

CPM GROUP

AERIAL Systems Capability Profile
Confidential & Proprietary

FLYING LAB DIVISION

GCC | MENA | Levant | Africa | Americas

About the Division

CPM Group's Aerial Systems Division operates under the Flying Lab brand — a premier drone solutions enterprise delivering precision aerial intelligence, cinematic production, and advanced inspection services to industry and government. Flying Lab combines cutting-edge UAV technology, certified expert pilots, and AI-integrated workflows to deliver measurable operational value across sectors.

With over 15 years of field experience, the Division is built on three core principles: Safety. Precision. Innovation — aligned with CPM Group's principal-led model of direct technical accountability at every engagement.



FLYING LAB

ONE SKY. ENDLESS POSSIBILITIES.

DEFINING PERSPECTIVES. DELIVERING POSSIBILITIES.

Flying Lab is a premier drone solutions company specializing in cinematic productions, aerial surveying, inspections, LED drone shows, and drone training.

With **over 15 years of experience**, we deliver innovative aerial solutions that combine technology, precision, safety, and creativity to empower industries and elevate visions.



15+
YEARS OF
EXPERIENCE



SAFETY.
PRECISION.
INNOVATION.



CINEMATIC
PRODUCTIONS



SURVEYING &
MAPPING



INSPECTIONS &
MONITORING



DRONE
LIGHT SHOWS



LED DRONE
SOLUTIONS



TRAINING &
ACADEMY

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Key Credentials

Experience	15+ years of UAV field operations in cinematic production, aerial survey, inspection, and drone light show deployments internationally
Certifications	Licensed and insured UAV operations — full regulatory compliance across all deployment jurisdictions
Technology	4K / 6K / 8K cinema-grade equipment · multi-sensor payloads · GNSS-integrated survey sensors · thermal and zoom imaging
AI Integration	AI-assisted defect detection and predictive maintenance analytics — integrated across all inspection service lines
Deployment	Internationally deployable crews with full civil aviation regulatory coordination in all target airspace
Delivery	Safety · Precision · Innovation — direct technical accountability on every engagement; no subcontracted pilots

Division Service Lines

Cinematic Production	<i>Story-driven aerial visuals</i>	Film, TV, commercials, documentaries, events, real estate and digital content — 4K/6K/8K quality, FPV and tracking shots, certified pilots, efficient post-production turnaround.
Aerial Survey & Mapping	<i>Precision geospatial intelligence</i>	High-resolution 2D orthomosaics, 3D models, point clouds and topographic surveys — centimeter-level GNSS accuracy for planning, design, quantity estimation, and infrastructure monitoring.
Inspections & Monitoring	<i>Safe. Accurate. Actionable.</i>	Infrastructure, powerline, oil & gas, rooftop, solar panel and construction site inspection using RGB, thermal and zoom imaging — AI-assisted defect detection, GPS-tagged findings, and actionable reports.
Drone Light Shows	<i>Zero-emissions aerial spectacles</i>	Choreographed fleet drone displays for national events, brand launches, sports celebrations and large-scale public spectacles — fully programmable, reusable, zero emissions, silent deployment.
LED Drone Solutions	<i>Brand at scale, in the sky</i>	Custom LED drone arrays for advertising, corporate branding, architectural projection and large-scale visual experiences — precision formation flying indoors and outdoors at any scale.
Training & Academy	<i>Building the next generation of UAV professionals</i>	Certified pilot development programs, regulatory compliance, safety protocols, advanced mission planning, and custom corporate training — grounded in 15+ years of operational experience.

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CINEMATIC PRODUCTION

DEFINITION

Cinematic production with drones brings stories to life from breathtaking perspectives. We combine creativity, precision, and advanced technology to deliver stunning aerial visuals for film, TV, commercials, documentaries, events, and digital content.



STUNNING VISUALS

Capture breathtaking aerial shots that elevate your story.



PRECISION

Expert pilots and advanced equipment ensure smooth, safe, and cinematic results.



CREATIVITY

We transform ideas into powerful visual experiences.



FILM & TV



COMMERCIALS



DOCUMENTARIES



EVENTS



REAL ESTATE



SOCIAL CONTENT



1 PRE-PRODUCTION

We plan every detail from shot lists to flight paths for a seamless production.



2 AERIAL FILMING

Our expert pilots capture cinematic shots using professional drones and high-end cameras.



3 POST-PRODUCTION

Footage is edited and color-graded to deliver stunning, story-driven final content.



4 DELIVERY

High-quality cinematic content delivered on time, ready for any platform.



AERIAL CINEMATOGRAPHY

Dynamic aerial shots that add scale, emotion, and impact to your story.



FPV DRONE SHOTS

Immersive, high-speed FPV footage for a unique and engaging perspective.



HIGH-END EQUIPMENT

Top-tier drones, cameras, and stabilizers for cinema-quality results.



EXPERT PILOTS

Certified, experienced pilots with a creative eye and technical precision.



SAFETY & COMPLIANCE

We follow strict safety standards and regulations on every production.

- ✓ 4K / 6K / 8K CINEMATIC QUALITY
- ✓ RAW FOOTAGE DELIVERY
- ✓ GLOBAL CREW & SUPPORT
- ✓ LICENSED & INSURED OPERATIONS
- ✓ FAST TURNAROUND



CREATIVE VISION • ADVANCED TECHNOLOGY • FLAWLESS EXECUTION | ONE SKY. ENDLESS POSSIBILITIES.



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AERIAL SURVEY

DEFINITION

Aerial survey is the process of collecting accurate spatial data and images of the Earth's surface using drones equipped with advanced sensors and cameras. It delivers high-resolution data, 2D maps, 3D models, and point clouds that help industries plan, design, analyze, and make informed decisions with greater speed, safety, and accuracy.



HIGH ACCURACY

Centimeter-level accuracy for reliable results.



EFFICIENCY

Faster data collection, lower time and cost.



SAFETY

Reduce on-site risks and minimize human exposure.



DATA CAPTURE

High-resolution images and sensor data collected by drones.



DATA PROCESSING

Advanced software processes raw data into accurate geospatial outputs.



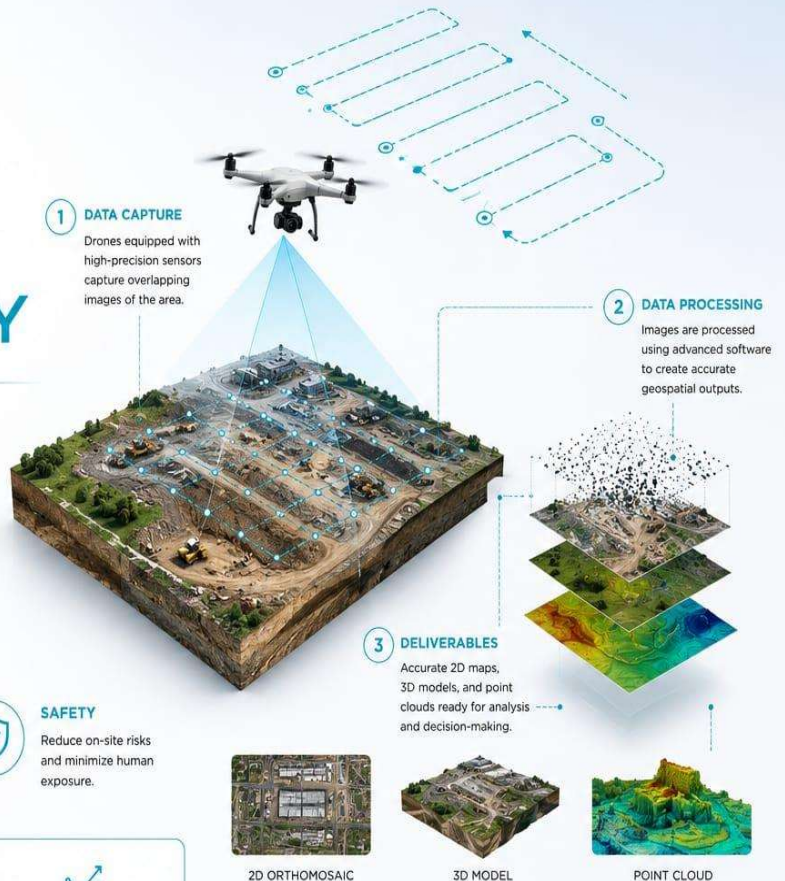
DELIVERABLES

2D maps, orthomosaics, 3D models, point clouds and more.



SMART DECISIONS

Actionable insights for planning, design and project success.



2D ORTHOMOSAIC



3D MODEL



POINT CLOUD

- ✓ TOPOGRAPHIC SURVEYS
- ✓ VOLUMETRIC ANALYSIS
- ✓ SITE MONITORING
- ✓ ASSET & INFRASTRUCTURE MAPPING
- ✓ CORRIDOR MAPPING

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AERIAL INSPECTION & MONITORING

DEFINITION

Aerial inspection and monitoring uses advanced drones and sensors to safely capture high-resolution data and real-time insights of assets and infrastructure. It helps industries detect issues early, monitor conditions, ensure compliance, and optimize maintenance with accuracy and efficiency.



SAFETY

Reduce risk by inspecting hard-to-reach or hazardous areas without human exposure.



ACCURACY

Capture precise data and detect issues with high-resolution sensors.



EFFICIENCY

Save time and cost with faster inspections and real-time insights.



1 DATA CAPTURE

Drones equipped with high-precision cameras and sensors capture detailed visual and thermal data.



3 ANALYSIS & REPORTING

Actionable insights and detailed reports help you make informed decisions.



2 DATA INSPECTION

Data is reviewed to identify defects, anomalies, or potential issues using advanced analysis tools.

4 MONITOR & MAINTAIN

Regular monitoring tracks asset health over time and supports predictive maintenance.



DATA CAPTURE

High-resolution RGB, thermal, and zoom imaging with advanced sensors.



DATA PROCESSING

Industry-leading software processes data for accurate analysis and condition assessment.



DEFECT DETECTION

Identify cracks, corrosion, leaks, hot spots, and structural issues early.



REPORTING

Detailed inspection reports with visuals, annotations, and recommendations.



MONITORING

Track asset conditions over time with repeat inspections and trends.

- ✓ INFRASTRUCTURE INSPECTION
- ✓ POWERLINE & TOWER INSPECTION
- ✓ OIL & GAS FACILITY INSPECTION
- ✓ ROOFTOP & STRUCTURAL INSPECTION
- ✓ CONSTRUCTION MONITORING
- ✓ ENVIRONMENTAL MONITORING



✓ SAFER INSPECTIONS | ✓ SMARTER DECISIONS | ✓ STRONGER ASSETS | ONE SKY. ENDLESS POSSIBILITIES.

Why Flying Lab

- ✓ 15+ years of UAV field operations experience
- ✓ Cinema-grade 4K/6K/8K production capability
- ✓ AI-assisted defect detection and predictive maintenance
- ✓ Internationally deployable crews with full regulatory coordination
- ✓ Licensed and insured in all deployment jurisdictions
- ✓ Centimeter-level survey accuracy with GNSS-integrated sensors
- ✓ Zero-emissions drone shows — a responsible alternative to pyrotechnics
- ✓ Safety · Precision · Innovation on every engagement

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Sectors Served

Real Estate | Infrastructure | Oil & Gas | Construction | Film & Media | Government & Events | Environmental | Telecommunications | Hospitality | Agriculture | Mining & Resources | Urban Planning

Representative Applications

- Cinematic aerial production — film, television, commercial and digital content programs internationally
- Topographic surveys and volumetric analysis — infrastructure, mining, and construction planning programs
- Infrastructure and powerline inspection — oil & gas, energy, and telecommunications sectors
- Construction progress monitoring — large-scale development programs, GCC and Africa
- Drone light shows — national events, government celebrations, and corporate brand launches
- Solar panel performance inspection — renewable energy programs
- UAV training and certification programs — corporate and government operator development

Engage Flying Lab from CPM Group

For mandates, partnership inquiries, or confidential consultations:

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Note: Specific project and client details provided under NDA upon engagement.