



Immunity Test Software

CoreLab

■ Please refer to the standards below.

Features

- > Compatible with Windows 7/8/10/11
- > Supports Ethernet interface and serial communication modes
- > Controls equipment in compliance with DO-160 series standards
- > Controls equipment in compliance with MIL-STD series standards
- > Controls equipment in compliance with GJB series standards
- > Controls electronic and electrical testing equipment
- > Waveform and standard library interfaces are automatically categorized and displayed according to the connected equipment series
- > Powerful scheduling and test sequence functions enable one-click remote test control
- > Supports single test reports and sequence test reports printing, with customizable test report templates
- > Emergency stop function with one-click control for enhanced test safety

Highlights

- > Multi-window graphical UI
- > Support parameters scheduled testing and test sequence, enabling one-click test with simple operation
- > Allows customer information settings, automatic test report generation, and report export for convenient recording and management of real-time test data
- > Intuitive interface for devices configuration and management, and visualized devices connection status
- > Saving and management of waveforms
- > Standard library and supported equipment updates

Introduction

CoreLab is 3CTEST’s integrated test software, combined with hardware to deliver a complete automated test system. It supports GB/T 17626 series, GJB 151, GJB 181, and DO-160 standard tests.

With Ethernet and serial communication support, CoreLab enables flexible system expansion, automated test sequence configuration, and one-click remote testing for improved efficiency and ease of use.

Application Areas



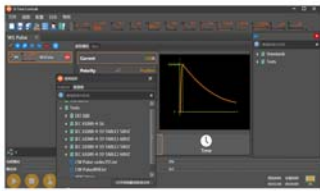
Detailed Introduction

Multi-window Graphical UI	Multiple test editing windows can be opened simultaneously, and waveform parameters can be easily interpreted through intuitive waveform visualization.	
Test Sequence Scheduling, One-key Remote Control	Support test sequence scheduling and one-click execution of multiple EUT tests. Parameter scheduling enables automated parameter variation testing, reducing manual configuration efforts.	
Support Test Printing	Reports can be automatically generated after test completion using predefined templates or user-defined templates. Users can also generate reports during the test to record specific test details.	
Intuitive interface for devices configuration and management, and visualized devices connection status	Device connections and management are displayed graphically in an independent window. The latest device connection status is displayed each time the PC software is opened.	

Detailed Introduction

Saving and management of waveforms

CoreLab supports saving and managing standard and user-defined waveforms. Saved waveform files can be renamed and categorized to facilitate data management and future applications.



List of Supported Standard Library

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| <ul style="list-style-type: none">> DO160 22.01 PIN> DO160 22.02 Single Stroke> DO160 22.03 Multiple Stroke> DO160 22.04 Multiple Burst> DO160 S17> DO160-E>GBT/GB-T 17626.34>GB-T 17626.4 2018>GBT 28471.2-2012 (4.3.5)> GJB 181-86> GJB 181A 2003> GJB 298 1987> GJB 736.11 1990> IEC 61000-4-16> IEC 61000-4-19> JEDEC JESD22 A114> JEDEC JESD22 A115> MIL CS106> MIL CS115 | <ul style="list-style-type: none">> MIL CS116> MIL-STD-704> DO160 S19> IEC 61000-4-2> IEC 61000-4-4> IEC 61000-4-5> IEC 61000-4-8> IEC 61000-4-9> IEC 61000-4-10> IEC 61000-4-11> IEC 61000-4-12> IEC 61000-4-18> IEC 61000-4-29> IEC 61000-4-34>IEC 61730-2 2016> IEC 62052-11-2020> TBT 3498 2018> HB 20326.8- 2016> UL 60730> GD22 2015> SAE ARP5416A, Chapter 6.1.6. |
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List of Supported Devices

■ CCS Series

CCS 500
CCS 600
CCS 800
CCS 1000

■ CWS Series

CWS 60G
CWS 120G
CWS 120
CWS 600/800/1000
CWS 600/800/1000G
CWS 800N/1000N
CWS 800GN/1000GN
CWS 1500N1 & CWS 1500N2
CWS 2000N1 & CWS 2000N2
CWS 600CT
CWS 600T
CWS 2000C
CWS 2000T

■ DCP Series

DCP 1800

■ DOS Series

DOS-CS116
DOS 300
DOS 100MF
DOS 400F

■ DMS Series

DMS 200A
DMS 200B

■ EDS Series

EDS 10IC
EDS 20H
EDS 30S
EDS 30TR
EDS 300
EDS MAX 16
EDS MAX 20

■ EFT Series

EFT 400S/500S
EFT 500
EFT 500TC
EFT 700G
EFT 700T

EFT 700S

EFT 800G
EFT 800T
EFT 800S

■ ETS Series

ETS 160MB

■ ISG Series

ISG 1800

■ LSG Series

LSG 4606

■ LSS Series

LSS 160SM6
LSS 160SM8
LSS 160SS

■ MFS Series

MFS 400/1200
MFS xxAP
MFS 1000AS1.5

■ PDG Series

PDG 50C50S

■ PFS Series

PFS 0505D
PFS 0610D
PFS 181
PFS 22xx S/SD/D/SVD
PFS 2216SV-12
PFS 3016D
PFS XXT1VD
PFS 3830T3
PFS xxT1

PFS 1110DC

■ PMF Series

PMF 120

■ PVSG Series

PVSG 2500
PVSG 3000

■ RWS Series

RWS 600
RWS 600G
RWS 600GUL

■ RSG Series

RSG xx(DMS)

List of Supported
Devices

■ SxCxx Series S6C150 S6C600 ■ TPS Series TPS-CS106 TPS-CS115 TPS-160S17	■ VDG Series VDG 298 ■ VSG Series VSG 335 ■ VSS Series VSS 1275 VSS 298 ■ ETS Series ETS 160W3
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