

INTEGRATED SERVICE TECHNOLOGY

宜特科技



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IST. LEADER OF ELECTRONIC VERIFYING SOLUTION

As for every firm, product's reliability verification plays a crucial role. With the endorsement, large enterprises can build up consumer's confidence, while younger brands can use the test report as a persuasive method. iST is a worldwide well-known laboratory that accredited by credible institutes, such as IEC/IECQ, TAF, TUV NORD and CNAS. With the trend of outsourcing for international manufacturers, iST also plays the role of third-party notarization lab of quality testing, and obtained qualification of verifying/certifying from major brands and associations, like TI, Lenovo, Cisco, Delphi, Continental Automotive, ISTA and HDMI. Proceeding from Hsinchu, iST has expanded operations over the world gradually, including China, Japan and U.S.A., hoping to give its clients a higher quality of technical service that is more comprehensive, rapid, advanced and innovative, growing together with international trend.

VERIFICATION FROM SEMICONDUCTOR INTO LED

Founded in 1994, iST had started its career with IC circuit debugging and modification, and gradually expands new services, including failure analysis, reliability verification, material analysis etc., building comprehensive service of complete verification and analyzing engineering platform. Clients are covered from upper reach IC design to end products. With the rising of Cloud Intelligence, Internet of things (IoT) and Internet of Vehicles (IoV), iST has not only concentrating on core service, but keep an eye on international trend, expanding multiple services, building LED/automotive electronic verification platform and high-speed Integrity Services. In 2009, iST has plunged resources into LED lighting verification that leads its competitors. At that time, Taiwanese LED factories were in the place of takeoff, usages of LED were mostly backlight display for television only. When LED development heats up and introducing in lighting in recent years, demands had built up rapidly; people then started to notice the importance of verification. From Epitaxy (EPI), package to end products, iST has planned optical measuring system, base on different category's demands, practicing verify analysis, integrated solutions such as helping clients to tell the difference of before/while/after reliability test, life estimating and quality improvement. Besides, on the failure analysis, iST created an effective analyzing procedure in LED depreciation, discolor, rubber material malfunction and package problem. Thereafter, the LM-80 approved method that submitted by Illuminating Engineering Society North America (IESNA), uses experiment project for LED product's life, and the "Energy Star" certification issued by EPA, uses experiment result from LM-80 as the standard of indoor-outdoor lighting fixtures. During the certification, the most important Lumen maintenance requires LED element factory submits 6-thousand-hour test data of the element, based on IESNA TM-80 test method, then lighting factory estimates Lumen maintenance based on IESNA

TM-21 method, with that, consumers will have a clear idea of the lighting's life. Also, in the end of July, 2011, iST had passed the approved qualification from US Environmental Protection Agency's authorized institute- Taiwan Accreditation Foundation (TAF) in LED LM-80, since then, iST formally initiate LED LM-80 verifying service. However, it is not just purchase an LM-80 machine, and then run the test. Since every LED element is different from form and consumption, before verifying LM-80, it requires electronic circuit design on test board for different types of LED element, while build quality of the SMT matters radiating efficiency during the test, therefore, both of which will affect the test result.

iST has years of substantial experience in reliability test, failure analysis and material analysis, in order to help its clients match up with international demands, expand market range, and bring into line with the world. iST introduces integrated experiment equipments that fit for IESNA LM-80, providing comprehensive verifying test service for LED factories. Responsible in CSR, introduce lead/halogen-free for clients. Since 2006, EU had legislated laws to regulate limited use of hazardous substances, consumer's electronic product over the world had also raised a burst of upsurge of lead-free. In 2014, EU had further included medical electronic equipment industry into the range of hazardous substances' regulation, this mean more medical electronic equipment manufacturers have to think about reliability verification plan of planning lead-free making transformation, in order to sell in European market, especially high reliability requirement that medical electronic equipments need to be concerned. In this supply chain, no one can be excluded, when it comes to product's quality control. During different phases, product's reliability verification requires the help of failure analysis technology to find defects, and even solve it. Since 2004, iST has assisted various international manufacturers, including Taiwanese and Chinese, proceeding lead-free products and reliability verifying analysis, accumulating years of experience, become the only lab that provides complete supply chain's reliability test and failure analysis for Taiwan and Mainland China.

CAR ELECTRONIC VERIFY WITH DEKRA, PROCEEDING TO THE NEXT 2 DECADES

After several years of development, not only become the premier third-party notarization lab in Asia, iST went even further into automotive verification. In July 2015, iST and DEKRA built a joint venture called "DEKRAiST", providing services such as LED, PCB, PCBA and system reliability verification, strengthen both parties' world-leading testing and certification in fields like automotive, LED and medical electronic. DEKRA is the world's largest automotive safety identify & test authority, every year they check and inspect the quality of 26 million new cars before leaving the factory, besides automotive inspection for well-known European car makers, DEKRA also has

the qualification of licensing CE-Marking, the pass of European market, playing the role of inspector of medical equipment, lighting and consumer products that import to Europe, market share of first and third in the world in lighting verification and medical electronic inspection. In the beginning of DEKRAiST, it focuses on rooting market territory and integrating both companies' profession. While clients of DEKRA are mostly worldwide car manufacturers and OCM parts factories, customers of iST are first-tier car manufacturers and OEM automotive parts suppliers. Since DEKRA has certain advantages of knowing most car makers worldwide, creating a new company from both parties can push iST into the front of these manufacturers, and drive all of their upper reach suppliers, such as element factories and ECU module factories to conduct verification in iST. To iST, working with DEKRA as DEKRAiST means this 21-year old company will once again sails from Taiwan, abroad European market's territory, bringing the next 20 years for iST, take a firm step in globalize test & verify. Looking forward, iST will continue to pursue a better company, and keep walking toward the goal of sustainable business in economy, society and the environment.

