

G-ka MOCO

MOTION CONTROL

A LEADING BRAND IN CHINA'S
CAMERA & CINEMA ROBOTICS FIELD.

G-ka

G-ka official account
Links of the complete product line.



China Homepage: www.gkamoco.com.
Global Homepage: www.gkamoco-global.com
WhatsApp: +852-91262196

G-ka

MOTION CONTROL IN A NEW ERA OF VIDEO CREATION

CAMATE150

MOTION CONTROL



A CREATIVE MACHINE THAT EXPANDS THE BOUNDARIES OF YOUR THINKING

EXPLORING THE BOUNDARIES OF FILMMAKING

MOTION CONTROL

WITH THE LIGHTWEIGHT AND PRACTICAL DOLLY BASE
THE MOTION CONTROL ROBOTIC ARM HAS HIGHER SITE ADAPTABILITY

BASIC SPECIFICATIONS

| Number of main joints | Repeat accuracy | Maximum arm span | Maximum reach | Maximum load capacity | Operating voltage |
|-----------------------|-----------------|------------------|---------------|-----------------------|---|
| 6 axes | 0.05mm | 1.5m | 2.7m | 12kg | 220v (Compatible with outdoor power sources) |

PRODUCT FEATURES



DOLLY FEATURES



High-strength structural design
Foldable design for easy transportation

Compatible with
620mm standard rails

Equipped with high-speed
shooting support legs



REDEFINING MOBILE SHOOTING SYSTEMS

ROLLY

MULTI-AXIS CNC CAMERA ROBOT-DOLLY DEVICES

MOTION CONTROL



DOWNWARD APPLICATION OF CINEMA ROBOT

EXPLORING THE BOUNDARIES OF FILMMAKING

BASIC SPECIFICATIONS

| Number of main axes | Maximum arm span | Maximum span | Maximum shooting height |
|-------------------------|-----------------------|---------------|--|
| 6 axes | 1.5m | 2.7m | 2.7m |
| Minimum shooting height | Maximum load capacity | Repeatability | Working voltage |
| -0.2m | 13kg | 0.03mm | 220v (compatible with outdoor power supplies) |

1 Comprehensive mobile shooting:

No need to replace multiple accessories, and can simulate comprehensive motion modes of PV, Slider, Jib, Crane, and Remote head.

2 Compatible with standard rails:

Fully compatible with 620mm gauge standard rails.

3 Easy and free movement and steering:

Handle with straight-through large-angle self-locking steering wheels, enabling easy movement and convenient transition.

4 Single-sided base:

Increases arm span efficiency by 15%, allowing the cart body to be closer to the subject, facilitating arm shooting in scenarios such as drilling into car windows.

MOTION
CONTROL

A CNC SHOOTING DOLLY
ENABLES FILMING WITH MULTIPLE
COMMON MOBILE DEVICES,
APPLICABLE TO THE SHOOTING OF MOVIES,
TV DRAMAS, TVCS, ETC.



INTELLIGENT SOLUTIONS FOR TV BROADCAST

FLEX-TV

MOTION CONTROL



CONNECT MORE POSSIBILITIES

EXPLORING THE BOUNDARIES OF FILMMAKING

| NUMBER OF MAIN AXES | REPEATABILITY | MAXIMUM ARM SPAN | MAXIMUM SPAN | MAXIMUM LOAD CAPACITY | WORKING VOLTAGE |
|---------------------|---------------|------------------|--------------|-----------------------|-----------------|
| 6+3 axes | 0.05mm | 1.9m | 3.2m | 25kg | 380v |

BASIC SPECIFICATIONS

- 25kg super load capacity, supporting the installation of teleprompters.
- IP67 protection class fully enclosed arm design with all internal wiring, ensuring safety, reliability, and aesthetics.
- Ultra-wide temperature adaptability from -12°C to 55°C, no need for warm-up at low temperatures.
- Inline interface box with Tally light.
- Industry-leading robotic arm mute system, suitable for news live broadcast environments.
- Equipped with multi-dimensional electronic anti-collision mechanism.

- Graphical UI interface that conforms to the director's working habits.
- Supports third-party linkage triggering for automatic operation.
- Allows control of the robotic arm, lens zoom, and focus in the software.
- Detection of basic data of the robotic arm and temperature of each axis.
- Supports manual and automatic operation.
- Compatible with a dedicated supporting console. Real-time programming operation.



VIRTUAL PRODUCTION SOLUTIONS:

- Supports UDP and freed interface protocols.
- Equipped with GENLOCK frame synchronization lock
- Supports lens focus and zoom
- Position resolution: <0.01mm; angle resolution: <0.001 degree.
- Perfectly compatible with supported engines: Unreal, Disguise, Vizrt, Aximmetry, Hecos, Unity 3D and other virtual systems.



LIGHTWEIGHT CINEMA AND CAMERA ROBOTIC ARM

LUNA

YOUR ROBOT CAMERAMAN

MOTION CONTROL



With 8 years of industry expertise, G-ka has amassed a vast library of shooting movement assets. By integrating with the CNC slide rail and optimizing based on Luna's unique features, you can now call up your favourite slide rail movements to shoot quickly—no programming skills required. Our innovative gamified interface makes filming as enjoyable and effortless as playing a game.

REVOLUTIONIZE TRADITIONAL FILMING AND SHOOTING WORKFLOWS.

BASIC SPECIFICATIONS

| Maximum arm span | Maximum span | Maximum load capacity | Self-weight |
|------------------|-------------------------------------|-----------------------|-------------|
| 1m | 2.7m (including 1.5m clear rail) | 7kg | 38kg |

- 1 Supports Game Shot template asset shooting
- 2 Supports Bluetooth Game controller operation
- 3 Supports complex visual effect programming
- 4 Supports teach pendant programming
- 5 Supports quick-start programming software (IC, Robot Studio, VFX Robot)



Support Bluetooth Gamepad



Support CNC Track



Support Turntable

LUNA



BLUETOOTH GAME CONTROLLER

CNC 1.5M TRACK
OR CNC TURNTABLE

HIGH MOBILITY CAMERA ROBOT

DYNA
ON-SET ESSENTIAL
MOTION CONTROL



Compact in structure, versatile in function, and highly expandable, it has been widely used in films, TV dramas, television broadcast, web dramas, TVC commercials, e-commerce, live streaming, education, and other fields.

FILMSET STANDARD GEAR

EXPLORING THE BOUNDARIES OF FILMMAKING

BASIC SPECIFICATIONS

| Main Axes | Maximum Arm Reach | Maximum Span | Maximum Camera Height |
|--|-------------------|-----------------------------|-----------------------|
| 6 axes | 1.5m | 2.7m | 2.7m |
| Minimum Camera Height | Maximum Payload | Repeat Positioning Accuracy | Operating Voltage |
| 0.1m | 13kg | 0.03mm | 220v |
| (compatible with outdoor power supplies) | | | |

1 Moco Joystick & Wheel

With the optional AI wheel, it can simulate the functions of Fisher dollies, sliders, small jib arms, telescopic cranes, remote controls, and other mobile devices. Moreover, it can track and record camera movements in sync with actors' emotions and rhythms.

2 Fully Sealed Arm Body

The fully sealed arm casing provides enhanced protection, ensuring greater reliability especially during high-speed liquid photography or outdoor shooting.

3 Compact Size

The base, designed based on extensive shooting scenarios, can easily pass through most doors and elevators. Additionally, it features 48mm tube holes at the four corners for easy manoeuvring over thresholds and upstairs.

4 Wider Application Environment

With a 220V power supply and a maximum power requirement of 2kW, it can operate in almost all venues and supports outdoor power sources.

DYNA
MOTION
CONTROL

THE INNOVATIVE SINGLE-SIDED
BASE DESIGN EFFECTIVELY
INCREASES ARM UTILIZATION BY 15%.



LARGE-SCALE CAMERA & CINEMA ROBOTICS

MAX 32

MOTION CONTROL



Thanks to its extra-large arm reach for broader movement range and high speed for enhanced dynamic expression, MAX 32 has become an essential tool for special visual effects—especially standardized equipment for automotive shooting.

THE KING OF ONE-TAKE MOVEMENT CONTROL

BASIC SPECIFICATIONS

| Main Axes | Maximum Arm Reach | Maximum Span | Maximum Camera Height |
|-----------------------|-------------------|-----------------------------|-----------------------|
| 6 axes | 3.2m | 5.5m | 4.5m |
| Minimum Camera Height | Maximum Payload | Repeat Positioning Accuracy | Operating Voltage |
| -1.4m | 15+3kg | 0.05mm | 380v |

1

Extra-Large Arm Reach

Enables wide-range movement shooting and can replace track systems with its large span, improving on-set efficiency.

2

High-Speed Performance

Offers a maximum linear speed of 19m/s and interpolation speed of 8m/s, excelling in high-dynamic, fast-paced shooting.

3

Joystick & Wheel

With the optional AI wheel, it can simulate functions of Fisher dollies, sliders, small jib arms, telescopic cranes, remote controls, and other mobile devices. It can also track and record camera movements in sync with actors' emotions and rhythms.

4

Versatile Interfaces

Equipped with abundant input/output interfaces, enabling integration with various other devices.

MAX 32

MOTION CONTROL



THE 4TH AXIS PROVIDES $\pm 360^\circ$ ROTATION,
ENABLING MORE COMPLEX CAMERA MOVEMENTS.

HEAVY-DUTY CAMERA ROBOT ARM

HULK
MOTION CONTROL



THE UNDERTAKER OF TOUGH TASKS

BASIC SPECIFICATIONS

| Main Axes | Maximum Arm Reach | Maximum Span | Maximum Camera Height |
|-----------------------|-------------------|-----------------------------|-----------------------|
| 6 axes | 2.6m | 4.3m | 3m |
| Minimum Camera Height | Maximum Payload | Repeat Positioning Accuracy | Operating Voltage |
| -0.2m | 200+10kg | 0.06mm | 380v |

Built to tackle tough tasks

This model features high load capacity and strong compatibility. Beyond filming, it can carry special effects equipment, lighting, displays, and even enable actors to perform safe, high-difficulty complex motion trajectories. It also supports real-time data output to virtual engines for virtual production. This system has been used in movie productions such as *Assassin in Red*, *The Sacrifice*, and *Moon Man*.



Equipped with various accessories—including lighting brackets, model supports, wire-action harnesses, and camera gimbals—it adapts to diverse specialized shooting needs.

Supports preview in Maya and import of FBX camera movement files.

HULK
MOTION
CONTROL

WITH MULTIPLE PERIPHERAL
INTERFACES AND CHANNELS,
IT CAN INTEGRATE WITH
VARIOUS SPECIAL DEVICES.



APPLICATION SOFTWARE FAMILY

Professional Grade
Professional-level in-depth
application software



Robots Studio



TV Broadcast Exclusive
Specific program camera
movement control software



Motion Play



Camera Robot
Quick Learning Program Software



Intelligent Control



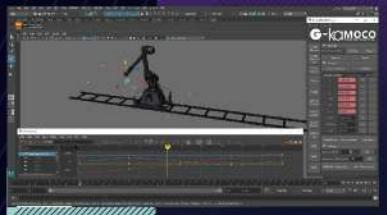
TV Broadcast Exclusive
Specific broadcast control software



Auto Play



Full visual effect FBX Robot
Maya special effect
programming plug-in



VFX Robot



Low Learning Curve with customizable
Commercial shooting and
live broadcast software interface



Shot Game



LINKED CNC TRACK

- Can accurately link with robotic arms, enabling simultaneous speed adjustment and quick modification
- Allows setting of buffered start/stop
- Supports limit setting
- Equipped with gauge adapter



LINKED CNC TURNTABLE

- Can accurately link with robotic arms, enabling simultaneous speed adjustment and quick modification
- Supports infinite rotation
- High-speed and heavy-load capacity
- Effectively improves product shooting efficiency



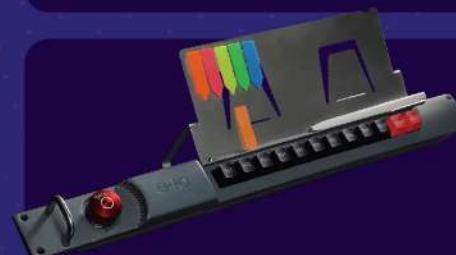
LINKED CNC FOLLOW FOCUS MOTOR

- Can accurately link with robotic arms, enabling simultaneous speed adjustment and quick modification
- Brushless direct-drive motor specially developed for high-speed shooting.
- Can be used as a driving track or "popcorn" rolling ring



ACTION PROMPTER

- Provides accurate prompt signals for actors
- Can be set to sound and light prompts



CAMERA MOVEMENT DIRECTOR SWITCHER

- Can store 10 commonly used camera movements
- Allows arbitrary calling and triggering of camera movements for unmanned shooting
- Provides reliable unmanned shooting for news studios and e-commerce live broadcast rooms
- One device achieves multi-camera effects



VP/XR VIRTUAL DATA MODULE

- Can output FREE D signals
- Equipped with GENLOCK synchronization
- Supports almost all mainstream virtual engines such as UE, DISGUISE, and Hecoos...



DMX TRIGGER

This device can trigger the movement of robotic arms via the DMX512 protocol, enabling synchronized program production with lighting and other facilities, especially...

G-ka SPECIAL FILMING



8 YEARS OF EXPERIENCE IN SPECIAL FILMING INDUSTRY

FROM FILMS AND TV DRAMAS, RADIO AND TELEVISION, ADVERTISEMENTS, TO SELF-MEDIA VIDEO PRODUCTION, LIVE BROADCASTS, AND EVEN EDUCATION AND CULTURAL TOURISM, IT HAS PLAYED AN INNOVATIVE ROLE.

- Over 50,000 Hours of Accumulated Practical Operation Experience
- More than 30 Independent Intellectual Property Rights
- The 2nd China (Baisha) Film Industry Week "Technology Exploration Award"
- Annual Technical Innovation Application Award at China Chongqing Science and Technology Film Week
- Recommended Enterprise for Film Metal Characters Honor
- Total Box Office of Participated Films Exceeds 18 Billion RMB
- Participated in Over 1,000 TVCs



Film

- "DETECTIVE CHINATOWN 3"
- "PEGASUS 1 & 2"
- "MOON MAN"
- "ASSASSIN IN RED" (DIRECTOR: LU YANG)
- "SHEEP WITHOUT A SHEPHERD 2"
- "MOZART FROM OUTER SPACE"

- "THE SACRIFICE"
- "ONLY FOOLS RUSH IN"
- "DETECTIVE CHINATOWN: INVITATION TO A MURDER"
- "SMILE, YOU'RE GORGEOUS"
- "DOGVILLE"
- "DON'T WANT TO BE FRIENDS WITH YOU"

Web series TV dramas

- "LOVE AND DESTINY"
- "SUDDENLY SEVENTEEN"
- "POLICE YOUTH"
- "THE BLESSED"

- "LOVE OF HYPNOSIS"
- "CANDLE IN THE TOMB: DRAGON RIDGE TREASURE"
- "CANDLE IN THE TOMB: THE WORM VALLEY"

Variety shows

- "OPENING SEQUENCE OF THE MILITARY PARADE FOR THE 70TH ANNIVERSARY OF THE FOUNDING OF THE PEOPLE'S REPUBLIC OF CHINA"
- "A BITE OF CHINA: FLAVOURS OF THE WORLD"
- "TOUCHED BY CHINA"
- "MILITARY PARADE FOR THE 80TH ANNIVERSARY OF THE LONG MARCH"
- "BIRTH OF AN ACTOR"
- "SUPER DIMENSION IDOL"
- "LET'S MOVE"
- "CHENGHUA 14 YEARS"

PARTICIPATED IN PROJECTS SUCH AS

