The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy. for Re-calibration (Interval) services, please call with CFP company (021- 4604538)







Innovator in Spectroscopy Equipment



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