



专注宠物无创诊疗解决方案
Veterinary Non-Invasive Care Solutions



Veterinary Plasma Therapy Manual
兽用等离子疗法手册

PLASMA CARE VET

Website: dgepets.com

Instagram: [dge.pet](https://www.instagram.com/dge.pet)

Facebook: [DGE](https://www.facebook.com/DGE)

E-mail: dge@dgepets.com

Wechat: (86) 13570847083

Telephone: (0755) 29988021

地址:中国深圳市沙井镇巨基科技园C栋2楼
Address:C Building , JuJi Industrial Park
ShaJing Town , Bao'an District, Shenzhen



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冷等离子体
Cold Plasma



DBD等离子体
DBD Plasma

什么是等离子体? / What is plasma?

等离子体是一种物质状态，是物质除固态、液态、气态以外的“第四态”。等离子体是宇宙中最丰富的物质形式，宇宙中约99%的可见物质都是等离子体，它们由电子、离子、原子、中性粒子等组成。自然界中存在着许多肉眼可见的等离子体，比如太阳、闪电以及极光等。

大气压低温等离子体(Cold Atmospheric Plasma, CAP)是指在大气压条件下产生的、气体温度接近或略高于室温的处于非热平衡状态的等离子体。CAP具有无热损伤、活性粒子含量高、操作成本低等特点，广泛用于生物医学。

Plasma is a state of matter known as the fourth state of matter alongside solid, liquid and gas. It is the most abundant form of matter in the universe, accounting for approximately 99% of all visible cosmic matter, and consists of electrons, ions, atoms and neutral particles. Many naturally occurring plasmas are visible to the naked eye, such as the sun, lightning and auroras. Cold Atmospheric Plasma (CAP) refers to non-thermal equilibrium plasma generated under atmospheric pressure, with gas temperature close to or slightly higher than room temperature. Featuring no thermal damage, high concentration of active particles and low operating cost, CAP is widely applied in biomedical fields.

冷等离子体 / Cold Plasma

冷等离子治疗以氦气为工作气体，高压电离产生氦气离子，与空气反应生成ROS和RNS，三者协同实现氧化杀菌、血管舒张、抗炎修复。冷等离子接近室温、无刺激性，适用于宠物伤口、皮肤、抗感染等场景。

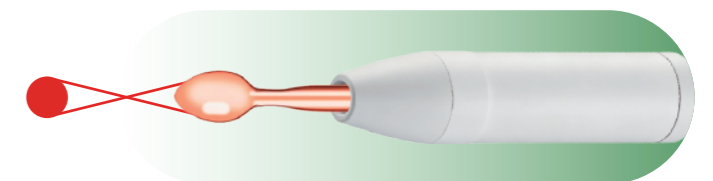
Cold plasma ionizes helium to produce ROS and RNS for sterilization, vasodilation and anti-inflammation. Non-irritating at room temperature, ideal for pet wounds and skin anti-infection care.



DBD等离子体 / DBD Plasma

DBD疗法是冷等离子体的另一种产生方式，无需耗材。治疗时石英管壁表面持续产生ROS与RNS，协同实现氧化杀菌、血管舒张、抗炎修复。DBD结构使放电均匀稳定，穿透力强，应用场景更为广泛。

DBD cold plasma therapy: consumable-free, ROS/RNS-mediated sterilization, anti-inflammation & tissue repair, with stable discharge and wide applications.



5 大冷离子核心优势

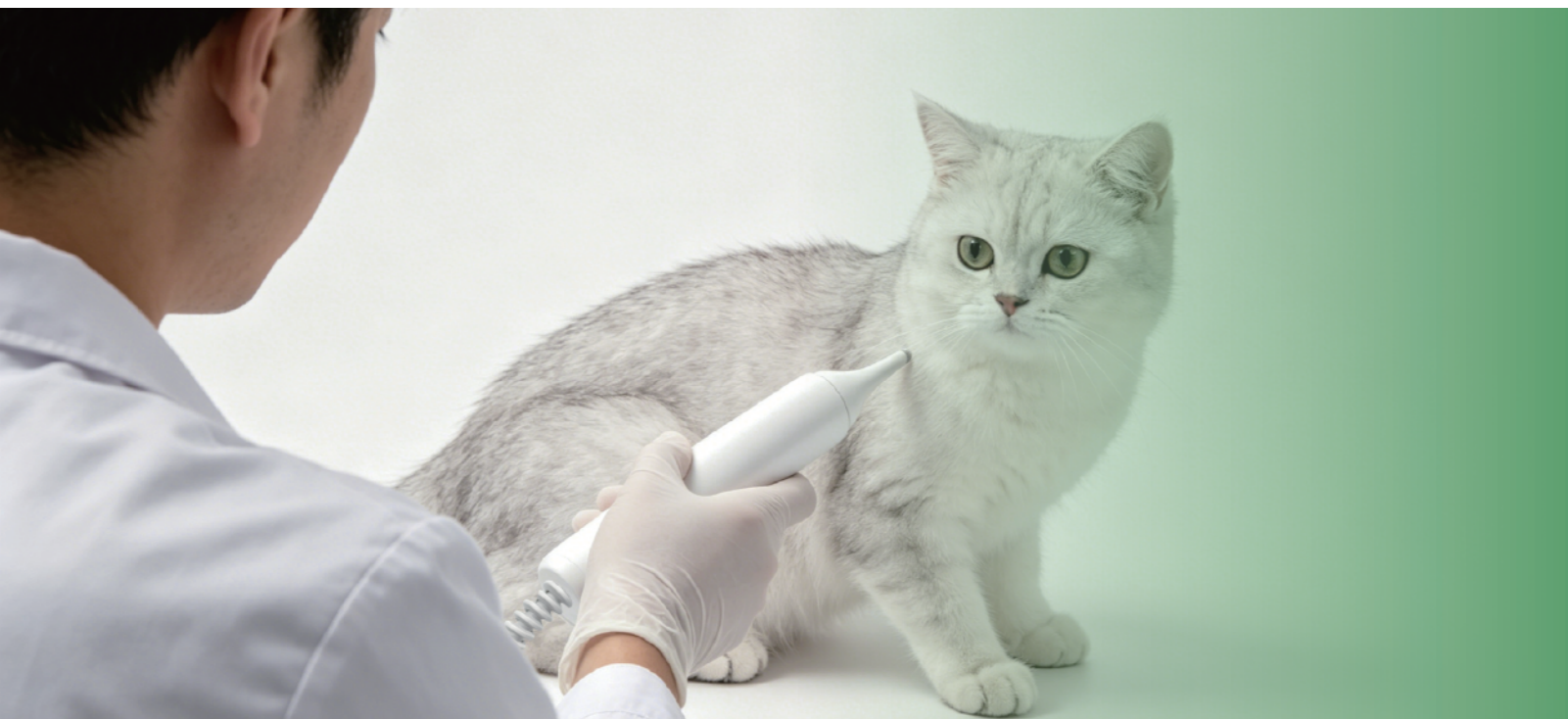
Five Core Advantages

Dual-action Anti-inflammatory Wound Protection

抗炎双效护创

PlasmaCareVet 中的冷等离子体由电离氦气产生，可形成温和的非接触流，舒缓皮肤。它能减轻炎症、镇静刺激，过程无热量、无伤害。冷等离子体非常适合皮炎、热点、术后肿胀及敏感区域护理，全程无痛安全，即使是神经紧张或受伤的动物也适用。

The cold plasma of PlasmaCareVet is generated by ionized helium, forming a mild non-contact airflow to soothe the skin. It relieves inflammation and calms skin irritation with zero heat and no tissue damage. Cold plasma is ideal for the care of dermatitis, hot spots, postoperative swelling and sensitive areas. The treatment is entirely painless and safe, suitable even for nervous or injured animals.



02 促进愈合

深度激活皮肤细胞再生，加速干裂、炎性皮肤愈合，改善受损组织健康。

04 低温安全

冷等离子采用电离氦气，治疗低温无灼伤，可在娇嫩皮肤上安全反复使用。

01

Cold plasma acts on the skin to relieve inflammation and reduce redness, swelling, and irritation caused by dermatitis and postoperative swelling.

02

Low-temperature plasma promotes repair, boosts circulation, accelerates healing, and reduces infection and scarring.

05

Non-contact low-temperature plasma, ideal for sensitive, painful areas. Stress-free, perfect for anxious or injured pets.

03

Deeply activates skin cell regeneration, accelerates healing of chapped and inflamed skin, and improves the health of damaged tissue.

04

Cold plasma uses ionized helium, ensuring low-temperature treatment without burns, safe for repeated use on delicate skin.

01 抗炎作用

冷等离子作用于皮肤可缓解炎症，减少皮炎、术后肿胀引发的发红肿胀及刺激。

03 伤后修复

低温等离子助力术后及创面修复再生，促进循环与氧合，加速愈合，降低感染及留疤风险。

05 非接触式

低温等离子无需接触皮肤，适合敏感疼痛部位，无压力，尤适焦虑与受伤宠物。



Why Plasma Therapy for Pets?

为什么等离子治疗给宠物用的？

动物应该得到温和、有效的护理，尤其是在它们感到疼痛或从疾病中恢复时。等离子体疗法是一种现代、科学支持的方法，支持自然愈合，无需使用强效药物或侵入性程序。

随着抗生素耐药性的持续升高和更多动物对传统治疗产生敏感性，兽医专业人员正在转向冷等离子，因为它具有消毒、减少炎症和刺激愈合的能力，而不会损害健康组织。

等离子体疗法为动物提供了一种无药物、无疼痛的体验，为兽医提供了一个可靠、易于应用的工具。无论是用于治疗伤口、皮肤病、感染还是术后恢复，它都能提高治疗效果，同时减少宠物和兽医的压力。

这不仅仅是一种治疗，更是为了宠物更健康、兽医护理更智能而做出的富有同情心的选择。

Animals deserve gentle, effective care, especially when in pain or recovering from illness. Plasma therapy is a modern, science-backed way to boost natural healing without strong drugs or invasive treatment.

As antibiotic resistance and animal sensitivity to conventional therapy rise, vets adopt cold plasma for disinfection, anti-inflammation and accelerated healing, with no harm to healthy tissue.

Drug-free and painless, it is reliable and easy to apply. Ideal for wounds, skin conditions, infections and postoperative recovery, it improves results and reduces stress for pets and vets alike.

More than therapy, it is a compassionate choice for healthier pets and smarter veterinary care.



Cold Plasma Non-Invasive Pet Therapy

冷等离子体动物无创诊疗方案

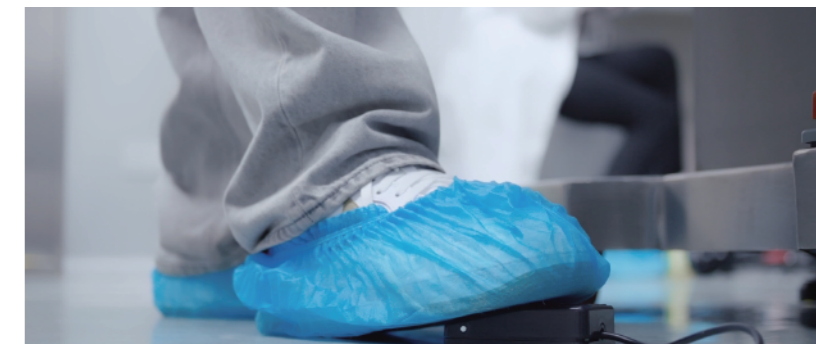
PlasmaCareVet是一种先进的、非侵入性的医疗设备，专为动物治疗而设计。

它利用冷等离子体和DBD等离子体，提供一种安全且无需药物的方法来加速愈合、抵抗感染并改善宠物的皮肤和组织状况。

通过利用等离子体的自然特性，兽医现在可以治疗伤口、皮炎、真菌感染、术后恢复等，而不会对动物造成疼痛、副作用或压力。

PlasmaCareVet is an advanced, non-invasive medical device tailored for animal treatments. Using Cold Plasma and DBD Plasma, it provides a safe and drug-free way to accelerate healing, fight infections, and improve skin and tissue conditions in pets.

By harnessing plasma's natural properties, veterinarians can now treat wounds, dermatitis, fungal infections, post-surgical recovery, and more without pain, side effects, or stress for the animal.



DBD 等离子体

DBD Plasma

与表面处理不同，DBD等离子体直接将臭氧气体送入组织更深层，使其在治疗表面以下延伸的感染或伤口方面非常有效。

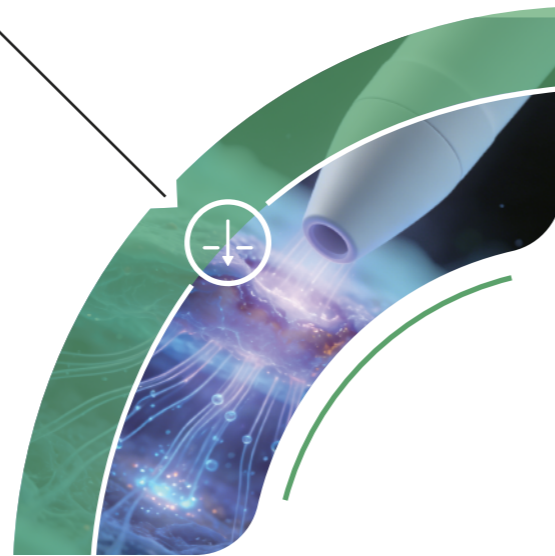
Deep Tissue Penetration
Unlike surface treatments, DBD Plasma delivers ozone gas directly into the deeper layers of tissue, making it highly effective for treating infections or wounds that extend below the surface.

在与皮肤接触时，DBD等离子体产生臭氧(O3)，它可以消毒、促进愈合并改善受损组织中的氧气输送，而无需使用药物或化学品。

Direct Ozone Generation
At the point of contact with the skin, DBD Plasma produces ozone (O3), which disinfects, supports healing, and improves oxygen delivery to damaged tissue, all without the use of drugs or chemicals.

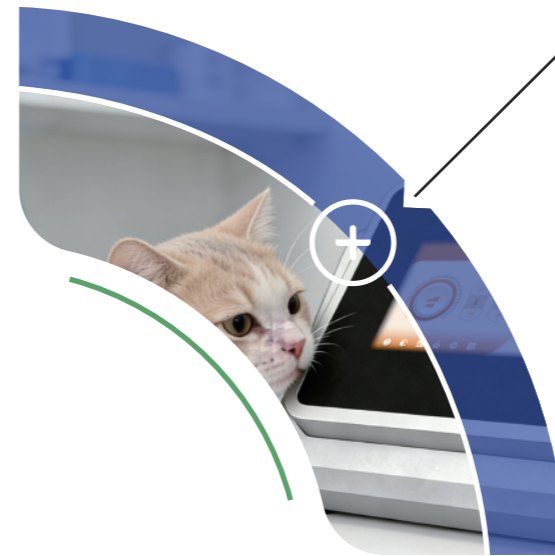
精准透皮

Precision Penetration



安全亲肤

Skin-Friendly Safety

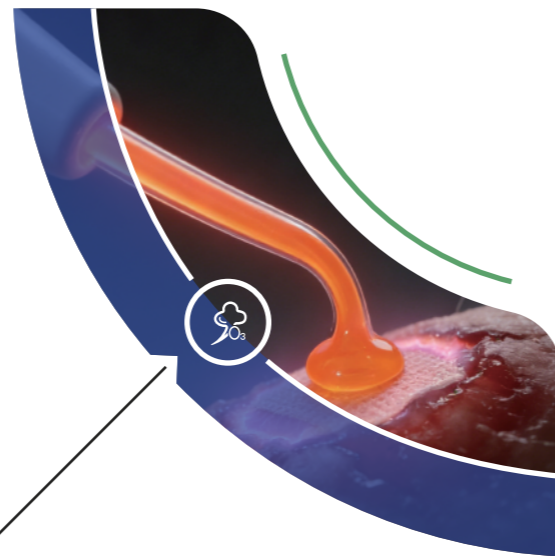


虽然DBD等离子体接触到皮肤，但它不会切割、灼烧或损伤组织。它足够温和，可以定期使用，并且大多数动物都能很好地耐受，甚至在敏感区域也是如此。

Safe Skin Contact
Though it touches the skin, DBD Plasma does not cut, burn, or damage tissue. It's gentle enough to be used regularly and is well-tolerated by most animals, even in delicate areas.

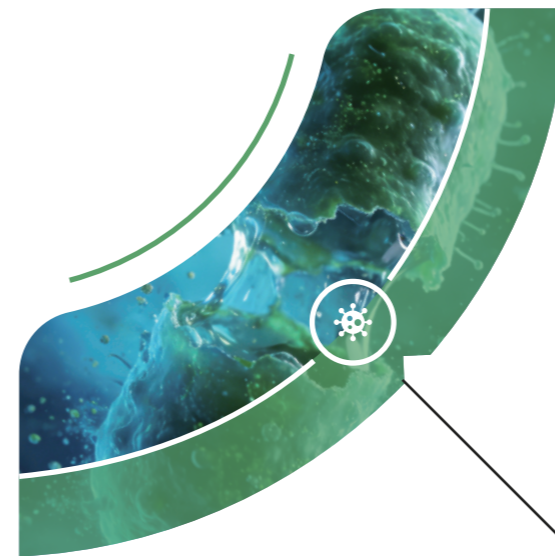
直出臭氧

Potent Antimicrobial



强效抗菌

Potent Antimicrobial



它在管理顽固的细菌和真菌感染、慢性伤口和愈合缓慢的组织方面特别有用，为局部治疗可能失败的地方提供有针对性的解决方案。

Effective Against Infections
It is particularly useful in managing stubborn bacterial and fungal infections, chronic wounds, and slow-healing tissue, offering a targeted solution where topical treatments may fail.

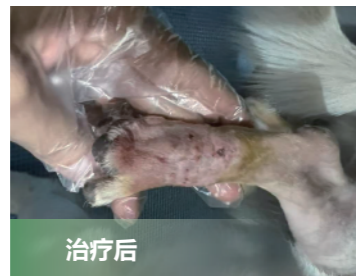
9 大 临床应用案例

9 Major Clinical Application Cases



症状描述 / Symptom Description
 皮肤鳞状细胞癌溃疡状肿块、出血结痂、边缘增生外翻
 ulcerated crusted mass, everted edges

疗效描述 / Efficacy Description
 完整切除 + 皮瓣缝合，创面干燥无渗血，耳廓形态保留
 Resected + flap closure; dry wound, auricle intact



症状描述 / Symptom Description
 肢末端体表感染破溃，手术清创缝合
 Limb ulcerative infection & debridement and suturing

疗效描述 / Efficacy Description
 脓肿彻底清除，创面缝合对合良好，肢端功能恢复正常
 Abscess cleared, wound sutured, limb normal.



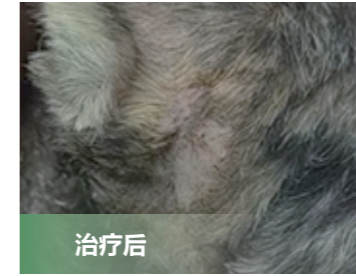
症状描述 / Symptom Description
 缝合手术伤口
 Surgical sutured wound

疗效描述 / Efficacy Description
 创面面积减少 伤口结痂恢复
 Wound area reduced, healing with scab formation.



症状描述 / Symptom Description
 骨折术后康复
 Fracture postoperative recovery.

疗效描述 / Efficacy Description
 骨折愈合良好，肿胀疼痛消退，肢体形态恢复正常
 Fracture healed, swelling/pain gone, limb normal.



症状描述 / Symptom Description
 深达肌肉层的开放性伤口，伴组织坏死
 Deep open wound with tissue necrosis.

疗效描述 / Efficacy Description
 创面干燥，肌肉与皮肤组织愈合良好
 Dry wound with full skin and muscle healing.



症状描述 / Symptom Description
 单侧乳腺瘤全切
 Unilateral mastectomy.

疗效描述 / Efficacy Description
 术区无新肿块复发，乳腺区域恢复正常生理形态
 No recurrence, mammary tissue normal.



症状描述 / Symptom Description
 趾间皮肤红肿破溃，发炎糜烂，炎症明显
 Interdigital skin inflamed, swollen and ulcerated.

疗效描述 / Efficacy Description
 趾间红肿完全消退，无发炎、糜烂
 Interdigital inflammation and erosion resolved.



症状描述 / Symptom Description
 体表可见多处撕裂型咬创，皮肤破损、皮下组织外露
 Bite lacerations with exposed tissue.

疗效描述 / Efficacy Description
 伤口完全愈合闭合，皮肤生长平整，无化脓、无发炎
 Wounds healed, skin smooth, no infection.



症状描述 / Symptom Description
 牙龈溃疡红肿
 Gums swollen and ulcerated

疗效描述 / Efficacy Description
 牙龈红肿完全消退，颜色恢复健康淡粉色
 Gum swelling subsided, restored to healthy pink.

牙科护理支持

在某些情况下，PlasmaCare Vet 可用于缓解宠物牙龈炎或轻度口腔感染相关的症状，并抑制致病菌。

PlasmaCare Vet may help ease symptoms and inhibit bacteria linked to gingivitis or mild oral infections in pets.



1

手术后的恢复

等离子体疗法有助于减少肿胀，最小化感染，并加快手术后的组织愈合，改善整体恢复结果。

Plasma therapy reduces swelling, lowers infection risk, speeds post-op tissue healing, and boosts recovery.



2

头发和皮肤恢复

刺激血液流动和组织修复，血浆可以支持毛发的再生，并改善创伤或感染区域的皮肤健康。

Plasma boosts blood flow & tissue repair, supports hair regrowth, and improves skin health.



3

骨科支持

DBD 等离子体可深层促进组织愈合与氧合，是关节损伤、炎症及肌肉骨骼问题康复方案的辅助手段。

DBD plasma enhances deep tissue healing & oxygenation, aiding rehabilitation for joint, inflammatory and musculoskeletal issues.



4

兽医应用 Veterinary Applications

1

产品特性 / Product Features

PlasmaCare Vet 轻便、便携，设计易于使用-无论是在诊所、上门服务还是移动兽医单元中。它无缝融入任何诊所，为现代兽医专业人员提供灵活性和便利性。

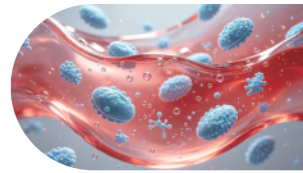


PlasmaCare Vet is lightweight, portable, and designed for ease of use—whether in a clinic, during house visits, or in a mobile veterinary unit. It fits seamlessly into any practice, offering flexibility and convenience for modern veterinary professionals.

2

感染 / Infections

细菌、真菌和病毒感染，包括中耳炎和指状物感染，可以通过等离子体的消毒和供氧特性来管理，这些特性支持免疫反应。



Bacterial, fungal and viral infections — including otitis externa and digit infections — can be managed through plasma's disinfecting and oxygenating properties, which support the immune response.

3

伤口愈合 / Wound Healing

PlasmaCare Vet 通过增强血液循环、降低感染风险和刺激组织再生，加速伤口、手术切口、脓肿和慢性伤口的愈合。



PlasmaCare Vet accelerates the healing of cuts, surgical incisions, abscesses, and chronic wounds by enhancing blood flow, reducing infection risk, and stimulating tissue regeneration.

4

烧伤和刺激 / Burns & irritation

等离子体有助于缓解烧伤、昆虫叮咬、过敏反应和其他表面刺激引起的疼痛和预防感染。



Plasma helps relieve discomfort and prevent infection in cases of burns, insect bites, allergic reactions, and other surface irritations.

对兽医和宠物的益处

Benefits Vets & Pets



减少治疗时间
Reduces Healing Time

通过刺激组织再生和改善血液循环，等离子体加速了自然愈合过程。这意味着伤口、感染和皮肤问题会更快解决，帮助宠物更快、更舒适地恢复。

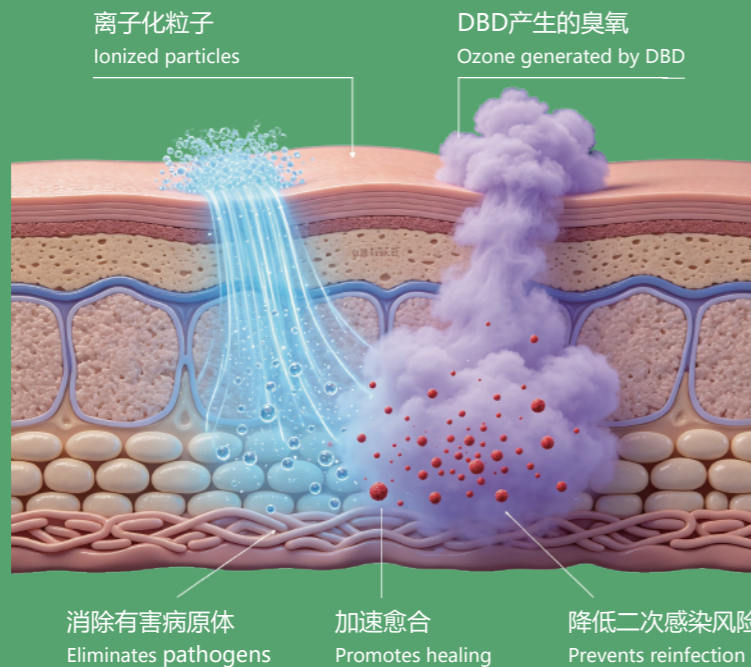
By stimulating tissue regeneration and improving blood circulation, plasma accelerates the natural healing process. This allows wounds, infections and skin conditions to resolve faster, helping pets recover more quickly and comfortably.



杀菌灭毒抑菌
Antibacterial, antiviral
antifungal

等离子体能量，特别是DBD产生的臭氧和冷等离子体产生的离子化粒子，能够有效清除皮肤表面和更深层次组织中的有害病原体。这有助于加快愈合过程，同时降低二次感染的风险。

The plasma energy, especially ozone from DBD and ionized particles from cold plasma, effectively eliminates harmful pathogens on the skin's surface and in deeper tissues. This supports faster healing while lowering the risk of secondary infections.



动物无压力
Stress-free for animals

等离子体治疗过程快速、安静，几乎不会引起不适。这使得它非常适合在传统治疗中焦虑或难以处理的宠物并有助于减少通常与兽医就诊相关的压力。

Plasma therapy sessions are quick, quiet, and cause little to no discomfort. This makes it ideal for pets who are anxious or difficult to handle during traditional treatments, and it helps reduce the stress often associated with vet visits.



临床便携，操作简便
Easy clinical & mobile use

PlasmaCare Vet轻便、便携，设计易于使用-无论是在诊所、上门服务还是移动兽医单元中。它无缝融入任何诊所，为现代兽医专业人员提供灵活性和便利性。

PlasmaCare Vet is lightweight, portable, and designed for ease of use—whether in a clinic, during house visits, or in a mobile veterinary unit. It fits seamlessly into any practice, offering flexibility and convenience for modern veterinary professionals.



无痛非侵入性
Painless & Non-Invasive

PlasmaCare Vet采用先进的冷离子技术，可无切口、无烧灼或损伤组织。治疗无需接触。宠物体验无痛无创伤。

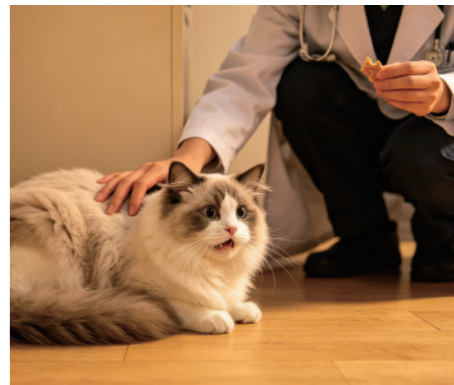
PlasmaCare Vet uses advanced cold and DBD plasma technologies that do not cut, burn, or damage tissue. Treatments are contact-free or gently applied, ensuring animals experience no pain or trauma—perfect even for sensitive or injured pets.



无抗生素，无化学剂
Antibiotic & chemical free

PlasmaCare Vet提供一种天然、无药物的替代传统药物的方法。它减少或消除了对抗生素、类固醇和化学消毒剂的需求，这对于有过敏或敏感性的宠物尤为重要。

PlasmaCare Vet provides a natural, drug-free alternative to traditional medications. It reduces or eliminates the need for antibiotics, steroids, and chemical disinfectants—especially important for pets with allergies or sensitivities.



Group Introduction

集团概况

DGE是一家位于中国深圳的前瞻性公司，专注于先进的医疗设备、配件和宠物健康解决方案。

我们的核心产品包括设计用于非侵入性、无药物治疗的伤口、皮肤状况、感染和术后恢复的等离子体治疗设备。每个设备的开发目标都是为了使治疗更有效，对动物的压力更小，同时兽医专业人员使用起来更加直观。

DGE还提供一系列智能配件和保健产品，以增强日常宠物护理并加强人与动物之间的联系。无论是在诊所还是在家中，我们的解决方案都体现了对质量、舒适和创新的承诺。

在DGE，我们相信宠物应该得到与人类同等标准的护理--我们很自豪地站在塑造更智能、更健康动物护理未来的前沿。



DGE is a forward-thinking Shenzhen company specializing in advanced medical devices, accessories and pet health solutions. Our core products are plasma therapy devices for non-invasive, drug-free treatment of wounds, skin conditions, infections and post-op recovery, designed for effectiveness, less animal stress and intuitive veterinary use. We also offer smart accessories and wellness products to enhance daily pet care and human-animal bonds, with a commitment to quality, comfort and innovation in clinics and at home. At DGE, we believe pets deserve human-standard care and are proud to lead in shaping a smarter, healthier future for animal care.



愿景

让全球的科技，疗愈每一只宠物
DGE Pet 立志成为全球领先的宠物医疗科技企业
通过持续的科研创新与国际合作，让先进的医学技术服务于每一位宠物与爱宠人群

Vision

Global Technology Heals Every Pet. DGE Pet aims to be a world-leading veterinary tech brand. Through continuous R&D and global cooperation, we bring advanced medical care to pets and their owners.

使命

以科技温度，守护生命健康
我们专注于物理治疗科技的跨界创新
将人用医疗级技术转化为宠物可用的专业设备
让科学真正融入动物康复、护理与生活

Mission

Technology with Warmth, Safeguarding Pet Health. We innovate physical therapy tech, adapt human-grade solutions for pets, and integrate science into their rehabilitation, care and daily life.