

Global Touring Laser Compliance Guide

1. General Global Standard

Compliant with IEC 60825-1 (laser classification) and IEC 60825-3 (stage laser performance). Class 3B/4 high-power lasers require professional safety control and certified Laser Safety Officer (LSO) on-site.

2. Regional Compliance Summary

2.1 North America (USA)

Comply with FDA 21 CFR 1040.10/1040.11 & ANSI Z136.3. FDA product registration and standard warning labels are mandatory. Audience scanning requires official FDA Variance permit. LSO on-site duty is compulsory for all touring shows.

2.2 European Union & UK

EU: CE marking + DoC declaration, comply with EN 60825 series, EMC, LVD and RoHS. UK: Independent UKCA certification is required. On-site safety assessment and local authority filing are mandatory for Class 3B/4 laser performances.

2.3 Middle East

Mandatory certification: Saudi SABER, UAE ESMA. Bilingual (Arabic + English) warning labels are required. Batch shipment certificate is needed for customs clearance. High-power laser shows require local radiation authority approval.

2.4 Asia

Adopt local IEC equivalent standards (GB 7247 in China, KS C IEC in Korea, JIS C in Japan). Large-scale laser performances need cultural and health authority filing. Prohibit direct eye exposure to audience.

3. Product Hardware Compliance

- Laser Fixture: ≤10.5kg lightweight body, IP65 waterproof & dustproof, 20–40W RGB output, full laser classification test reports provided.
- AERIAL KIT™: Universal rigging kit, compatible with Robe, Chauvet and mainstream touring lights, with mechanical load safety certification.

- SafeMount™ System: One-click quick lock with pre-installed safety cable, meets global overhead hoisting safety standards for single-hand operation.

4. Standard 5-Step Tour Compliance Process

Pre-Show Preview (site survey & simulation) → Custom Packing (standard labeled flight case storage) → Fast Installation (AR guided rigging & wiring) → Safety Verification (auto-generate local compliance reports) → Pack-out & Maintenance (disassembly, cleaning, testing & filing)

5. Essential On-site Documents

Laser test report, regional certification documents (FDA/CE/UKCA/SABER/ESMA), hardware safety reports, LSO qualification certificate, on-site risk assessment & performance filing documents.