Technical Information

Memory

The ELITE Complete can operate as a self contained unit in the event of a network outage. All test results and user profiles are stored on the ELITE Test System.

- 48,000 User Profiles
- 100,000 Test Results

Data Capture and Storage

- 100,000 Test without Connection to ELITE DataSystems
- Unlimited PC/Server Storage (Limited to Disc Space Only)
- Auto Retrieval of Test Results

- **Data Storage - On Device**
- User Profile Table
- Hardware Profile Configuration (ELITE WebUI)
- 16 Unique RFID Card Credentials
- Calibration Certificate

- **Data Capture - Per Test**
- User Name
- User ID
- Test Requirement
- Overall Test Result
- Test Result per Device - Pass, Fail, Pass High
- Measured Resistance Value per Device
- Time
- Date
- Relative Humidity (RH)
- Unit Serial Number

User Profile Table

Users can be added to the ELITE Test System via the User window inside of ELITE DataSystems (EDS). All User Profile information is stored both in the database on the PC/Server and on the ELITE Test System. User tables are synced and updated via EDS.

- User ID (Employee Number)
- Test ID (Badge Number)
- First Name
- Last Name
- Email Address
- Required Test (see Test Assignments)
- Retest Frequency (Time)
- Department
- Supervisor
- Shift (Day, Time)
- PTO (Date Range)
- Certifications (Date Range)

Test Range - VTR Technology

Test ranges are 100% user adjustable. This allows you to dial in on application based controls where tolerances are tighter or looser than ESDA standards. VTR Technology customization can be found in the ELITE WebUI.

- Wrist Strap: 200k - 100M Ohms
- Smock: 200k - 100M Ohms
- Footwear: 200k - 1.5G Ohms
- 100% Adjustable Test Range for All Devices
- Pass High Tolerance
- Device Input Sensing - ELITE Sense Mode™
- Device Interface Individual On/Off Toggle

Pass High - VTR Technology

Adjustable for every device interface. Otherwise known as Preventative Failure Mode. Can be adjusted to any limit below the Fail High setting.

- Alert: Yellow Indicator
- Full Range Adjustability

Calibration

Unique to the ELITE Test Systems is our trademarked VTR Technology™ (Variable Test Resistance Technology). There are zero moving parts, which means no manual adjustments are needed. Low to no calibration drift.[1]

- VTR Technology™
- Digitally Stored Calibration Certificate (see ELITE WebUI)
- 100% Fully Adjustable Test Range per Device
- Displays Individual Device Calibration On-Screen
- NIST Traceable (from the Factory)
- Exceeds North American and European ESD Standards

Calibration Mode

A super simple method of calibrating the ELITE built right into the hardware and WebUI. Calibration Mode is an on-screen wizard that walks you through calibrating the ELITE in a few short minutes.

- **Calibration Tolerance**
- 10kΩ , 5%
- 100kΩ , 5%
- 1MΩ , 5%
- 10MΩ , 10%
- 100MΩ , 15%
- 1GΩ (1000MΩ) (Footwear Only) , 20%

Connections

- Wiegand Data I/O 5V
- RS232 Serial I/O 12V
- 2 Pin I/O 5V
- PLC Relay Control x2
- RJ45 Ethernet
- USB B
- RJ45 Footplate
- Earth Ground (on Footplate)

ESD Device Interface Inputs

- 3.5mm Mono Dual Wire Wrist Strap & Smock
- 3.5mm Mono Dual Wire Smock
- 4mm Banana Type Single Wire Wrist Strap
- 4mm Banana Type Single Wire Smock
- RJ45 Footplate Left & Right Foot

Test Assignments

- **Single**
- Wrist Strap
- Left & Right Feet
- Left Foot Only
- Right Foot Only
- Smock

- **Combinations**
- User Select
- Wrist Strap & Footwear
- Wrist Strap or Footwear
- Smock & Wrist Strap
- Smock & Footwear
- Smock, Wrist & Footwear
- Smock or Wrist Strap
- Smock or Footwear
- Smock or Wrist or Footwear

- **Access**
- Default
- No Test Required
- Access Denied
- Insulative Footwear

Test Circuit

- 30V Footwear
- 3.3V Wrist Strap & Smock
- Solid State Stainless Steel Test Switch
- Composite & Stainless Dual Plate Footplate

Security

- Multi-Factor Verification™
- Botron Proprietary Bare Metal OS
- TTL Access Control Relays
- Wiegand Data Output
- I/O Input

- Restrict Access Privileges
- Required Test
- Unrecognized Badge Denial
- Unknown User Denial
- ELITE Badge Decoding System

ID Interfaces

- 3 Readers Simultaneously Connected
- RS232 Serial Interface
- Wiegand Data
- Barcode 38 and 129 Font
- Keypad

RFID Card Types

50+ Card Types[2]

- **CSN Supported Card Types[2]**
- HID™ iCLASS™ CSN
- ISO 14443A CSN
- • Advant CSN
- • LEGIC
- • DESFire CSN
- • I-tag CSN (IBM)
- • MIFARE® Classic
- • MIFARE® DESFire
- • MIFARE® DESFire® EV1
- • MIFARE® DESFire® EV2
- • MIFARE® Plus CSN
- • MIFARE® Ultralight CSN
- ISO 15693 CSN
- • etag CSN
- • I-Code CSN
- • Philips/NXP
- • Infineon my-d™ CSN
- • Tag-It CSN
- • Texas Instruments

- **125 kHz and 13.56 MHz Supported Card Types[2]**
- Awid
- Bosh ReadyKey Pro UIDX
- Cardax UID
- CASI-RUSCO
- Corbin Russwin UID
- Cotag
- Deister UID
- DIGITAG
- Dimpna UID
- EM 410x (EM 4102, EM 4105)
- Farpointe Data Pyramid PSC-1
- Farpointe Delta
- GProx-II UID
- HID™ iCLASS™ technology
- HID™ iCLASS SE™ technology

- HID™ Prox
- HiTag 1
- HiTag 2
- HiTag S
- Honeywell Nexwatch
- ID Teck
- Indala 26 bit (Motorola)
- Indala Custom Formats: Please contact RF IDeas sales
- ioProx
- ISONAS™
- Kantech
- Keri KC-10x
- Keri KC-26x
- NexKey, Quadrakey, KeyMate, 2Smart Key (Honeywell)
- Paradox
- ReadyKey
- RF Logics
- Rosslare
- SecuraKey Radio Key
- Sielox/Checkpoint
- Sony FeliCa Idm
- Sony FeliCa Lite Idm
- UTC/GE Security
- XceedID Prox 7510

Alerts

- Audible Alert on Fail
- Multi-Color LED Indicators

Indicators

- Back Illuminated Multi-Color LED
- Pass - Green
- Fail - Red
- Pass High - Yellow
- Standby - Blue (Sense Detection Off)
- Engaged - Blue (Sense Detection On)

Relays

Relays provide connection to gated terminals such as doors and light towers.

- 2 Relay Terminals, Screw Type
- TTL Communication
- Relay A - Pass
- Relay B - Exit or Mirror Relay A
- Tigger on Pass Test result (Relay A)
- Trigger on I/O input signal (Relay B)
- Configurable Relay Delay
- Open Time Control (Duration)

- Recommended Wire Size 12AWG @ 0-13′
- Recommended Wire Size 10AWG @ 13′-22′
- NO/NC
- Switching Capacity 1A 30V DC
- Power Limit Under 30V
- Current Limit Under 1A
- Voltage 30V DC

Networking - ELITE WebUI

- MAC Address
- Host Name
- DHCP
- IP Address
- Gateway
- Subnet
- Primary DNS
- Secondary DNS

Display

- Built-in 3 inch Backlit LCD (2.875 inch viewable)
- Resolution - 128 by 64 pixels
- Calibration (Test Range per Device)
- RH
- Time and Date
- Calibration (Test Range per Device)

- User Name
- User Test ID
- Required Test
- Test Result (Pass, Fail, Pass High) (per Device)
- Test Resistance (per Device)
- TCP Info

Electrical

- Line voltage: 100-240V AC
- Frequency: 50Hz to 60Hz
- Output: 12V at 1.25amp

Size and Dimensions

- Length: 9.2 inches (23.4 cm)
- Width: 5.25 inches (13.3 cm)
- Height: 1.7 inches (4.3 cm)
- Weight: 1.5 pounds (.7 kg)

System Requirements

- **ELITE DataSystems 1.2.1.06**
- Network Access (Internet not required)
- Windows 7 or later (32 bit)
- MS SQL 2013 or greater (EDS Enterprise Only)

- Microsoft Excel, Google Spreadsheets, capable of reading and saving xls files.
- 2GB of Disc Space for Microsoft Access (based on Microsoft Access file limits)

- **ELITE WebUI**
- Modern Internet Browser (Chrome, Safari)
- Android
- iOS
- Mac OS
- Windows

Auto Reporting - ELITE DataSystems

ELITE DataSystems Auto-Reporting suite can be filtered and organized by any data point, allowing you to combine filters and report fields to drill down on the exact information you want to deliver, to whom and when.

- Report Name
- Report Title
- Report Filter
- Group
- Send Time
- Schedule (Day)
- Recipients (email Address)
- Report Delivery Package (Embedded email, email attached .xls or .zip)

- **Report Filters (Status)**
- All
- Pass
- Pass High
- Fail
- Fail High
- Fail Low
- Not Tested
- Needs Retest
- Test Timed Out
- Certification Expired
- Leave of Absence

- No Test Required

- **Group**
- None
- Unit Serial
- Status
- Test Requirement
- Department
- Supervisor
- Shift

- **Schedule**
- Send Time
- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

- **Report Fields (Selectable)**
- Last Name
- First Name
- User ID
- Test ID
- Current Status
- Test Requirement
- Unit Serial Number
- RH
- Resistance Smock
- Resistance Single Wire
- Resistance Left Foot
- Resistance Right Foot
- Result Smock
- Result Single Wire
- Result Left Foot
- Result Right Foot
- Last Result
- Last Test Date
- Last Test Time
- Retest

- Department
- Shift
- Supervisor
- Certification Type
- Certification Due Date
- PTO

Test Data - ELITE DataSystems

ELITE DataSystems (EDS) host all historical test records, viewable and sortable.

- 20 Data Fields
- Custom Sort and Filtering

- **Sort Operators - Text Entry**
- User ID
- Test ID
- Department
- Supervisor

- **Sort Filters - Dropdown**
- Test Type
- Test Result (Status)
- Unit Serial Number
- Shift

- **Display Options**
- Date Range
- Toggle Unknown Users On/Off

- **Data Fields**
- Overall Result
- User ID
- Last Name
- First Name
- Test ID
- Test Time
- Test Date
- Test

- Resistance Smock
- Resistance Single Wire
- Resistance Left Foot
- Resistance Right Foot
- Result Smock
- Result Single Wire
- Result Left Foot
- Result Right Foot
- Device Serial Number (ELITE)
- Relative Humidity (RH)
- Supervisor
- Department

- [1]Botron recommends a regular annual calibration of test equipment. Over time the tester may need to be sent to the factory for a cleaning as dirt and grime can build up.

- [2]Not all card types are supported. The listed devices may have unique credentials we cannot scan or read.