Custom Pet Red Light Therapy Manufacturer: OEM/ODM Devices for Dogs, Cats & Pet Brands

Shenzhen, Guangdong Nov 4, 2026 (Issuewire.com) - Pet Products Need a Different Design Checklist

Pet red light products are not simply smaller versions of human panels. Animal coats create physical diffusion barriers, and dynamic movement requires specialized structural configurations. Fit, fur penetration, chew-resistant fastening, low-voltage electrical safety, and easy-clean materials all influence whether a product is practical for dogs, cats, and equine applications.

Founded in 2017, Shenzhen HSY LED Technology Co., Ltd. (HSY Lighting) operates a 5,000+ m^2 in-house manufacturing facility with 6 dedicated SMT lines and 3 assembly lines. Delivering over 15,000+ units monthly for over 500 B2B clients, HSY provides professional OEM/ODM manufacturing for pet mats, wearable wraps, and targeted joint devices.

Compliance Note: HSY pet devices are designed for companion animal wellness, post-exercise recovery, and general conditioning. They are not intended to diagnose, treat, or cure veterinary diseases.

Core Product Matrix: Mats, Body Wraps, and Joint Devices

HSY manufactures an adaptable portfolio tailored to animal anatomy:

• Resting-Format Therapy Mats (e.g., TPM100): A flat, multi-layer soft fabric resting surface utilizing 660nm and 850nm dual wavelengths to deliver full-body conditioning during natural rest.

• Wearable Body & Hip Wraps (e.g., HSY-PET2003): An ultra-lightweight, ergonomic wrap targeting the back and hip area. It is secured by flexible contour straps that move naturally with the animal.

• Targeted Joint Contour Wraps (e.g., HSY-PET2001 & HSY-PET2002): Articulated wearable units designed specifically for the legs, hocks, stifles, and elbow joints to support localized mobility.

Engineering for Pet Safety: Low-Voltage and Chew Resistance

Because pets interact dynamically with their environment and cannot verbally communicate thermal discomfort, equipment requires extra-low voltage electrical isolation.

• Low-Voltage Topologies: HSY builds dedicated hardware around extra-low voltage direct-current (DC) power architectures (such as 3.2V to 12V). This isolates electrical pathways from accidental moisture or biting behavior.

• Durable FPCB & Connectors: Beneath the textile shell, HSY integrates proprietary flexible printed circuit boards (FPCBs) engineered to endure repeated rolling, flexing, and animal movement without circuit fatigue. External power cords feature reinforced braided shielding and molded strain-relief boots to protect wiring against sudden tugging.

Veterinary-Grade Textiles and Easy Cleaning

Wearable pet products need fabrics that can tolerate repeated handling, shedding, and accidental moisture. Wearable wraps like the PET2003 utilize smooth, medical-grade PU leather that is naturally scratch-resistant, water-repellent against drool, and easily wiped clean between treatments without trapping fur. For resting-format mats (TPM100), multi-layer reinforced fabrics provide cushioned support.

OEM Sourcing Tip: Claims such as “100% chew proof” or “claw proof” should only be used if there is a defined laboratory test supporting them. A safer and more professional B2B description explains the actual construction, such as "scratch-resistant PU leather" and "braided cable shielding."

Optical Configuration and Fur Penetration

In professional pet photobiomodulation, efficacy depends on a precise balance. Visible 660nm red light supports superficial coat and skin conditioning, while 850nm near-infrared light provides high penetration through dense fur into underlying musculature and joints.

HSY executes strict incoming spectroscopic binning on all LED chips to maintain central wavelength tolerances within ±5nm. These optical matrices are driven by low-ripple constant-current electronics (<0.1% flicker) to prevent animal visual strain.

QC, Aging, MOQ, and Warranty

Prototyping a single pet wrap differs from scaling mass production. HSY confirms a 100% continuous power-on aging test for 8 to 24 hours as part of its recorded QC process to monitor thermal equilibrium and driver reliability.

Pet brands often need more than just a logo. Size labeling, animal-specific instructions, and custom retail packaging are key components of OEM/ODM orders.

• MOQ (Minimum Order Quantity): Device MOQ, logo MOQ, and custom-packaging MOQ differ by product. Typically, evaluation samples are 1-2 units, while custom branding and packaging start at 500 units.

• Compliance: HSY holds CE, FCC, RoHS, ISO 9001, ISO 13485, and FDA establishment registration. (Note: FDA facility registration should not be marketed as medical FDA approval).

• Warranty: HSY provides a clear 1-Year Warranty for all pet and equine wearable products (Rigid commercial panel products carry a 3-year warranty).

Frequently Asked Questions (FAQ)

Which HSY pet models are currently available for OEM/ODM?

Current confirmed models include the HSY-PET2001 (joints/legs), HSY-PET2002 (legs), HSY-PET2003 (back/hip PU leather wrap), and the TPM100 (pet resting mat).

How do pet red light devices ensure electrical safety?

HSY pet devices utilize extra-low voltage DC power architectures (3.2V to 12V), effectively isolating electrical pathways. Additionally, external cords feature braided shielding to resist accidental chewing.

Can pet products be customized by size?

Yes. We support custom dimensional patterns and multi-size SKU matrices (S, M, L, XL) for dogs, cats, and equine applications as part of our OEM/ODM projects.

Are pet devices “chew proof”?

While no fabric is entirely indestructible to aggressive chewing, HSY uses scratch-resistant PU leather and reinforced braided cables with strain-relief boots to maximize durability and safety in supervised wellness settings.

What is the warranty on HSY pet red light therapy devices?

Under our current company policy, HSY provides a 1-year warranty for all non-panel product categories, including pet mats and wearables.

Develop a Pet Wellness Product Line with HSY

Pet brands, distributors, and professional veterinary buyers can review current product formats and request a model-specific quotation, size discussion, optical test data, and private-label scope.

Visit: https://www.hsy-lighting.com/

Media Contact

Shenzhen HSY LED Technology Co., Ltd.

*********@hsy-lighting.com

+86 18926409992

4th Floor, Block B, Longteng community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

Source : Shenzhen HSY LED Technology Co., Ltd.

See on IssueWire