

Ur Hongxin Testing Technology (Shenzhen)Co.,Ltd.





Impartial

Professional

Accurate

High-tech

http://www.urhongxin.com



Contents

- Page 1 Abstract
- Page 2 Service Network
- Page 3 Quality Certificate
- Page 4 Our Customers
- Page 5 Our Tenet
- Page 6 Our Service

- Page 6 Reliability Test
- Page 7 Mobile Product Test and Highly Accelerated Life Test
- Page 8 Acoustic Measurement and PCBA & PCB & Component Failure Analysis
- Page 9 Hazardous Substances Test and Microbiological Test
- Page10 Metal Material Test and Polymer Material Analysis
- Page11 Test Items of Lithium Battery Materials and Failure

 Analysis
- Page12 Precision Measurement and Equipment Calibration

 Engineering
- Page13 EMC Test
- Page14 Passive & Electromechanical Component Test
- Page15 Module Test and SI
- Page16 Active Types
- Page17 Automotive Materials & Component Test
- Page18 Environment Test
- Page19 Proficiency Testing(PTP)

Abstract

About Ur Hongxin

Ur Hongxin Testing Technology (Shenzhen) co., Ltd. (Foxconn China Measurement Center) is a professional integrated laboratory with worldwide presences and strong R&D capabilities.

It provides fast, consistent, and accurate testing and measurement services for high-tech products design, development, and manufacturing. A nationwide network system:

laboratories have been established in Shenzhen, Dongguan, Kunshan, Wuhan, Zhengzhou, Yantai, Chengdu, Chongqing, Nanning and offices have been set up in major cities across the country; Provide customers with cross regional and high-quality testing technical services and product solutions.

Its goal is to assist the growth of Foxconn enterprise group into a highly competitive global technology company in the world.

Advice line: **400-845-2188**



Employees: 1,500

Equipments: >4,300 sets

Areas: >66,000 m²

ShenZhen

Tel: 0755-29846730

E-Mail:

chris.ck.hu@foxconn.com

KunShan

Tel: 0512-57560010

E-Mail:

buller.zk.liu@foxconn.com

ChongQing

Tel: 023-61702888-31340

E-Mail:

hzcq-cmc-sales@foxconn.com

ZhengZhou

Tel: 0371-87012144

E-Mail:

li-ming.li@foxconn.com

DongGuan

Tel: 0755-33810188-31667

E-Mail:

cmc-sz-sales03@foxconn.com

YanTai

Tel: 0535-3821009

E-Mail:

hzyt-cmc-sales@foxconn.com

WuHan

Tel: 027- 59716120

E-Mail:

ming.kang@foxconn.com

ChengDu

Tel: 028-68522005

E-Mail:

hzcd-cmc-yw@foxconn.com

TianJing

Tel: 0535-3821009

E-Mail:

hzyt-cmc-sales@foxconn.com

NanNing

Tel: 0755-29846730

E-Mail:

chris.ck.hu@foxconn.com

Quality Certificate









- Obtained CMA certificate in June 2018, Certificate NO. 201819123247.
- Accredited by CNAS (China National Accreditation
 Service for Conformity Assessment) via the ISO/IEC
 17025:2005 (The General requirements for the competence of testing and calibration laboratories) since Feb 2003.
- Since 2002,Ur Hongxin continue to participate in the capability validation organized by the CNAS,IIS, ASTM and other international and domestic authorities. Obtained CNAS PTP certificate in 2016, Certificate NO. PT0053. Fully ensure our technology to reach the international advanced level.
- We have won recognition of many international customers ,Our professional technical ability, detection ability, the results of accuracy, fairness and confidentiality have won praise of the customers!







Our Customers









































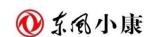






























Our Tenet

Customer satisfaction is our mission

Our Advantages

- Professional technical team
- Years of experience of testing and failure analysis in manufacturing industry
- Advanced equipment
- Comprehensive test solution
- Advanced testing equipmesnt and materials technology development capability
- Master the core technology and have patents
- Service around the country
- Customer first











Environmental, Mechanical, Packaging Material Reliability Testing

The first laboratory in China to be Accredited by Dell for Vibration, Shock, Drop, and Packaging Material testing

Environment Test Laboratory

- High/Cold Storage Test
- Temp. and Humidity Cyclic Test
- Temperature Shock Test
- ESS Test
- Perspiration Resistance Test
- Salt Spray Test
- Dust Test
- Accelerated Weathering Test
- Xenon Exposure Test
- Altitude Test
- Temp. and Humidity Storage Test
- Thermal Profile Test
- Infrared Thermal Imaging
- HAST Test







Vibration and Shock Test Laboratory

- Vibration Test
- Shock Test
- Drop Test
- Drop-G Test
- Measure and Analysis of Vibration
- Pallet Package Drop Test
- Pallet Package Vibration Test
- Floor Vibration Measure

■ Package Test Laboratory

- Container Compression Test
- Container Stacking Test
- Bursting Strength Test
- Pallet Test
- 90°/180°Peel Adhesion Test
- Corner (Edge) Protector Test







Mobile Product Test

Cosmetic Test

- Chemical Resistance Test
- Linear Abrasion Test
- Adhesion Test
- Pencil Hardness Test
- Torque Test
- Force Test
- Ball Drop Test
- Static Pressure Test
- Twist Test
- Life Test
 - Keypad/Flip Lifecycle
 - Connector Lifecycle
 - Insert & Withdraw Test
- Drop Test
 - Free Fall Drop
 - Random Drop
 - Repetitive Drop



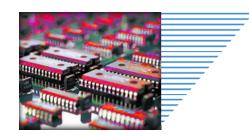
Highly Accelerated Life Test

Highly Accelerated Life Test

- AC/DC Voltage Test
- Temperature Margin Test
- Rapid Thermal Transition
 Test
- Tri-Axial Random Vibration
 Test
- Combined Test
- Highly Accelerated Stress Screen
- Highly Accelerated Stress Audit











Acoustic Measurement & Analysis

- Sound Power Level Test
- Sound Pressure Level Test
- Sound Quality Evaluation
- System Vibration Test
- Electro-acoustic Test







∕∕/Brüel & Kjær --⊜∗



■ SEM+EDS (Scanning Electron Microscope)

- IMC Inspection
- Element Analysis
- Tin Whisker Inspection
- C-SAM (C-Type Scanning Acoustic Microscope)
- 3D OM Inspection
- Cross Section
- Dye & Pry
- IC Decapping
- Wetting Balance
- Bonding Test
 - Shear Test
 - Pull Test
- Solder Paste Properties Test
 - Viscosity Test
 - Solder Tack Test
 - Open Life
 - Flux Content





PCBA & PCB & Component Failure Analysis









Hazardous Substances Test

- RoHS(Cd/Pb/Hg/Cr(VI)/PBBs/PBDEs)
- Metal Elements Quantification
- Migration Element in Toy
- Halogen(F/Cl/Br)
- Phthalates(DBP/BBP/DEHP/DIBP/DIDP/DINP /DnOP/ DMEP/Dnepr)
- TBBPA
- PAHs
- HBCDD
- SCCP/MCCP
- Cyclosiloxane(D3~D10)
- DMF
- Nickel Release
- PFOS/PFOA

AZOs





Microbiological Test

- Mold growth Test for Electric and Electronic Products
- **■** Evaluation for Plastic Mouldproof Effects
- **■** Evaluation for Paints Film Mouldproof Effects
- Evaluation for Nonmetallis Gasket Materials Mouldproof Effects



■ Mold Species

- Aspergillus Niger
- Aspergillus Terreus
- Hormoconis Resinae
 Penicillium Funiculosum
- Trihoderma Longibrachiatum
- Cladosporium Herbarum
- Aureobacidium Pullulans

- Aspergillus Flavus
- Chaetomium Globosum
- Paecilomyces Varioti
- Scopulariopsis
- n Brevicaulis
- Penicillium Citrinum
- Alternaria Alternaria
- Aureobasidium Pullulans











Metal Material Test

Microstructure

- Surface Observation
- Grain Size
- Uniformity Analysis of Carbides
- Inclusion Analysis
- Carburized Depth
- Metallographic Structure



- **■** Chemical Composition
- **■** Fracture Analysis
- Hardness
 - Material/Surface/Core Vickers Hardness
 - Rockwell Hardness







Al5052 (Polarzing)



Structure

(Brass)





Fracture Morphology

Mechanical Properties

- Tensile/Yield Strength, Elongation
- Bend Testing
- Spring Force/Spring Rate
- Pulling/Pushing/ Shearing Force
- Torsion



Polymer Material Analysis

Mechanical Properties

- Tensile Testing
- Flexural Testing
- Hardness Testing
- Impact Testing

Physical Properties

- Specific Gravity
- Ash Content
- Melt Flow Index
- Color Difference

Others

- Thermal Analysis
- Flammability Properties
- Optical Properties













Test Items of Lithium Battery Materials

- Moisture
- Specific Surface Area
- PH Value (positive and negative electrode materials, electrolyte)
- Tap Density
- Particle Size Analysis
- IC Gram Capacity
- Discharge Capacity
- Chlorinated Paraffin / CP
- Impurity
- Conductivity
- Density
- Acidity
- Tensile
- Puncture
- Air Permeability
- Porosity
- Areal Density



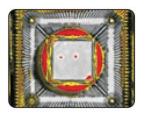


Failure Analysis

- Metal Materials and Parts
- Fracture ,Cosmetic Defect, Corrosion, Wear, Crack, Distortion
- Polymer Materials and Plastic Parts
- Injection Black Spots, Plastic Fracture,
 Cracking, Mixed Color, In Blister, Layered,
 Coating Falling off, Corrosion

■ PCB/PCBA

- Poor Soldering, Components Defect,
 Electrochemical Corrosion, PCB Defect
- **■** Abnormal Composition
- Heterochromatic and Odor Analysis, Nozzle Material Analysis, Organic Residue, Analysis of Industrial Pharmaceutical Composition









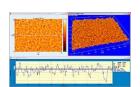


Precision Measurement

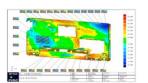
- Dimensional Measure
- Computer Aided Verification (CAV)/Reverse Engineering
- Gear Test
- Geometric Tolerance Analysis
- Surface Roughness Test
- 3D MicroStructure Analysis



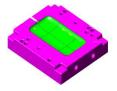
3D Optic Interferometer



3D Surface Roughness



3D Color Plots for Deviation Analysis



Precision Model Verification









Equipment Calibration

- Length Calibration
- Electrical Calibration
- Mass Calibration
- Force Calibration
- Temperature Calibration
- Physics&Chemistry Calibration
- Maintainess













EMC Test

Accredited by NVLAP and VCCI

- Radiated Emission (3m Chamber)
- Radiated Emission (10m Chamber)
- Conducted Emission
- Harmonic Test
- Flicker Test

- ESD Test
- Radiated Susceptibility
- EFT Test
- Surge Test
- Conducted Susceptibility
- PFMF Test
- Dip Test
- Ring Wave Test



RS Test Setup(743 Chamber)



10m Chamber



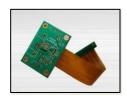


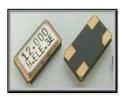
Passive & Electromechanical Component Test

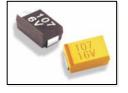
- PCB
 - R-PCB
 - F-PCB
- Connector
 - Inner Connector
 - I/O Connector
- Protection Device
 - Thermistor
 - Fuse
 - ESD ProtectionDevice

- Res./Cap./Ind.
 - Resistor
 - Capacitor
 - Inductor
 - Bead/filter
 - Transformer
 - RF Component
- **■** Fre. Component
 - Crystal
 - Oscillator













Main Service Item

- Raw Material Analysis
- Mechanical & Physical Analysis
- Electrical & Functional Test
- Life Test

- Environmental & Reliability
 - Test
- Failure Analysis
- Integrated Validation















Module Test and SI

Signal Integrity Measurement

- DDR/PCI/Clock/...
- DVI/HDMI/DP/...
- USB/SATA/PCIE/...
- Power Integrity

Power Unit

- SPS
- Adapter/Charger
- Battery/Power Bank

Storage Module

- HDD, Optical Disc
- Memory DIMM

Service Items

- Functionality and Electrical
- Performance Test
- **Mechanical Test**
- Reliability Test

Image, Acoustics Module

- LCD Module

- Speaker, Microphone

Cable, Fan

- Power Cord
- Data Cable
- Fan

Communication

- Wi-Fi, Bluetooth
- TV Tunnel

- Touch Panel
- Camera Module













- Compatibility Test

- **Optical Performance Test**
- **RF Performance Test**
- Safety/EMC Test
- Signal Integrity Measurement
- Module FA















Active Types

- ASIC/ASSP
 - CPU/MCU/ Audio/Clock/LAN/I/O
- Linear IC
 - Standard Linear ICs
 - Power Controller/ Sensors
- Digital Logic IC
 - Standard Logic ICs/PLD
- Memory
 - EEPROM/NOR/NAND Flash /SRAM/ DRAM
- Discrete
 - MOSFET/Transistor/ Diode/LED

Major Services

- Function Test
- Electrical Characteristic
 - Parameter Test
- ESD Rating Test
- MSL Rating Test

- Package Quality Test
- Reliability Test
- Failure Analysis
- Component Quality

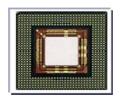
Verification

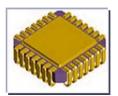






















Test of Automobile Materials and Parts

Material Test

- Mechanical Properties
- Chemical Composition
- Physical Properties
- Thermal Properties

- Structure Analysis
- Size Measurement
- Plastic Combustion Performance And Electrical Performance Test
- Material Composition Analysis Test





Coating Performance Test of Interior and Exterior Trim Parts

- Gravel Impact
- Paint Film Thickness
- Gloss
- Water Resistance
- Paint Film Hardness
- Cross-cut Test

- Bending
- Abrasion Resistance
- Color Difference
- Salt Spray
- Solar Radiation
- Flexibility



■ Wire Harness /Connector Test

- Environmental Stress
- Mechanical Stress
- Mechanical Service Life
- Chemical Stress
- Electrical Strength



■ Cleanliness Test



Environment Test

Drinking Water Safety Test

- Heavy Elements
- Organics

- Disinfection By-products
- Microbiological Index



Heavy Elements

pH

COD

Turbidity

■ Indoor/Workplace Air Test

- Benzene Series and Formaldehyde
- Other Gaseous Pollution

Gaseous Pollution Emission Test

- Sulfur Dioxide and Nitric Oxide
- Non-methane Total Hydrocarbon
- PM10 and PM2.5
- Other VOCs











Proficiency Testing(PTP)

Electrical and Electronic Products

- High Temperature (IEC 60068-2-2, GB/T 2423.2)
- Vibration (IEC 60068-2-6, GB/T 2423.10)
- Shock (IEC 60068-2-27, GB/T 2423.5)
- Low Temperature (IEC 60068-2-1, GB/T 2423.1)

Measurement

- Length of Common Parts (ASME Y14.5, GB/T 3177)
- Surface Roughness of Multi Scribed Template (GB/T 10610)
- True Roundness of Common Parts (ASME Y14.5, GB/T 1958)

Plastic Test

- Decabromodiphenyl Ether (IEC62321-6)
- Cr(VI) (EC 62321-7-2)
- CI, Br(BS EN14582)
- Pb, Cd , Hg(IEC 62321-5)
- Density (GB/T 1033.1, ISO 1183-1, ASTM D 792)
- Tensile Strength (GB/T 1040.1, GB/T 1040.2, ISO 527.1, ISO 527.2, ASTM D 638)











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Looking Forward to Your Cooperation



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