

DJI Fly App Settings for Mini 4 Pro Aircraft

	Original	New Setting	Notes
Safety Settings:			
Flight Assistance:			
- Obstacle Avoidance Action	Brake	Bypass	Bypass makes RPAS fly more aggressively
- Bypassing Options	Normal	Nifty	Nifty smooths Bypass mode at expense of potential collisions
- Display Radar Map	ON		
Return to Home (RTH):			
- Advanced RTH	Optimal		Optimal is the preferred mode Set to ensure you avoid any obstacles when in Preset mode
- Auto RTH Altitude	100		
- Update Home Point			Selectable action
AR Settings:			
- Show AR Home Point	ON		
- Show AR Return-to-Home Route	ON		
- Show AR Aircraft Shadow	ON		
Flight Protection:			
- Max Altitude	120m		Cannot legally exceed 120m To remain legal this must be within your physical "line of sight"
- Max Distance	8000m	1700m	
Sensors:			
- Compass normal	Calibrate		Selectable action
- IMU normal	Calibrate		Selectable action
Battery:			
- Battery Info			Displays battery cell status, serial number and charge cycle count
- Auxiliary LED	Auto		
- Unlock GEO Zone			Selectable action
- Find My Drone			Selectable action
Advanced Safety Settings:			
- Signal Lost	RTH		HOVER when indoors or a forest WARNING: carefully consider what will happen if other settings are used
- Emergency Prop Stop	N/A		
- Visual Positioning & Obstacle Sensing	ON		Turn OFF if having difficulty landing (WARNING: will not decelerate near ground)
Control Settings:			
Aircraft:			
- Units	Metric (m)		
- Subject Scanning	OFF		Identifies tracking candidates
Focus Track Settings:			
- Subject	Person		
- Inner Radius	5m		
- Outer Radius	10m		
- Inner Height	2.0		
- Outer Height	5.0		

- Camera Motion
 - Near-Ground Flight
- Reset Focus Track Settings

Gain & Expo Tuning:

Normal

Aircraft:

- Max Horizontal Speed	12.0m/s		Lower values are less sensitive and will therefore need more stick input
- Max Ascent Speed	5.0m/s		Range 1.0 to 12.0m/s
- Max Descent Speed	5.0m/s		Range: 1.0 to 5.0m/s
- Max Angular Velocity	80°/s		Range: 1.0 to 5.0m/s
- Yaw Smoothness	12		Range 20 to 120°/s
- Brake Sensitivity	100		Range 0 to 100
- Expo:			Range 10 to 150 (keep high)
- Up/Down	0.3		How UAV reacts to external forces on the axis of movement
- Yaw	0.2		Expo range extends from 0.1 to 0.9
- Ritch/Roll	0.25		

Gimble:

- Max Control Speed (Tilt)	80°/s	50°/s	Range: 1 to 100
- Tilt Smoothness	15	20	Range: 0 to 30

Reset Current Settings

Cine

Aircraft:

- Max Horizontal Speed	6.0m/s		Range 1.0 to 12.0m/s
- Max Ascent Speed	2.0m/s		Range: 1.0 to 5.0m/s
- Max Descent Speed	1.5m/s		Range: 1.0 to 5.0m/s
- Max Angular Velocity	30°/s		Range 20 to 120°/s
- Yaw Smoothness	15		Range 0 to 100
- Brake Sensitivity	100		Range 10 to 150
- Expo:			How UAV reacts to external forces on the axis of movement
- Up/Down	0.3	0.16	Expo range extends from 0.1 to 0.9
- Yaw	0.2	0.16	
- Ritch/Roll	0.25	0.16	

Gimble:

- Max Control Speed (Tilt)	10°/s		Range: 1 to 100
- Tilt Smoothness	15		Range: 0 to 30

Reset Current Settings

Sport

Aircraft:

- Max Horizontal Speed	16.0m/s		Range 1.0 to 12.0m/s
- Max Ascent Speed	5.0m/s		Range: 1.0 to 5.0m/s
- Max Descent Speed	5.0m/s		Range: 1.0 to 5.0m/s
- Max Angular Velocity	130°/s		Range 20 to 120°/s
- Yaw Smoothness	10		Range 0 to 100
- Brake Sensitivity	100		Range 10 to 150
- Expo:			How UAV reacts to external forces on the axis of movement
- Up/Down	0.4		Expo range extends from 0.1 to 0.9
- Yaw	0.3		
- Ritch/Roll	0.4		

Gimble:

- Max Control Speed (Tilt)	30°/s		Range: 1 to 100
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- Tilt Smoothness
- Reset Current Settings

Gimbal:

- Gimbal Mode
- Gimbal Calibration
- Recenter Gimble

Remote Controller:

- Stick Mode

Button Customization:

- C1 Button
- C2 Button
- Left Dial
- Right Dial
- C1 + Right Dial
- C2 + Right Dial

RC Calibration

Flight Tutorial

Re-pair to Aircraft (Link)

Camera Settings:

Photo Mode:

- Format
- Aspect Ratio
- Resolution

Video Mode:

- Format
- Color
- Color Display Assist
- Coding Format
- Video Subtitles

General:

- Anti-Flicker
- Histogram
- Peaking Level
- Overexposure Warning
- Gridlines
- Frame Guide

0			Range: 0 to 30 Selectable action
Follow			Selectable action Selectable action
Mode 2			
Recentre/ Tilt Gimble	Aux Light		AUTO / ON / OFF
Portrait/ Landscape Mode			
Camera Tilt			
Zoom In/Out			
Adj Shutter Speed			
Adj ISO			Exposure compensation
			Selectable action
			Selectable action
			Selectable action
JPEG	JPEG+RAW		RAW gives more options in edit
16:9	4:3		4:3 provides extra verticality
12MP			48MP for best quality
MP4			
Normal	HLG		HLG: reqs less/no grading D-LogM reqs colour grading LUT
OFF			
H.265			H.265 requires greater processing capabilities
ON			
Auto			
OFF	ON		Dark (left) to Bright (right) – Expose your shot to get the waveform to sit somewhere in the middle & towards highlights
OFF	LOW		
OFF	ON		Indicates with zebra stripes areas where you are losing some of your highlights
OFF	ON		
2.39:1			

- White Balance	Auto	
Style:		
- Sharpness	0	
- Noise Reduction	0	
Storage:		
- SD Card	Inserted	Internal 2.0GB
- Customer Folder Naming	Set to location	Selectable action
- Custom File Naming		
- Cache When Recording	ON	Turn OFF to reduce processor overhead
- Max Video Cache Capacity	2GB	
Reset Camera Parameters		Selectable action
Transmission Settings:		
- Live Streaming Platforms	Dual-Band	
- Frequency	Auto	
- Channel Mode		
About Settings:		
- Name	DJI Mini 4 Pro	
- Wi-Fi Name	DJI_Min4_Pro_166D	
- Model	DJI Mini 4 Pro	
- App Version	<i>Displayed</i>	
- Aircraft Firmware	<i>Displayed</i>	Check for Updates selectable action
- RC Firmware	<i>Displayed</i>	
FlySafe Data:		
- App Static Safety Data	<i>Displayed</i>	
- Aircraft Static Safety Data	<i>Displayed</i>	
- Check for Updates		Selectable action
SN (Serial Numbers):		Displays serial numbers
- Battery SN	<i>Displayed</i>	
- Aircraft SN	<i>Displayed</i>	
- Flight Controller SN	<i>Displayed</i>	
- Remote Controller SN	<i>Displayed</i>	
- Camera SN	<i>Displayed</i>	

Notes:

- Ensure you review the on screen Resolution and FPS setting when selecting *Quick Shot* and *Master Shot* modes as these will differ from above camera setting
- Keep ISO speeds low as higher values introduces noise into images
- Use “180° rule” (double frame rate) for classic cinematic effect: i.e., Shutter speed 1/16th with 30 FPS
- AUTO White Balance can create problems for colour grading in post
- Use ND filters & set the Histogram somewhere in middle of range to allow adjustment headroom in post processing and obtain sharpest images