

Quality Control And Test Equipment Checklist

The equipment we operate and what each machine catches.



Every-Step QC, Not End-Of-Line QC

Our quality control processes include every-step QC and final QC checks to ensure that all goods are of the highest quality before packing. Checking only at the end of the line tells you a batch failed. Checking at every step tells you where.

What Each Machine Is For

Equipment	What it catches
Aging racks	Early-life electrical failures before shipment
Battery capacity sorting cabinet	Cells outside the capacity band, before assembly
PD test station	Charging and function faults
Horizontal and vertical flammability tester	Material behaviour under flame
Ball pressure temperature test chamber	Softening of plastics at elevated temperature
Mobile phone drop tester	Damage from a single drop onto a hard surface
Dual drum drop tester	Cumulative damage from repeated tumbling
Falling ball impact tester	Impact resistance of housings and lenses
Abrasion wear test machine	Surface wear over a working life
Silk screen abrasion resistance tester	Printed logo and legend durability
Button life tester	Switch failure over repeated actuation
Horizontal plug and pull force tester	Connector retention and wear
Wire flexibility tester	Cable failure at the strain relief

Where Products Usually Fail

In portable audio the failure points are predictable: the cable at the strain relief, the printed legend on a touched surface, the power button, and the housing at the first corner drop. Every one of those has a dedicated machine on this list, because the failure is known in advance and can be designed against.

Certification Held

We hold a CE Certificate of Compliance issued by BCTC under the R&TTE directive 99/5/EC and a RoHS Certificate of Compliance, both covering Bluetooth speaker models ST-871, ST-872, ST-878, ST-861, ST-862, ST-868, ST-851, ST-852, ST-858, ST-821, ST-822 and ST-828, together with a Chinese utility model patent certificate. Certification scope for a new model is agreed per project and per destination market.

What To Ask A Supplier

- Which tests are run in house and which are subcontracted
- Whether QC happens at every step or only at final inspection
- Which certificates cover the exact model number being quoted
- Whether the approval sample is retained as the production reference
- Whether third party inspection is permitted before shipment

Questions

Are the tests run in house?

Yes, on the equipment listed above at our own facility.

Which models do the CE and RoHS certificates cover?

Bluetooth speaker models ST-871, ST-872, ST-878, ST-861, ST-862, ST-868, ST-851, ST-852, ST-858, ST-821, ST-822 and ST-828, as printed on the certificates.

Can we send our own inspector?

Yes. We warmly welcome you to visit us anytime, and third party inspection can be arranged.

Contact

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