

核心特性 Core Features

全速度范围手感出色

Excellent training experience in full speed range

无卷线盘无跳线问题

No winding drum, no cable jumping issues

全程配合厂家开箱即用

Full support for out-of-the-box turnkey solution

可选正弦波滤波器

Optional sine wave filter

PFC宽电压兼容

PFC wide voltage compatibility

100万次老化测试

1 million cycle aging test



单/双电机可选

Single/Dual Motor
Optional

强制风冷

Forced Air Cooling

远程 OTA 升级

OTA Upgrade Support

可定制力量模式

Customizable Force
Modes

过热保护

Over temp protection

过载保护

Overload protection

过压/欠压保护

Voltage protection

缺相保护

Phase loss protection

技术规格 Technical Specifications

参数 Parameter	P6-25kg LIGHTWEIGHT	P6-50kg STANDARD	P6-80kg PROFESSIONAL
单侧最大力量 Max Force (Single Side)	25 kg	50 kg	80 kg
单电机峰值功率 Peak Power (Per Motor)	700 W	1400 W	2000 W
电机重量 Motor Weight	3.5 kg	5.5 kg	8.1 kg
电机尺寸 Dimensions	T 70 · S 20 Ø 165 · C 150	T 96 · S 20 Ø 254 · C 233	T 112 · S 20 Ø 254 · C 233

单位 mm; T=厚度, S=轴径, Ø=直径, C=卷线直径 Unit: mm — T = Thickness, S = Shaft dia., Ø = Outer dia., C = Cable reel dia.

技术规格 (续) Technical Specifications (Cont.)

电器与环境 Electrical & Env

输入电压 AC 100-240V, 50-60Hz
Input Voltage

通讯接口 TTL Serial, 2500V isolated,
Comms CRC
Interface

使用环境温度 10 to 40 °C
Operation Ambient Temp

使用环境相对湿度 10% - 90%
Operation Relative Humidity 表面无凝结 No condensation

储存环境温度 -20 to 80 °C
Storage Ambient Temp

拉出/回收速度 0-10 m/s
0-3 m/s
Pull / Retraction Speed
受功率限制 Limited by power

电磁兼容性 EN IEC 55014-1 / 55014-2
(EMC) 符合国际家用电器标准 Household appliance
EMC Standard compliant

尺寸与重量 Dimensions & Weight

电机固定 M16电机轴 扁对扁12mm宽, 单边
轴固定
Motor Mounting M16 Shaft, 12mm flat-to-flat, Single-side
mounting

驱动器尺寸 200 × 132 × 60 mm
Driver Dimensions

驱动器固定 可配合用户器械调整
Driver Mounting Adjustable to user equipment

驱动器重量 1.1 kg
Driver Weight

部件清单 Part List

名称 Part	数量 Qty	描述 Description	配置 Configuration
驱动器 Driver	1	V7 版本 V7 Version	标配 Included
电机 Motor	1或2 1 or 2	-	标配 Included
信号线 Signal Cable	1	驱动器信号线 Driver Signal Cable	选配 Optional
绳索 Cable	10 m	双层编织尼龙绳 Double-braided nylon rope	选配 Optional
把手及卡扣 Handle & Buckle	2 Each	防滑普通款 Anti-slip normal	选配 Optional

8种智能力量模式 8 Intelligent Force Modes

蓝悟 P6 系列动力系统在底层运动控制算法中集成了 8 种专业的力量模拟与控制模式，能够完美替代传统物理重量并衍生出全新的数字化训练体验。

The BlueAwake P6 series integrates 8 professional force simulation and control modes within its core motion control algorithm, perfectly replacing traditional physical weights and creating entirely new digital training experiences.

01 恒力模式 CONSTANT MODE

全程提供可调节的恒定拉力，超越传统配重（如哑铃、杠铃或铁块）的训练感受。无论动作速度快慢，阻力始终保持一致。

Provides an adjustable, constant tension throughout the entire range of motion, perfectly simulating the feel of traditional weights.

02 向心等张 CENTRIPETAL ISOTONIC

仅在肌肉向心收缩阶段（发力拉出阶段）提供阻力，当使用者在离心阶段（回收阶段）放松时，系统自动泄力。适合针对发力爆发阶段的纯粹刺激并保护关节。

Provides resistance only during the concentric contraction phase (pulling phase). When the user relaxes during the eccentric phase, the system releases tension.

03 离心等张 CENTRIFUGAL ISOTONIC

仅在肌肉离心收缩阶段（系统回收阶段）提供强大的阻力，强迫使用者用肌肉对抗拉力进行制动。有效强化肌肉的制动控制能力并加速肌肉肥大。

Provides strong resistance exclusively during the eccentric contraction phase (system retraction), forcing the user to use muscle tension to brake.

04 弹力模式 ELASTIC MODE

精准模拟高强度弹力带的物理特性，阻力大小随绳缆拉伸长度的增加呈线性增大，为训练者提供平滑的渐进式超负荷体验。

Accurately simulates the physical properties of heavy-duty resistance bands. The resistance increases linearly as the cable is pulled further.

8种智能力量模式 (续) 8 Intelligent Force Modes (Cont.)

05 流体阻力 FLUID MODE

模拟划船机或水中运动的阻力反馈。阻力大小与拉拽速度的平方成正比——动作速度越快，受到的阻力就显著增大；动作越慢，阻力越小。

Simulates the resistance feedback of a rowing machine or exercising in water. The resistance is proportional to the square of the pulling speed.

06 拳击耐力训练模式 BOXING ENDURANCE MODE

非标配 Optional

专为提升出拳速度与神经肌肉反应设计。系统利用高响应电机提供适度的基础阻力。适用于高频次、高速度的空击或带阻耐力训练。

Designed specifically to enhance punching speed and neuromuscular response. Ideal for high-frequency, high-speed shadow boxing.

07 末端释放模式 TERMINAL RELEASE MODE

非标配 Optional

完美还原真实出拳的“鞭打式”发力机制。训练者全力加速至动作终点时，系统在顶点瞬间主动释放全部阻力，允许肢体完成自然的减速与惯性延伸。

Perfectly replicates the "whip-like" power generation mechanism. As the user accelerates with full force, the system instantly releases all resistance at the peak.

08 拉力动稳模式 DYNAMIC STABILITY MODE

非标配 Optional

在持续的基础拉力之上，系统会利用算法随机叠加阻力的突变，逼真模拟竞技实战中对手推拉、格挡或位移带来的不可预测的物理干扰。迫使训练者在动态且紊乱的扰动中去维持身体的核心结构与发力节奏。

On top of a continuous base resistance, the system randomly superimposes sudden force mutations, simulating unpredictable physical interferences encountered in combat sports.