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# LA-2025/2050

Stand-Alone Logic Analyzer Series / Provide the best measurement solution/

## Introduction

The LA-20 Series helps minimize users' project risk by providing the most reliable, accurate data capture and a complete view of system behavior. These products are ideally suited for users on hardware/ software debugging, parametric, mixed signal testing, and complex debugging. Moreover, their compact size and ability to connect with a PC makes them an ideal solution at remote sites.



- Standard Accessories**
- Main unit .....x1
  - Data pod .....x4
  - Lead set.....x4
  - Testing probe (testing hook) .....x36
  - AC power cord .....x1
  - User manual .....x1
  - CD.....x1  
(Driver and user manual are included)
  - USB cable.....x1

## Features

- External (synchronous) and internal (asynchronous) capture Offer a more convenient environment for engineers.
- Provide three sets of searching data functions and six cursor marks. The timing of each trigger point can be shown by the cursor mark.
- Binary code and hexadecimal List mode (State) display.
- Able to save measuring data and waveform results in stand-alone mode.
- Offer I2C, SPI, UART and CAN signal decoding function on PC.
- Provide various signal trigger and capture Total of four kinds of trigger modes including Pattern/Edge/AND/OR.
- Pre-trigger, post-trigger, 3 level trigger, and continued-trigger functions allow users to operate easily.
- Bus analysis and glitch capture functions:
  - 2M Bytes~4M Bytes long memory depth each CH memory depth is up to 512Kbits~1Mbits.
- The adjustable sample rate size can be set by users, which avoids long capturing time.
- Provide "Trigger Counter" and "Pulse Wide Trigger" function.
- High-speed Zoom In / Zoom Out techniques.
- Smart software provides text file for saving the Binary Code of waveform results.
- Compact, portable for engineers to perform debugging.
- 5.6 inch TFT color LCD display.
- USB 2.0 interface for PC link function, which can connect with PC for user to save, analyze, view and printout.

## Specification

	LA-2025	LA-2050
Model	LA-2025	LA-2050
Timing Analysis	250MHz	500MHz
State Analysis	200MHz	200MHz
Bandwidth	200MHz	200MHz
Channels	32CH	32CH
RAM Size	2M Bytes	4M Bytes
Storage Depth per Channel	512K bits x 32CH	1M bits x 32CH
Maximum Input Voltage	±15V	±15V
Threshold Range	-4V +4V	-4V +4V
Data Skew (Channel to Channel)	4ns typical (±4ns Max)	2ns typical (±2ns Max)
Trigger Condition	Pattern / Edge / AND / OR	Pattern / Edge / AND / OR
Trigger Counter	1~255	1~255
Pulse Width Trigger	YES	YES
Glitch Capture	4ns	2ns
Communication	USB 2.0	USB 2.0
Power Source	110V AC 240V AC	110V AC 240V AC
Frequency Range	50 60Hz	50 60Hz
Power Consumption	18W (20W Max)	18W (20W Max)
Operating Temperature	0 45	0 45
Dimension	31cm x 15cm x 9cm	31cm x 15cm x 9cm
Weight	3.8 g	3.8 g

## PC System Requirement

Operating System Windows 98/2000/XP/Vista/32

# PLA-1016/2532

PC-Based Logic Analyzer / Provide the most economical measurement solution /

## Introduction

The PLA Series (PC-Based logic analyzers), provides digital software and hardware designers the ability to quickly capture the complex signals in a digital environment that requires analysis and/or debugging. Furthermore, its compact size and USB connectivity to a laptop makes PLA an ideal solution for field applications.

## Features

- Internal (asynchronous) and External (synchronous) capture Offer a more convenient environment for engineers.
- The timing of each trigger point can be shown by the cursor mark.
- Binary code and hexadecimal List mode (State) display.
- Able to save measuring data and waveform results.
- Provide various signal trigger and capture Pattern/Edge/AND/OR, 4 kinds of trigger modes.
- Provide various signal trigger and capture Total of four kinds of trigger modes including Pattern/Edge/AND/OR.
- Provide Bus analysis and glitch capture functions.
- 256K Bytes ~ 2M Bytes long memory depth each CH memory depth is up to 128Kbits ~ 512Kbits.
- The adjustable sample rate size can be set by users, which avoids long capturing time.
- "Trigger Counter" and "Pulse Width Trigger" function.
- High-speed Zoom In/Zoom Out function.
- Smart software provides text file for saving the Binary Code of waveform.
- USB 2.0 interface for PC link function, which can connect with PC for user to save, analyze, view and printout.
- Powered by USB.



### Standard Accessories

- Main unit.....x1
- Lead Set
- 16CH.....x1
- 32CH.....x2
- CD.....x1
- (Driver and user manual are included)
- USB cable.....x1

### Optional Accessories

- Testing probe (testing hook)

## Specification

Model	PLA-1016	PLA-2532
Timing Analysis	100MHz	250MHz
State Analysis	100MHz	100MHz
Bandwidth	100MHz	100MHz
Channels	16CH	32CH
RAM Size	256K Bytes	2M Bytes
Storage Depth per Channel	128K bits x 16CH	512K bits x 32CH
Maximum Input Voltage	±5V	±5V
Threshold Range	-4V +4V	-4V +4V
Data Skew (Channel to Channel)	10ns typical	4ns typical
PC Link Interface	USB 2.0	USB 2.0
Temperature	0 45	0 45
Dimension	15cm x 8cm x 3cm	15cm x 8cm x 3cm
Weight	230g	240g

## PC System Requirement

Operating System	Windows 98/2000/XP/Vista/32
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# LPP-3025T

Programmable DC Power Supply Series ! Provide two completely separate power output !

## Introduction

LPP-3025T provides a higher stability in terms of traditional Programmable DC Power Supply. LPP-3025T, linear programmable DC Power Supply Series support USB PC-Link and two completely separate power outputs. With the various characteristics, LPP-3025T is the best choice of power supplies for engineers. With the functions of the power supply of LPP-3025T, it provides two completely separate power output which is able for series or parallel connection; other than the common power supplies on the market of positive/ground/ negative output. In addition, LPP-3025T supports low-voltage digital circuits, also it is able to switch voltage among 1.8V~5.0V. With its characteristics of stability and high-speed twinkling reaction, LPP-3025T provides high quality at a very economical price.

## Features

- Provide two completely separate power outputs. Users can obtain higher voltage, current, and positive & negative voltage applications by using series or parallel connection.
- Support low-voltage digital circuits Provides fixed power output also it is able to switch voltage among 1.8V~5.0V.
- OVP (Over voltage protection)/OCP (Over current protection) functions: For each programmable output, users can set desired protective voltage or current value.
- V.Set Limit function Sets the limit of the maximum voltage.
- When keypad is locked, user can not change the setting of voltage and current. The LPP will be locked even if user restarts the LPP.
- Supply high resolution of V (voltage)/ I (current) for measurement: The resolution of V (voltage)/I (current) can raised up to 10mV/1mA.
- Memory storage Memorizes up to 10 formats setting of OCP, OVP and V.Set Limit.
- USB Interface: Use USB interface to offer PC-Link function to be able to write the control programs, save data and PC-Remote with simple command text format.



## Standard Accessories

Main unit.....x1  
 AC power cord.....x1  
 USB cable.....x1  
 DC output cable.....x3  
 CD.....x1  
 (Driver and user manual are included)

## Optional Accessories

DC output cable set

## Specification

Operating Temperature	0 45
Power	AC 110V/220V 50Hz/60Hz
Communication	USB
Dimension	22.5cm x 31cm x 10cm
Weight	6.5Kg
Programmable DC Output Ratings	
Voltage	0.1V 30V(Max:30.99V)
Current	0.01A 2.5A(Max:3.000A)
Fixed Output Ratings	
Voltage	OFF/1.8V/2.5V/3.0V/3.3V/5.0V
Current	"3A
Ripple and Noise (20Hz~20MHz)	
Voltage	< 1mVrms/8mVp-p
Current	< 2mArms/10mA <sub>p-p</sub>

# mPP Series

## Mini Programmable DC Power Supply Series

### Introduction

mPP series (Mini Programmable DC Power Supply) is the most compact linear power supply. The mPP series operates in high performances and pertains reliability. Moreover, it offers high stability for applications that need precise output control and low noise.

### Features

- Support low-voltage digital circuits  
Provide fixed power output also it is able to switch voltage among 1.5V~5.0V. (mPP - xxxT and mPP - xxxxD series)
- Provide two completely separate power outputs. Users can obtain higher voltage, current, and positive & negative voltage applications by using series or parallel connection. (mPP - xxxT and mPP - xxxxD series)
- OVP (Over voltage protection)/OCP (Over current protection) functions: For each programmable output, users can set desired protective voltage or current value.
- V.Set Limit function Set the limit of the maximum voltage.
- When keypad is loked, user can not change the setting of voltage and current. The mPP will be locked even if user restarts the mPP.
- PC control software can display the waveform of voltage/current It can record 2~4 datas in one second which allows users to view and analyze long period variations of voltage & current.
- Compact and high power output  
Although it is only one-third of size compared to the traditional power supply, it can output 225Watts; which provides a better working space for the engineers and production line.
- Supply high resolution V, I for measurement The resolution of V (voltage) / I (current) supports up to 1mV/1mA, which provides more accurate measurements in circuit designs, verifications, and quality tests.
- Memory Storage Memorizes up to 100 formats setting of OCP, OVP and V.Set Limit.
- Remote control with PC interface Using USB interface to offer PC-Link function (some models uses RS-232) able to write control programs, save data, and PC-Remote.



### Standard Accessories

- Main unit.....x1
- CD.....x1  
(Driver and user manual are included)
- AC power cord.....x1
- USB cable.....x1  
(Part of model is RS-232 cable)
- DC output cable  
(It is according to the model 1~3 set)

### Optional Accessories

- TUSB to RS-232 cable
- DC output cable set

### Specification

Model	mPP-3040D	mPP-3035T	mPP-6020T
Interface Standard	RS-232	USB	USB
Operating Temperature	0 45		
Power	110V/220V ; 50Hz/60Hz		
Dimension	10.7cm x 28cm x 14.8cm	22.5cm x 31cm x 10cm	22.5cm x 31cm x 10cm
Weight	5.2 kg	6.5 kg	7.2 kg
<b>Output Range</b>			
Voltage	0.1V~30V(Max:30.999V)	0.1V~30V(Max:30.999V)	0.02V 60V(Max:61.000V)
Current	0.01A 4.000A	0.01A 3.500A	0.01A 3.000A
<b>Fixed Output Range</b>			
Voltage	OFF / 1.5V/ 1.8V / 2.5V / 3.0V / 3.3V / 5.0V		
Current	~3A		
<b>Ripple &amp; Noise (20Hz~20MHz)</b>			
Voltage	≤ 1mVrms / 5mVp-p	≤ 1mVrms / 5mVp-p	≤ 2mVrms / 10mVp-p
Current	≤ 2mArms / 6mAp-p	≤ 2mArms / 6mAp-p	≤ 2mArms / 10mAp-p

### Series Model

Model	Output Range	Resolution	Fixed Output Range	Output Watt
mPP-3040D	30V,4.0A (Single)	1mV, 1mA	1.5V~5.0V,3A	135W
mPP-3035T	30V,3.5A (Dual)	1mV, 1mA	1.5V~5.0V,3A	225W
mPP-6020T	60V,2.0A (Dual)	2mV, 1mA	1.5V~5.0V,3A	255W

# mPB-3040Q

## Multi-Channel Programmable Power Supply Series

### Introduction

The mPB Series (Multi Programmable Power Supply) provides the functions of easy to control the voltage and current of each output and able to read the current consumption at anytime via USB and PC connection. In the meanwhile, it is the best choice for establishing the testing station in the production line or collocating with other precision instruments or precision burn-in system associating with the standard 19" cabinets.



### Standard Accessories

Main unit.....x1  
AC power cord.....x1  
DC output cable.....x4  
USB cable.....x1

### Features

- **Supply high resolution V1 I for measurement:** The resolution of V (voltage)/ I (current) supports up to 1m V/1mA, which provides more accurate measurement in circuit design, verification and quality test.
- **Provide quadruple programmable power output:** Let users obtain higher voltage & current and positive & negative voltage applications by using series & parallel connection.
- **Remote control with USB interface:** Provide USB interface to offer PC-Link function to let users be convenient to control program writing, data saving and PC-Remote.
- **Completely extending function:** Single PC can connect to multi mPB series to extend more sets of power supply via USB interface.
- **Use easy command text format to write control programs:** Provide multi functions for on/off, limit of output voltage and current, and the current consumption for voltage and current.
- **Adopt standard 19" cabinet & the 3U height:** Users can combine testing equipments according to the demands.

### Specification

Output DC Power Range	Voltage : 0.01V~30V (up to 30.999V) Current : 0.01A~4A
High Resolution Current	Voltage : 1mV Current : 1mA
Ripple and Noise (20Hz~20MHz)	C.V Voltage : <1mArms/5m Vp-p C.V Current : <2mArms/6m Ap-p
4 Independent programmable output model able to provide series connection	Series connection (Output voltage up to 30V x 4) Parallel connection (Output current up to 4A x 4)
AC-IN	220V/50Hz
Communication	USB
Dimension	43cm x 56cm x 13cm
Weight	17.5 Kg
Operating Temperature	0 45

# AH-400

## High-Speed Automated Programming System

### Introduction

AH-400 is an expeditious automated programming system, which offers a special design for programming tiny devices packaged in Tube/Tape. Its unique technology design has a rotary robotic arm to pick up and position devices. The AH-400 contains a high-speed programmer that can bring AH-400 into its fullest potential, furthermore its original UPH has been upgraded with the efficient programming system – SU-6000.



### Standard Accessories

- Main unit.....x1
- SU-6000 Gang-4
- Programmer .....x2sets
- User manual.....x1
- CD.....x1
- (Windows XP OS: IPC driver and operating software are included )
- Fail box
- PU coiling box

### Features

- **High-performance** Not only meet a variety of input and output options with tube and tape, also perform programming, marking and packaging.
- **Intelligent Operation** Automatic loading, positioning, programming, marking and sorting through system control.
- **High-speed programming system:** Built-in SU-6000 Gang 4 programmer to ensure high quality and stability of the programming system.
- **Marking machine:** System offers dots, number or character marking for the ICs packaged in tube or tape.
- **Convenient maintenance** The special modularized design grants an easy access to exchange the packaging method from tube to tape or vice versa.
- **Powerful operation software** User-friendly and powerful operation software, which can record all of the production details. The saved results will be used for the next reboot, as well as tracking qualities and productivities.

### Optional Accessories

Tube In	Tube Loader STI-4-xxxkit (xxx:IC size)about 3.5kg
Tube Out	Tube unloader STO-4-xxxkit (xxx:IC size)about 4.5kg
Tape In	Power Feeder ATF-1-xxxkit (xxx:IC tape width) , about 2kg
Tape Out	Taping Machine ATM-100, about 30kg
Mark Machine	Mark Tube out / Tape out devices (MK-1)
Socket Press Block and Nozzle	In accordance with IC size to choose.
Test Socket	We strongly recommend it is better to prepare consumables for replacement.
Precissor	AH-400-08-xxx (xxx : IC size)
Programming Adaptor	Depend on customer's request.

□ Please contact Leap sales for a correct P/N when users need to purchase accessories.

The innovative design of AH-400 obtains Patent certificate of Improvement in picking & positioning system of IC programming instrument.

Patent certificate No.: M 306360 in Taiwan

Patent certificate No.: ZL2006-2-0137588.6 in China

# APE-3200A

## Universal Automated Programming System

### Introduction

The APE-3200A is the most effective automated system for high-density device programming in the market. It is a unique design and technology of the dual axle parallel and synchronous driving for fast and reliable picking and positioning devices, which maximizes the total throughput.

### Features

- High-speed programming system**  
 Built-in SU-6000 Gang 4 programmer to ensure high quality and stability of the programming system.
- Excellent performance:** Support tray packaging, tape packaging, etc. It completely reaches the goal of automatic production.
- High-efficiency throughput:** the UPH can be raised up to 1000.
- Multi-programming interface**  
 Depend on the timing of IC programming, the APE-3200A is able to set up 1-8 sets of SU-6000 programming module, each module has 4 device modules to shorten the waiting time of programming. It can contain 32 devices each time.
- Convenient for switching the adaptor** Universal pin driver design, it is able to utilize the same module for the same package. In case of changing sockets, users can simply plug the sample in/out.
- Intelligent Operation** The result of data setting and testing are able to be saved automatically, it will be used for the next reboot, as well as tracking qualities and productivities. All-in-one control system, which includes automatic loading, positioning, pin detection, testing, programming, pass / fail discrimination, and unloading.
- Built-in SU-6000 Gang programmer**  
 Offer high speed and stable programming system.
- Interface supporting** It is flexible for selecting tube or tape, also loading and unloading equipments.
- Unique structure of GANTRY and TWIN DRIVER, together they are in conjunction with high-speed programming system to offer the most effective IC programming solution.
- Offer a departure revising "IC Devise Precissor" function.



- #### Standard Accessories
- Main unit.....x1
  - SU-6000 Gang programmer .....x2
  - User manual.....x1
  - CD.....x1  
( Windows XP OS: IPC driver and operating software are included )
  - Fail box
  - PU colling box

### Optional Accessories

Tube In	Tube Loader STI-4-xxxkit (xxx:IC size)about 3.5kg
Tube Out	Tube unloader STO-4-xxxkit (xxx:IC size)about 4.5kg
Tape In	Feeder ATF-1-xxxkit(xxx:IC tape width) , about 2kg
Tape Out	Taping Machine ATM-100, about 30kg
Tray In	Auto tray move in ATL-10 (JEDEC), about 30kg.
Tray Out	Auto tray move out ATU-10 (JEDEC), about 30kg.
Mark Machine	Mark Tube out / Tape out devices (MK-1)
Socket Press Block & Nozzle	In accordance with IC size to choose.
Test Socket	We strongly recommend it is better to prepare consumables for replacement.
Other Loading and Unloading Devices	Depend on customer's request.
Programming Adaptor	Depend on customer's request.

□ Please contact Leap sales for a correct P/N when users need to purchase accessories.

# AH-600

## Automated Device Testing / Programming System

### Introduction

The programmable new type of Oscillator with high performance was created, it simplifies the production flow, also shortens the lead time for the customized products. Moreover, the oscillator distributors do not need to suffer the pressure piling up from the costs of storehouses. AH-600 is the first automated system for SMD parameter testing and frequency programming in the market. It's a unique design and technology for the rotary robotic arm to pick up the devices, with the affiliation of the high-speed programmer, granting AH-600 maximizing the throughput and yield rate.

### Features

- Exchange component packaging fast :** AH-600 is able to depend on the diversity of SMD packages to exchange the feeder, component holder, and the probe module rapidly. AH-600 can always maximize the throughput.
- Intelligent Operation** The result of data setting and testing are able to be saved automatically, it will be used for the next reboot, as well as tracking qualities and productivities. All-in-one control system, which includes automatic loading, positioning, pin detection, testing, programming, pass / fail discrimination, and unloading.
- Stable programming system :** Built-in a high speed and stable Oscillator programming module to ensure high quality and production programming, which satisfies the customers.
- Powerful operation software** User-friendly and powerful operation software, which can record all of the production details. The saved results will be used for the next reboot, as well as tracking qualities and productivities.
- Convenient maintenance :** Programming and loading systems can be replaced fast and are convenient to maintain. Moreover, because of the unique modular design, it is simple and convenient for maintenances and replacements.



### Standard Accessories

Main unit.....	x1
Oscillator programming module.....	x3
ADF-600 automated device feeder.....	x1
Anti-Static Fan.....	x1
SMT class Nozzle.....	x12
UPS .....	x1
User manual.....	x1
CD.....	x1
(Windows XP OS: IPC driver and operating software are included)	
PU colling box	

### Optional Accessories

Feeder Track	(3.2 x 2.5),(2.5 x 2.0) (7.0 x 5.0),(5.0 x 3.2)
SMT Class Nozzle	YV100 X 0805/0603 YV100 X 2.2/1.5
Component Holder	(3.2 x 2.5 and 2.5 x 2.0 Commons) (7.0 x 5.0 and 5.0 x 3.2 Commons)
Probe Module	(3.2 x 2.5), (2.5 x 2.0) (7.0 x 5.0), (5.0 x 3.2)
Probe	Pin no.0 (3.2 x 2.5 and 2.5 x 2.0 Commons) Pin no.1 (7.0 x 5.0 and 5.0 x 3.2 Commons)

- Application of the industry :** In the point of views of different SMD component industries (Crystal, Oscillator, MLCC, Fuse, the inductance, resistance and the voltage transformer), proceeding towards the customized automated production. For instance, parameter, frequency programming tests, and electric characteristic testing, etc. Meanwhile, it can save customers' valuable time and improve the output performance.
- Provide Counter function :** Display the frequency of DUT when testing and programming. Allowing users to control the condition of DUT at any time.
- High-efficiency throughput :** AH-600 UPH can be raised up to 2400~2600, monthly outputs can reach 1.2KK easily.

\* UPH2400 x 20H / per day x 25 days/per month =1.2KK

# LEAPER-S

## Oscillator Programmer

### Introduction

LEAPER-8 offers engineers to rapidly produce their own custom frequency oscillators. It's the best selection for engineers to do various experiments.



### Standard Accessories

Main unit.....x1  
USB cable.....x1  
CD.....x1  
(Driver and user manual are included)

### Optional Accessories

Socket board  
DC 12V power adaptor

### Features

- Support Oscillator frequency test.
- Provide setting Oscillator programming frequency.
- High performance, low cost, portable and professional design.
- USB interface to link with PC.
- Provide clock adjustable function and auto calibration function.
- User-friendly operation software supports Windows 98/2000/XP.

### Specification

Frequency Range	47~63Hz
Dimension	16cm x 11cm x 4.5cm
Weight	500g
Operating Altitude	up to 5000m
Operating Humidity	90%(non-condensing)
Temperature	+5 ~ +45
Socket Board	Socket Board without sockets
Communication	USB 2.0
Signal Specification	Vcc Voltage 1.0V~6.0V 100mA Vpp Voltage 1.0V~12.0V 50mA
Frequency Measurement Range	10Hz~200MHz
Program Options	Output Enable / Disable TTL/CMOS Output (3.3V , 1.8V)

### PC System Requirement

Operating System	Windows 98/2000/ME/XP
Memory Hard	128MB
Disk	up to 30MB
Communication	USB 2.0

# IWT-5000

## Impulse Winding Tester

### Introduction

IWT-5000 winding tester is a coil (such as voltage transformer, inductance, motor) testing instrument that tests self-insulating property of the coil. The influences of winding materials, magnetic materials, and framework, also extra fabrication decreases the insulating property of coil layers along with the jumpers and jacks. The IWT-5000 adopts the technology of high-speed sampling rate to store the sample waveform of the standard (master) coil in the instrument. By comparing the waveform results of the test coil to the master, the defect in the DUT can be found easily. Moreover, the IWT-5000 judges the quality of the testing coil according to the parameter set by the user.

### Features

- With 500V~5000V programmable impulse voltage, it is capable of low-energy testing, without damaging the coil.
- Provide high-speed sampling rate of 100MHz, which enhances the testing ability for partial discharges.
- 320 x 240 color LCD display clearly for the user to view waveform and test results.
- Provide user-friendly operation interface.
- Low inductance during impulse testing, minimum to 20uH.
- Provide 4 kinds of detection modes: AreaSize Comparison, DiffZone Comparison, Corona Amount Comparison, and Corona Number Comparison.
- The comparative result shows Pass/Fail directly, informing operators the detect test result within a short period of time.
- Offer measurement functions for voltages, timing and frequencies, which provide user a carry-out analysis in detail.
- Able to save 100 sets of standard waveform result of the coil for users to download and implement into testing.
- To make analysis easier, IWT-5000 offers USB 2.0 interface to connect with PC for users to upload or download the parameters of waveforms results.



### Standard Accessories

- Main unit.....x1
- High voltage test line.....x1set
- User manual.....x1
- AC power cord.....x1
- USB cable.....x1
- CD.....x1  
(Driver and user manual are include)

### Optional Accessories

- RS-232 Cable

### Specification

Testing Voltage	500V 5000V(100V Steps)
Output Energy	0.25J (Max)
Inductance Range Of Test Coil	20μH and above
Sampling Rate	8 bit /10 ns (100MHz)
Sampling Memory Depth	5000 Byte
Input Resistance	10MΩ
Display Measure	5.6 inch Colored LCD (320 x 234)
Comparison Measures	AreaSize Comparison, DiffZone Comparison, Corona Amount, Comparison Corona Number Comparison
Storage Waveforms	100 Sets of waveforms
Comparison Output	Pass/Fail, beeping
Communication	1. USB 2.0 2. RS-232 or I/O
Power	110V/220V AC
Frequency Range	50/60Hz
Dimension	31cm x 15cm x 18cm
Weight	5.3Kg
Temperature	25 40

### PC System Requirement

Operating System	Windows 98/2000/XP/Vista/32
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- Provide the control function for external I/O, such as the Handler adopts standard D SUB 9-pin connector for connecting with automatic or semi-auto testing system.