

CAMEL SMART MONITORING SYSTEM · BY GREENFIELD HYDROPONICS (GHI)

Know every camel, day and night.

The same smart collar and connected platform developed for our horse program, fitted for camels — tracking how each animal lives, moves and eats across racing stables, dairies, breeding farms and open desert range.

EXECUTIVE SUMMARY

From guesswork to measured care — in the hardest climates

Camel operations are often large, remote and hot. Herds spread across wide ranges, checks are infrequent, and the first signs that something is wrong — a change in appetite, activity or rest — are easy to miss, especially overnight or far from the yard.

The Camel Smart Monitoring System, developed by Greenfield Hydroponics Inc. (GHI), closes that gap. The **Camel Core** collar — built on the same hardware as our Equine Core — records activity, rest, location and feeding behavior around the clock. Paired with scale-equipped **Smart Feed** stations, it shows exactly how much each camel actually eats, so operators can compare hay, alfalfa, pellets and fresh hydroponic fodder using real data.

AT A GLANCE

- **24/7 monitoring** of activity, rest and feeding — per camel
- **Built-in cellular + GPS:** no antennas or gateways to install across the range
- **Geofences** for free-ranging herds; 72+ hours stored beyond coverage
- **Intake by weight** with smart feeders — see what each camel really eats
- **Designed for heat:** target operating range up to 122 °F (50 °C)
- **Alerts that explain why,** compared with each camel's own normal



Made to wear 24/7

A light 2.6 oz capsule rides high on the neck, facing the sky for strong GPS. A longer, soft-lined strap sized for camels, with a breakaway link that releases if the animal gets caught.



Know what they eat

The collar logs when and how long each camel eats. Smart Feed stations with built-in scales add how many kilograms or pounds were actually consumed.



Grown where they're fed

Greenfield hydroponic fodder grows fresh on a roughly seven-day cycle, using about 660 L of water per ton versus 270,000 L for conventional forage.

HOW IT WORKS

Collar, feeder, cloud — one picture of each camel



1 Wear

Each camel wears a Camel Core collar. A 6-axis motion sensor captures movement, feeding and rest; GPS tracks position across stable, yard or range.

2 Weigh

Smart Feed stations with load-cell scales record how much feed each camel removes, matched to the camel at the feeder.

3 Connect

Data travels over the collar's own LTE-M / NB-IoT link. Out on the range and out of coverage, it stores 72+ hours and syncs when back in range.

4 Understand

The platform learns each camel's normal pattern and flags meaningful changes, explaining what changed and why it matters.

THE PLATFORM

Camel Core

Smart collar: activity, rest, location, feeding behavior

Smart Feed

Scale-equipped feeders that measure actual intake

Camel Cloud

Secure data platform, history and herd-wide reporting

Camel Mobile

Phone and tablet app for owners, handlers and vets

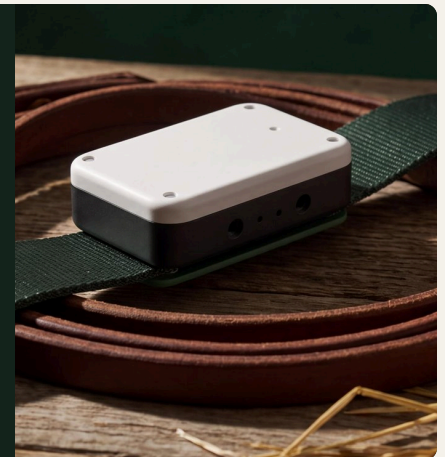
Camel AI

Per-camel baselines and alerts that explain the "why"

CAMEL CORE · SPECIFICATIONS

Same proven core, camel-ready fit

SIZE / WEIGHT	80 × 54 × 21.5 mm (3.1 × 2.1 × 0.85 in) · approx. 73 g (2.6 oz)
CONNECTIVITY	LTE-M / NB-IoT cellular · GPS · Bluetooth LE
SENSORS	6-axis IMU (motion) · device temperature
MEMORY	72+ hours of data stored without coverage
BATTERY	Rechargeable · target 14+ days per charge
CHARGING	Magnetic dock with sealed contacts
PROTECTION	Target IP67 · -4 °F to 122 °F (-20 °C to +50 °C)
FIT & SAFETY	Camel-length soft-lined strap, no sharp edges, breakaway link



660 L

water per ton of hydroponic fodder vs. 270,000 L for conventional forage

~80%

natural moisture — helps hydration in arid climates

~7 days

from seed to fresh fodder, grown on site year-round

Up to 70%

potential feed-cost savings cited in Greenfield materials

WHO BENEFITS

Built for everyone who cares for camels

- **Racing stables & trainers** — activity, rest and recovery after exertion, with documented feeding
- **Camel dairies** — per-animal intake and activity alongside the milk program
- **Breeders & herders** — geofences and early warning for free-ranging herds
- **Veterinarians** — objective activity, rest and intake history to support exams
- **Farm managers** — feed-program comparisons and lower waste based on measured intake

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Product in development (prototype). The Camel Core uses the Equine Core hardware design; specifications are design targets, pending testing and certification for camel use. Alerts are behavioral observations, not veterinary diagnoses. Device images are AI-generated renderings based on the device CAD design. Fodder figures are from Greenfield Hydroponics materials; actual results depend on seed, conditions and ration.