


# STL Electronics Ltd.

**Company Presentation**

# Important landmarks

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- 
- ① Founded in Hong Kong in 1979
  - ② Production in PRC since 1984
  - ③ ISO9001 certified since 1994
  - ④ ISO14001 certified since 2021
  - ⑤ Moved into 500,000 sq ft of fully owned, purpose built manufacturing space, in 2004
  - ⑥ Built camera photoflash units for ITT in the beginning
  - ⑦ Largest answering machine supplier to AT&T in 1980s
  - ⑧ The biggest manufacturer in Caller IDs in the mid 1990s, when ~5 million units were sent per year to the U.S.A.
  - ⑨ Manufacture elderly products such as carephones, fall management mats and alarms since 1997
  - ⑩ One of the biggest manufacturers of electrostatic air cleaners in the last 10 years



# Our Business Partners

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Our customers include major telephone companies, distributors of innovative products, and healthcare organizations.



EntreX Inc.



TELIA



StanleyBlack&Decker



# Our Business Partners

Richard Solo®



**EXCEL** エクセルエンジニアリング



Brookstone®



# Our one stop service

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Experienced Project Management

Resourceful Design Capabilities

Full-Service Contract Manufacturing

High-quality, Cost-effective Manufacturing Services

Infrastructure  
(self-owned  
factory, strong  
financial)

Efficient and  
effective  
Marketing  
Service

Procurement  
services

Outbound  
logistics (e.g.  
on time  
delivery)

After Sales  
Service

Value added  
Products to  
our  
customers



# Major Products Portfolio

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Home-use robots	Intelligent computer peripherals	Personal entertainment devices
Audio/Video Products	Innovative electronics products	Wireless products
Air Cleaning devices	Electronic health care products	Telecommuni- cations products

# Photo flash units



STL's first products





# Cameras (2)



# Cameras (3)



# Cameras (4)



# Cameras (5)

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# TV antenna



# Robots for Fun



**Programmable robot with wireless remote and A/V.**

**It has large eyes that can truly see through a surveillance camera, and sensors to detect if somebody is close by.**



# Personal entertainment (1)

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1980s

**Blogging device with camera**



# Personal entertainment (2)



**Wireless A/V**



**Personal 3D Sound™ Headset**



# Audio Products (1)



Audio amplifiers

# Audio Products (2)



**Extruded Aluminum/  
Wooden  
Audio amplifiers**



# Audio Products (3)

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**High quality headsets**



**3D Sound System**

# Intelligent computer peripherals





# Wireless Products (1)



**Smart Key Finder**

**In home video rebroadcast**

# Wireless Products (2)



# Air Cleaner (1)



with Philips  
UVC lamp



**Electrostatic air cleaners**  
Designed for different size rooms



# Air Cleaner (2)



**Plugin models**



# Air Cleaner (3)



## **UVC sanitation products**

(36W UVC air sanitizer with a shiny aluminium reflector  
driven by a quiet DC fan)

# Healthcare Products (1)



Carephone system

# Healthcare Products (2)



Monitor patients and residents with bed, chair, and door-style monitors



Pressure pad, pull-string, infrared sensor, and wireless technology and a full line of accessory options

Variety of fall monitors available that integrate with most nurse call systems



**TABS®**  
Fall Management System

**Personal monitoring system**

# Healthcare Products (3)



# Telecommunications Products



**ADSI phone**




**Headset phone**



**VoIP SIP phone**

# Full-Service Contract Manufacturing

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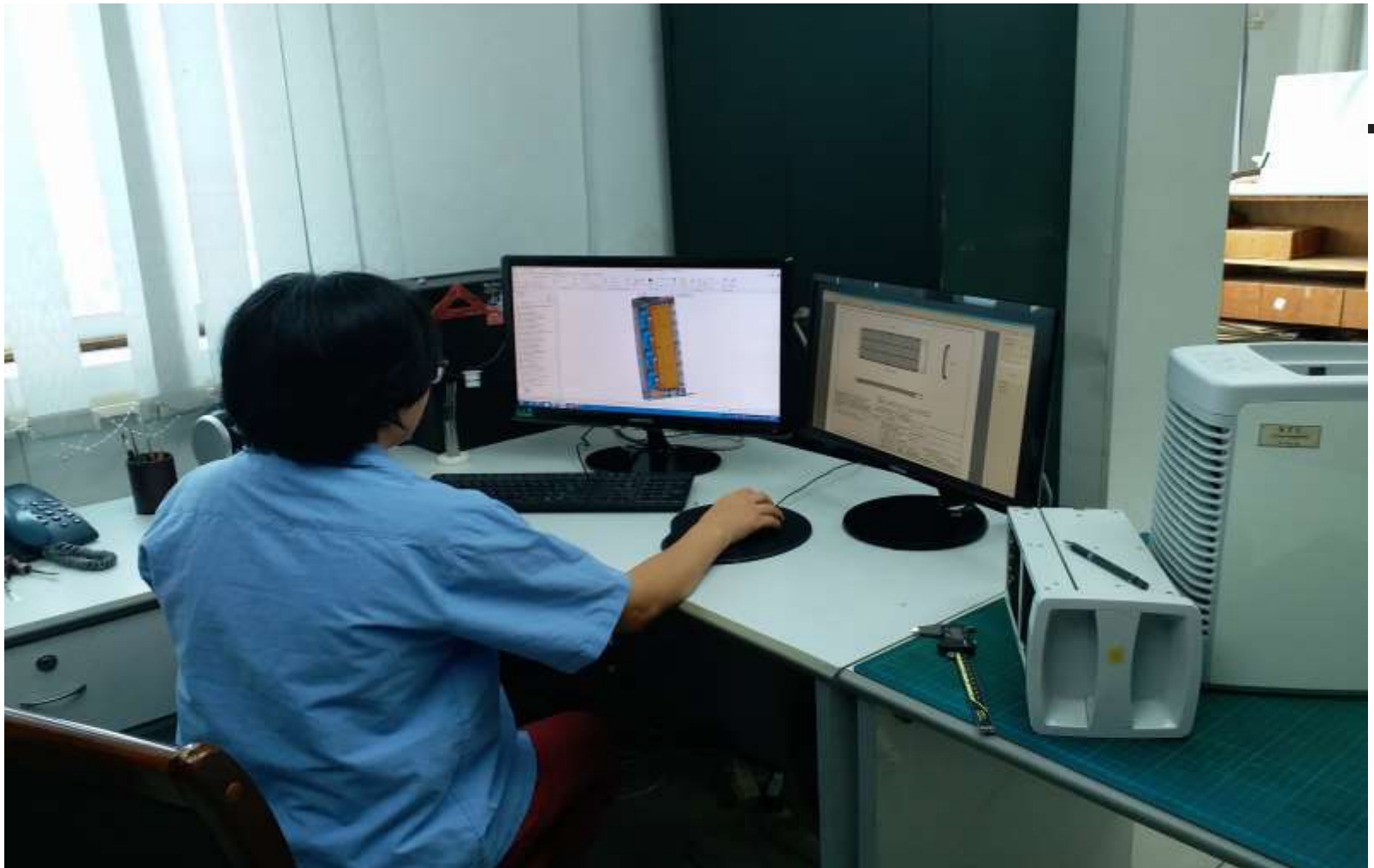
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- ① Product definition
  - ② Mechanical, industrial, software, PCB and electrical design
  - ③ QA engineering/life testing services
  - ④ Procurement
  - ⑤ Production
  - ⑥ Logistics support
  - ⑦ ERP system to track and plan resources from order placement to delivery



# Design Capabilities

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- ❑ STL has a history of flexibility and growth in technical capabilities in the past 39 years.
- ❑ STL is committed to continuing this growth in technical expertise and maintaining flexibility in its quest to satisfy market and customer demand.
- ❑ State-of-the-art CAD/CAM tools such as Pro/Engineer and SolidWorks
- ❑ Graphics design using Adobe Illustrator
- ❑ Experience with a variety of analog and digital RF technologies
- ❑ Prototypes using SLA and CNC processes



**Engineering**





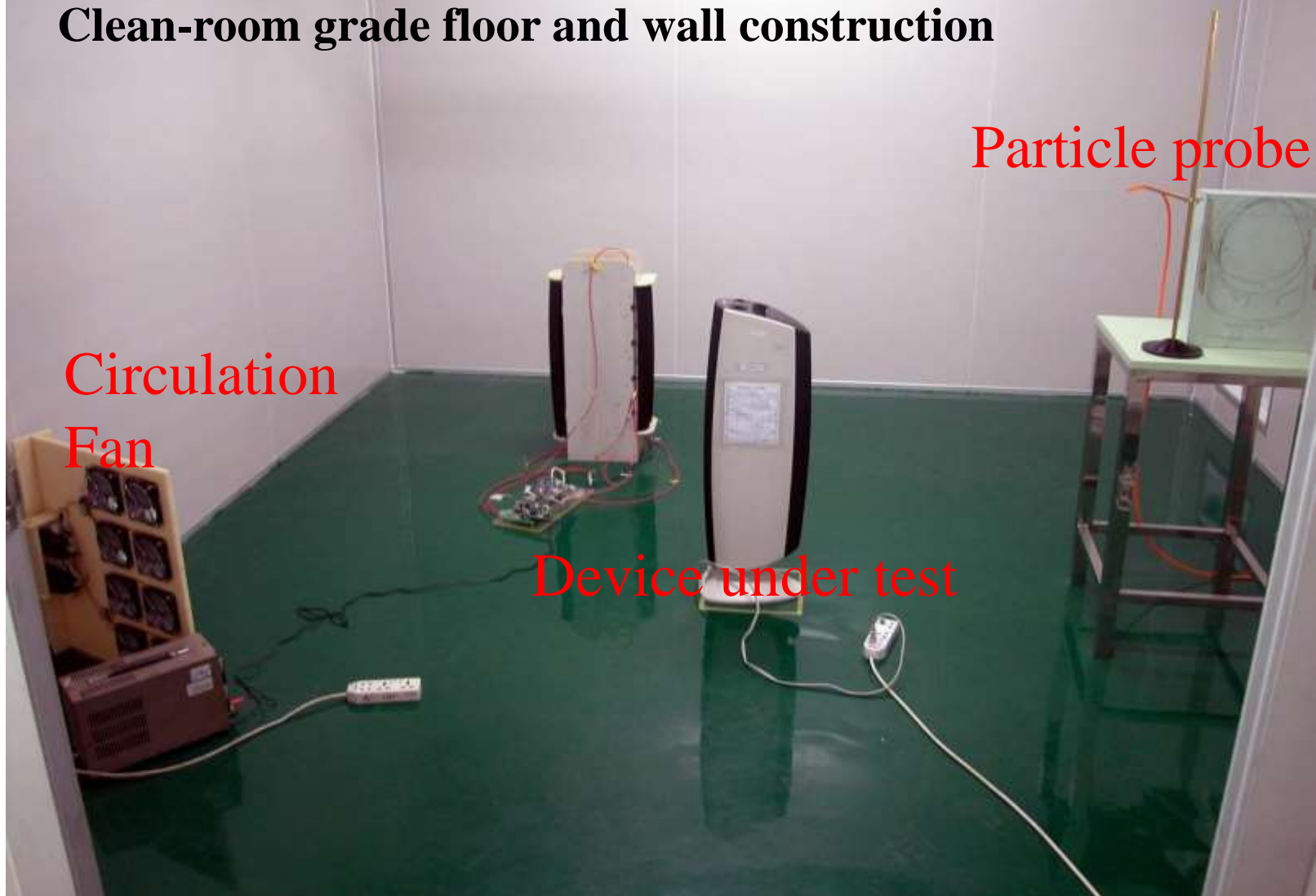
**Ozone meter**



**1000 ft<sup>3</sup> testing chamber**

**Ozone testing chamber with precise air flow control**

**Environment-controlled testing room**  
**Clean-room grade floor and wall construction**



Circulation  
Fan

Particle probe

Device under test



**CADR testing room built according to International Standards**



# Standards

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- ① ISO9001 certified since 1994
- ② ISO14001 certified since 2021
- ③ Experience with CE, UL, ETL, FCC, BABT, a variety of EN standards
- ④ RoHS compliant processes available
- ⑤ US FDA listed manufacturer and can supply products using GMP (QSR) compliant processes



# Manufacturing Capabilities

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- ① Tin-lead and lead-free processes (RoHS)
- ② SMT capacity: ~3 million components/day
- ③ Component sizes down to 0201(in), pin pitches down to 0.5mm
- ④ Computer controlled vacuum potting
- ⑤ Automated X-ray inspection of BGA placement

# Factory Overview





**Our own manufacturing plant of over 500,000 sq. ft.**



**Front gate**





**Front entrance of our office**



**Dormitories for senior staff**



**Dormitories for over 2,000 employees on-site**



## Dormitories for workers





**Canteen and recreation center**



**Canteen**



**Electricity generators – 1MW to support entire plant**





**Electricity generators – 1MW to support entire plant**





**Training program for new workers**



**Fully automatic solder paste printing**



**Solder paste inspection**





**SMT placement machine**



**Die bonding**



**Reflow oven**





**AOI Machine**

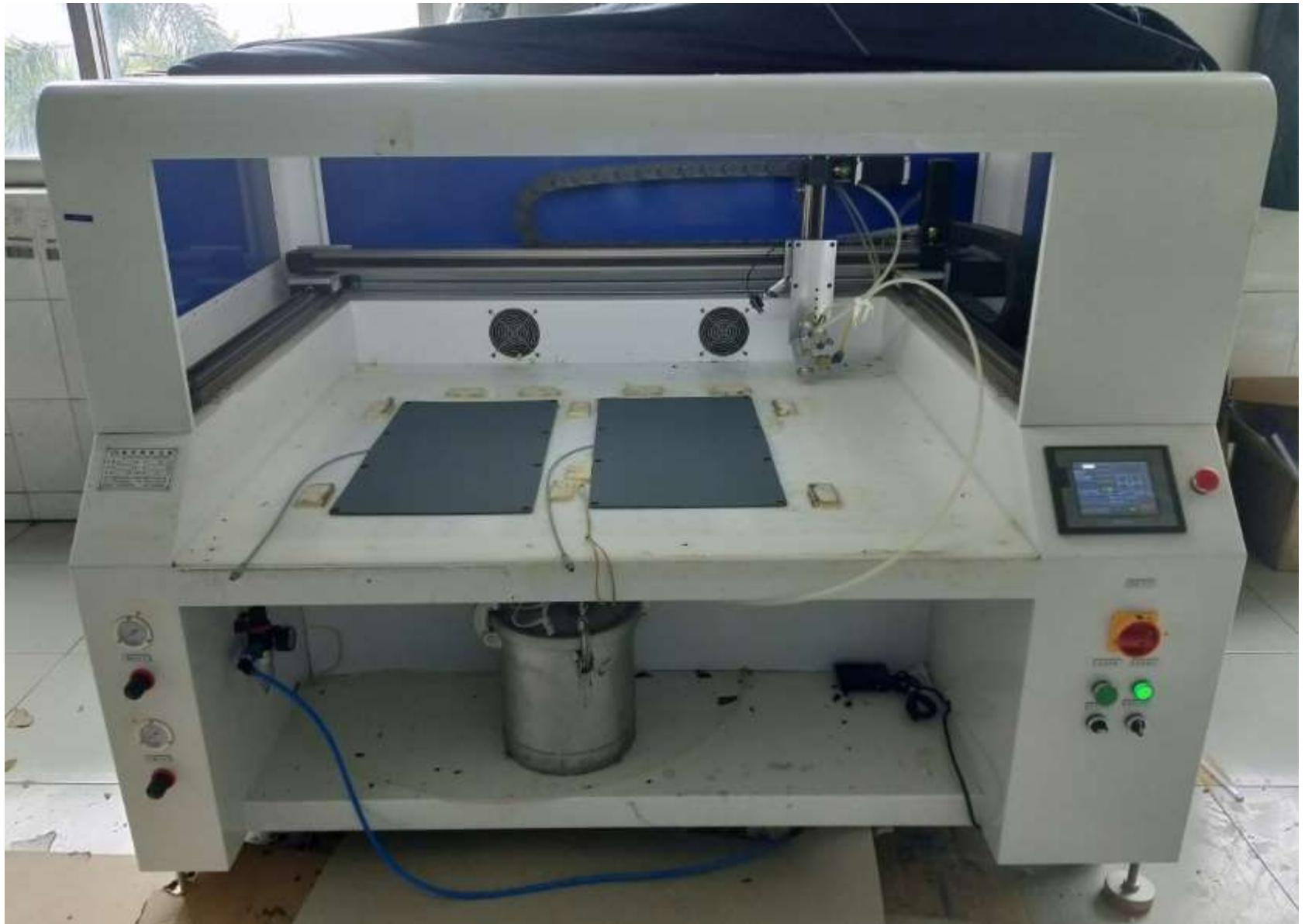


**Insertion Line**



**Automated wave soldering**





**Programmable Glue Machine**



**RF alignment station**



**Manual soldering**





**In-line circuit testing**



**Casing assembly**





**Casing assembly**



**X-ray machine**

05/14/2005

11:25:57

Balls: 256

Fail: 0

PASSED

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
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209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

**X-ray inspection of BGA process**



**Vibration and drop test**





**Vibration machine (1)**



**Vibration machine (2)**



**Plastic flammability testing chamber**



**Environmental test chamber**



**Laser Etching Machine**





**Water tightness tester**



XRF Machine



**Melt Flow machine**





**Finished goods store**



**Loading of finished products**





**Loading dock**



# Thank you!

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## For more information...

**STL Electronics Ltd.**

3/F, Tower A, Regent Centre,

63 Wo Yi Hop Road

Kwai Chung, Hong Kong

+852-2499-8911

<http://www.STLGLOBAL.com/>

[mkg@STLGLOBAL.com](mailto:mkg@STLGLOBAL.com)