

Keysight U2941A Parametric Test Fixture

Data Sheet



Introduction

The Keysight Technologies, Inc. U2941A parametric test fixture is designed to complement usage of the Keysight U2722A USB modular source measure unit in the testing of semiconductor components, including SMT and DIP ICs.

The bundled Keysight Parametric Measurement Manager software also supports the Keysight U2751A USB modular switch matrix when used with the U2722A.

Features

- Closed lid minimizes ESD on sensitive circuits and components
- Up to 3 source/measure channels supported
- Different socket modules to match a wide variety of pin configurations
- Assembly PTFE plate for low-current measurements
- Bundled Keysight Parametric Measurement Manager software eases set-up, testing and data recording

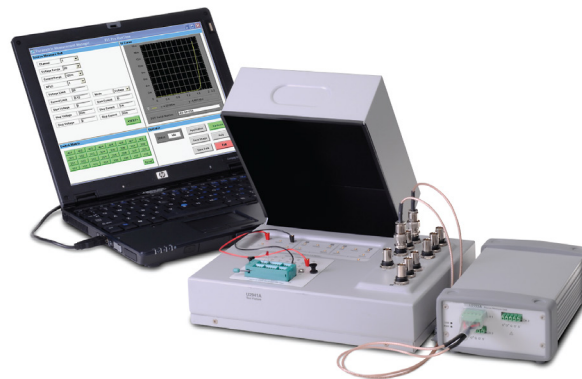


Figure 1. Sample setup of the U2941A connected directly to the U2722A source measure unit, and fastened with the DIP socket module.

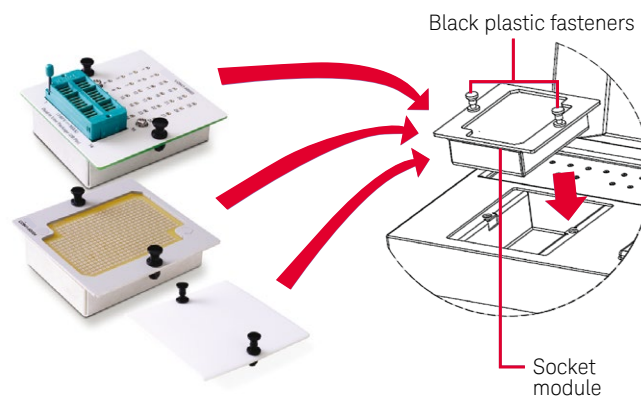


Figure 2. Socket modules are interchangeable to match pin configuration of device-under-test (DUT).

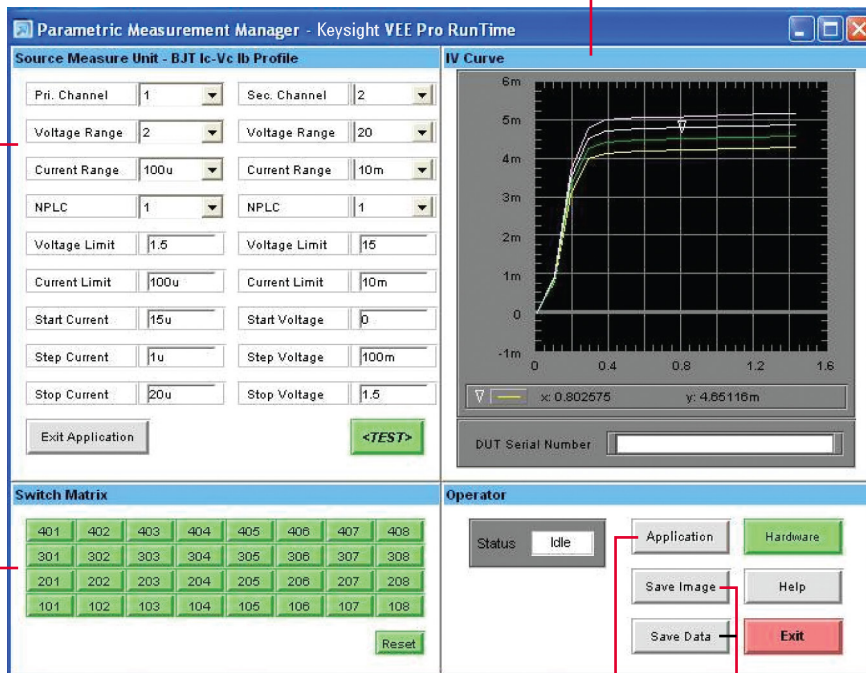
Features of the Keysight Parametric Measurement Manager Software

The Keysight Parametric Measurement Manager software comes bundled with the U2941A parametric test fixture. The software helps kick start tasks sooner with the below features:

- Out-of-box configuration of instruments for easy set-up
- User-friendly graphical user interface
- IV curve plotting with various graph tools, including autoscale, zoom and markers
- Saving of IV curve data to text file format
- Saving of IV curve graph to JPEG file format
- Print graph function

Displays Main and Application test set-ups of the U2722A

Displays IV curve plot



Provides relay switching functions for single or multiple channels of the U2751A

Enables quick set-up of specific application tests (diode forward/reverse IV tests and resistance measurement) from the library

Saves IV curve plot image and data to JPEG and TXT files, respectively

Specifications and System Requirements

Specifications

The following specifications are valid for 23 °C ±5 °C and <70% relative humidity.

Electrical specifications

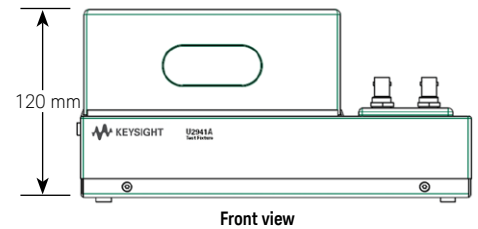
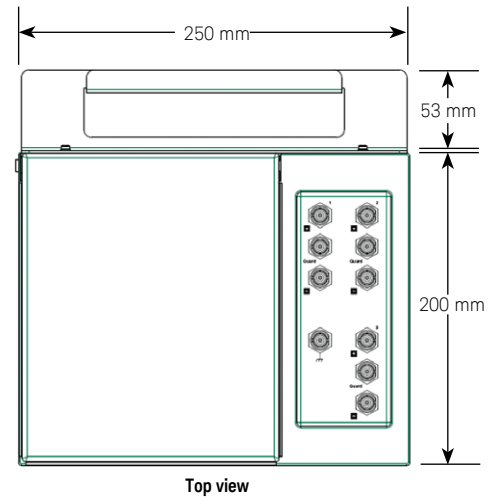
Voltage rating	60 VDC
Current rating	1 A

Environmental specifications

Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 70 °C
Operating humidity	20% to 85% RH non-condensing
Storage humidity	5% to 90% RH non-condensing
Altitude	Up to 2000 m

Physical specifications

Dimensions (WxDxH)	250 mm × 200 mm × 120 mm
Weight	1.33 kg (approx.)



Minimum system requirements

Hardware

Processor	1.6 GHz Pentium IV or higher
RAM	512 MB (1.0 GB or higher recommended)
Hard disk space	1.0 GB free disk space at runtime
Display resolution	1024 × 768 recommended

Operating system and browser

Operating system	- Windows XP Professional or Home Edition, Service Pack 1 or later; or - Windows 2000 Professional, Service Pack 4 or later
------------------	--

Browser	Microsoft Internet Explorer 5.01 (6.0 or higher recommended)
---------	--


Software

Keysight IO Libraries Suite ¹	Version 15.0 or higher
Keysight VEE ²	Runtime version 8.5, patch 8.5.1
Keysight Measurement Manager ³	Version 1.6 or higher
Microsoft .NET Framework ¹	Version 1.1 and 2.0






1. Available on Keysight Automation-Ready CD
2. Bundled with Keysight Parametric Measurement Manager CD
3. Bundled with Keysight U2722A USB modular source measure unit or Keysight U2751A USB modular switch matrix

Ordering Information






Parametric test fixture

- U2941A
- 
- Items shipped as standard with parametric test fixture:
- Assembly PTFE plate
 - 28-pin dual-in-line package (DIP) socket module
 - 0.1-inch universal socket module
 - 0.075-inch universal socket module
 - 0.05-inch universal socket module
 - Pin plug-to-pin plug cables, black (4 pcs)
 - Pin plug-to-pin plug cables, red (4 pcs)
 - Pin plug-to-pin plug cables, blue (4 pcs)
 - Pin plug-to-miniature clip cables, black (4 pcs)
 - Pin plug-to-miniature clip cables, red (4 pcs)
 - Pin plug-to-miniature clip cables, blue (4 pcs)
 - PCB jumper pin
 - BNC to two-wire cable, 1 m (3 pcs)
 - Keysight Parametric Measurement Manager CD (includes installation and operating guides)

Socket modules

- U2941A-201
- 
- Assembly PTFE plate
- Insulation board with minimal leakage current: suitable for extremely low-current measurements.
-
- U2941A-202
- 
- 28-pin dual-in-line package (DIP) socket module
- Lever actuated zero insertion force (ZIF) socket
-
- U2941A-203
- 
- 0.1-inch universal socket module
- 0.1-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit
-
- U2941A-204
- 
- 0.075-inch universal socket module
- 0.075-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit
-
- U2941A-205
- 
- 0.05-inch universal socket module
- 0.05-inch pitch: suitable for virtually any device such as components, DIP IC, or small scale circuit

Cables

- U2941A-101
- 
- Pin plug-to-pin plug cable, black
-
- U2941A-102
- 
- Pin plug-to-pin plug cable, red
-
- U2941A-103
- 
- Pin plug-to-pin plug cable, blue
-
- U2941A-104
- 
- Pin plug-to-miniature clip cable, black
-
- U2941A-105
- 
- Pin plug-to-miniature clip cable, red
-
- U2941A-106
- 
- Pin plug-to-miniature clip cable, blue
-
- U2941A-107
- 
- BNC to two-wire cable, 1 m

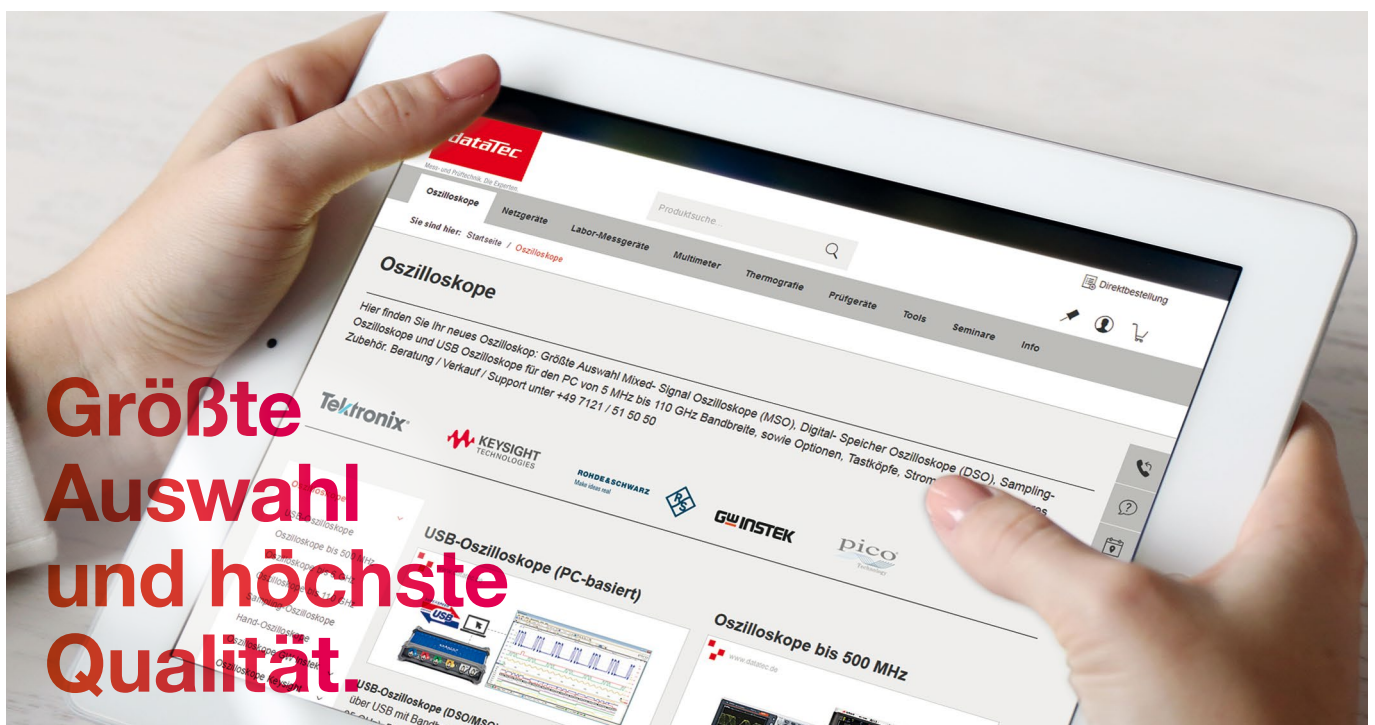
Deutschlands größter B2B-Onlineshop für Mess- und Prüftechnik.



Mess- und Prüftechnik, Die Experten.

Ihre Vorteile:

- > Eine unschlagbare Auswahl namhafter Hersteller
- > Hohe Lagerkapazität und kurze Wege
- > Bundesweite Lieferung und schnelle Zustellung meist innerhalb eines Tages
- > Mehrere tausend Mess- und Prüfgeräte
- > Tagesaktuelle Preise und Promotions
- > Warenkorbrabatt bei Online-Bestellung
- > Versandkostenfrei ab € 50,-
- > Dokumenten-Download u. v. m.



Wir haben die Lösungen für Ihre Mess- aufgaben.

dataTec

Mess- und Prüftechnik, Die Experten.

Ihre Vorteile:

- > Diplom-Ingenieure, Elektronik- und Elektrotechniker
- > Langjährige Praxiserfahrung und hohe Kompetenz
- > Bundesweit über 20 praxiserfahrene und herstellerzertifizierte Vertriebsingenieure im Außendienst bei Ihnen vor Ort

Experten für:

- > Oszilloskope
- > Spektrum- / Netzwerkanalysatoren
- > Netzgeräte / Stromversorgungen
- > Thermografie / Temperatur
- > Prüfgeräte VDE / Netzanalyse
- > u. v. m.



Mit unserer Akademie kommen Sie weiter.

dataTéc

AKADEMIE

Ihre Vorteile:

- > Wissenstransfer zu sämtlichen Bereichen der Messtechnik, immer auf dem neuesten Stand
- > Vielfältiges Seminarangebot mit renommierten Dozenten, in Theorie und Praxis
- > Modernste Räumlichkeiten mit bester technischer Ausstattung

Seminarthemen:

- > Prüfgeräte VDE
- > Oszilloskope
- > Labormesstechnik
- > EMV- / HF-Messtechnik u. v. m.

Alle aktuellen Preise und Termine unter:
>>> www.datatec.eu/akademie

Technische Seminare und Veranstaltungen.

