RIY-M10P IMAGING INFINITE

High performance metric camera Powerful sensor in compact size, flawless details in any case



Outstanding in every angle

All the outstandings are created for you



Medium Format CMOS

Medium format CMOS
The largest coverage
The highest dynamic range



Optical System

Self-developed MLE
100MP ultra-high resolution
Perfect balance of performance and weight



MS Shutter

Global mechanical shutter
Superior carbon fiber material
Minimize motion distortion



High Compatibility

Small and light

Multiple communication protocols

Easily integrated with mainstream UAVs



Stability

Specially designed core components

Ensure long-term operation

In every extreme environments



Software Support

Rainpoo supporting softwares
Highly improve data acquisition efficiency
Highly improve data processing

Technical specifications

All technical details deliver high performance

Technical specifications				
Weight with X-port	950g			
Dimension with X-port	207*156*176mm			
Pixels	100MP			
Pixel size	3.76µm			
CMOS size	43.8mm*32.9mm			
Min. exposure interval	0.5S			
Storage capacity	512G*2			
Data download	USB3.0			
Focal length	60mm			
Minimum focusing distance	20m			
Aperture	F5.6			
Power supply	Skyport			
Operating temperature	-10°C-45°C			
Data preprocessing software	Skyscanner for M10P/M10			
Route planning software	Rainpoo Route Assistant			

Ultimate Optical Module The ultimate materials and components

Extra-low Dispersion lens ED

Reduce the coma and chromatic aberration Improve the robustness of aerotriangulation

Aspherical glass lens

Control the optical aberration to within 4% Improve aerotriangulation workflow

100M pixels

100M pixels bring the ultra-high resolution



Built from superior quality carbon fiber ®

Covered with anti-condensation coating Tough in all situations

The biggest CMOS ensures the best working conditions Provide rich image details in poor light condition

Ultralight weight ®

Only950g, 60mm lens with X-port Ultralight weight built with top quality materials

Operation Efficiency The visible efficiency, the reliable deliverables

Rotary drone+M10P					
GSD(cm)	1	1.5	2	3	
Flight height(m)	160	240	320	480	
Operational speed(m/s)	10	10	10	10	
Coverage per flight(km²)	0.625	1.1	1.5	2.15	
No. of images per flight	530	417	320	205	
No. of flights per day	8	8	8	8	
Coverage per day(km²)	5	8.8	12	17.2	