



CaptivATE

CaptivATE 4.1

AUTOMATION SOFTWARE

FULLY AUTOMATED ELECTRICAL SAFETY TESTING

CaptivATE provides an off-the-shelf electrical safety test solution for accurately performing automated hipot, leakage current and functional tests. Testing is made simple and fast by automatically downloading the test setup, conducting the required measurements and outputting the test results. CaptivATE automates the process of electrical safety testing when used with Chroma's Hipot Testers, Electrical Safety Analyzers, Wound Component Scanners, LCR Meters, AC Power Sources and Sentinel Medical Automated Test Systems. CaptivATE also supports most legacy Quadtech instruments.

Testing Capability

Using CaptivATE software with a Guardian 19032 Safety Analyzer and an Internal Leakage Current Scanner, test functions include: AC or DC Hipot, insulation resistance, ground bond, earth leakage, patient leakage, patient auxiliary leakage or enclosure current leakage, as well as a functional check. Provides tests for ISO 60601/60950/61010/60335 requirements.

Automatic Loading Test Setup

The test setup can be loaded and verified by using a bar code scanner to identify both the product model and serial number(s). This reduces the possibility of an operator selecting the incorrect test for the product.

Increased Productivity

All the electrical safety and functional testing can be combined into one test system, thus eliminating the need for multiple setups and test stations. The intuitive graphic interface is easy and efficient for the test operator, reducing operator error.

Plant-Wide Implementation

Multiple installations of CaptivATE (plantwide or globally) can share the same database, providing a central data location that is updated in real-time. A single installation license is required for each test system.

Paperless Testing

Saves and prints all measurement results as well as product model number, serial number, time and date, test operator, test instrument used and test name. Prints and electronically stores stores product test certificates.

Password Protection

CaptivATE provides four levels of accessibility (Operator, Technician, Engineer and Administrator), providing control specific functions within the testing process.

USES

- Automated Production Testing
- Automated Assembly Line
- Quality Assurance Testing & Statistical Process Control
- Research or Lab Analysis
- Historical Database Archiving

FEATURES

- Self Executable Install
- Local or Shared Network Database
- Four Levels of Accessibility and Password Verification
- Intuitive Interface: Virtual Front Panel and Windows
- Virtually Unlimited Number of Tests - Up to 990 Steps Each
- Local or Remote Printing
- Test Device Setup with Serial Number Logging
- Automatically Load Tests at Beginning of Each Test
- Automatically Verify Test Program at Beginning of Each Test
- Historical Database Search
- Archived Test Report Search
- Separate Options for Saving and Printing Pass & Fail Reports
- Standard & Summary Reports in Word, XML, CSV Formats
- Batch Testing and Reports
- Create Aliases for Generic Modes
- Engineering Notation
- Text Fields for Operator Comments on Test Failures, Functional Check, and Virtual Pause
- Numeric Functional Check
- Document Retrieval



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System Requirements

Operating System

Microsoft Windows 7, 8, 10 (32-bit and 64-bit)

MS Office

2007, 2010, or 2013

Minimum Hardware Requirements

1.5GHz or faster 32-bit(x86) or 64-bit(x64) processor

1 Available USB port

Supported Instruments

11025 LCR Meter

Firmware 2.0 (or higher)

IEEE488 installed

16502 Milliohmmeter

Firmware 1.32 (or higher)

RS232 installed

Guardian 19020 / 19020-4 Multi-Channel Hipot Tester

Firmware 2.10 (or higher)

Note: Slave units of these models are not supported

RS232 installed

Guardian 19032 / 19032-P (500VA) Safety Analyzer

19032 FW 5.13 (or higher), 19032-P FW 5.01 (or higher)

Scanners: 4 Total

1 INT Scanner: 6000-01/A190302, -02/A190303 or -03/A190304 (Optional)

3 EXT Scanner: 5000-01, -02, -03 or -04 (Optional)

G45 40A GB Transformer (Optional)

Guardian 19032 with A190308

Firmware 5.13 (or higher)

Scanners: 5 Total

1 INT Scanner: 6000-07/A190308 (Standard)

4 EXT Scanners: 5000-01, -02, -03 or -04 (Optional)

G45 40A GB Transformer (Optional)

Hybrid 19035 AC/DC/IR/DCR Safety Analyzer

A190359 External Scanner

Firmware 1.14 (or higher)

Colored Scanner channels (red/high, black/low)

Guardian 19036 Wound Component Analyzer

Firmware 2.02 (or higher)

A190359 External Scanner

RS232 installed

Test modes supported AC/DC/IR/OSC/DCR

CaptivATE Enhanced for Medical

- Chroma 19200 / Matrix 8000 support (Medical)
- User Password Expiration Feature
- Microsoft SQL Server Support
- NI-USB 6525 Digital I/O Support
- IQOQ Protocol Documentation
- Supports IEC60601-1 Test Requirements



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Chroma 8000
 Electrical Safety Test System
 featuring our 19020 Multi-Channel Hipot
 Tester running on CaptivATE.
 Built for a major automotive company.

Guardian 19052 / 19053 Hipot Testers

Firmware 4.30 (or higher)

RS232 installed

Guardian 19055 / 19056 / 19057 Hipot Analyzers

19055 firmware 2.0 (or higher)

19056, 19057 firmware 1.02 (or higher)

19057-20 firmware 1.03 (or higher)

Guardian 19572 Ground Bond Tester

Firmware 1.00 (or higher)

RS232 installed

19200 / Matrix 8000 Scanning System

AC Line Module / 9 19200099

GBF-2 Module / 9 19200799

Earth Module / 9 19200499

AC Line 2 Module / 9 19200

General Module / 9 19200399

Switch Module / 9 19200899

AC Power Sources

6408-1: 800VA AC Source - FW 2.2 (or higher)

61601: 500VA AC Source - FW 1.05 (or higher)

61602: 1000VA AC Source - FW 1.05 (or higher)

61603: 1500VA AC Source - FW 1.1 (or higher)

61604: 2000VA AC Source - FW 1.2 (or higher)

61605: 4000VA AC Source - FW 1.2 (or higher)

Optional Equipment

Barcode Scanner



Quadtech Legacy Instruments

CaptivATE supports most of Quadtech's legacy test equipment. Please contact us to see which instruments apply.

