

A Change in Perspective Can Make a World of Difference



South Bay Aerial Photography.com

A Change in Perspective Can Make
a World of Difference

DJI Aerial (Drone) Photography



- Wide Angle, Medium Telephoto, 4:3 and 16:9 Aspect Ratio
- Controller View Vs Photo Taken
- Intelligent Flight Mode and Photo Limitations
- Hyperlapse versus Timelapse Capabilities and Limitations



 South Bay Aerial Photography.com

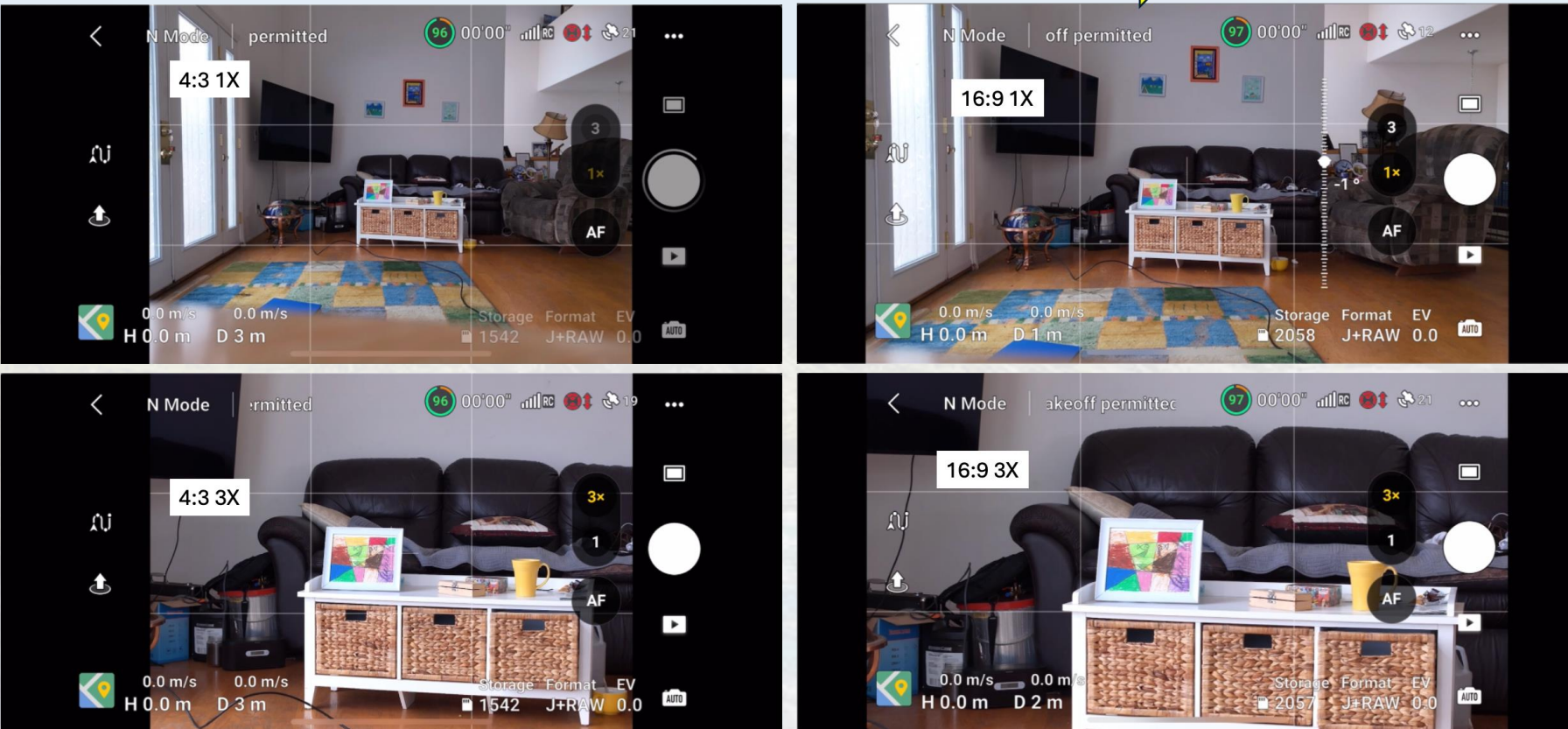
Picture Taken Overlay – 4:3 and 16:9, Wide Angle and Medium Telephoto Views



- 16:9 Aspect Ratio is inside of 4:3
- Switching Aspect Ratio simply removes the top and bottom
- Upper and lower areas in the 4:3 AR provide additional data points for Photogrammetry, Mapping, and Panorama applications

What we see on the controller when filming

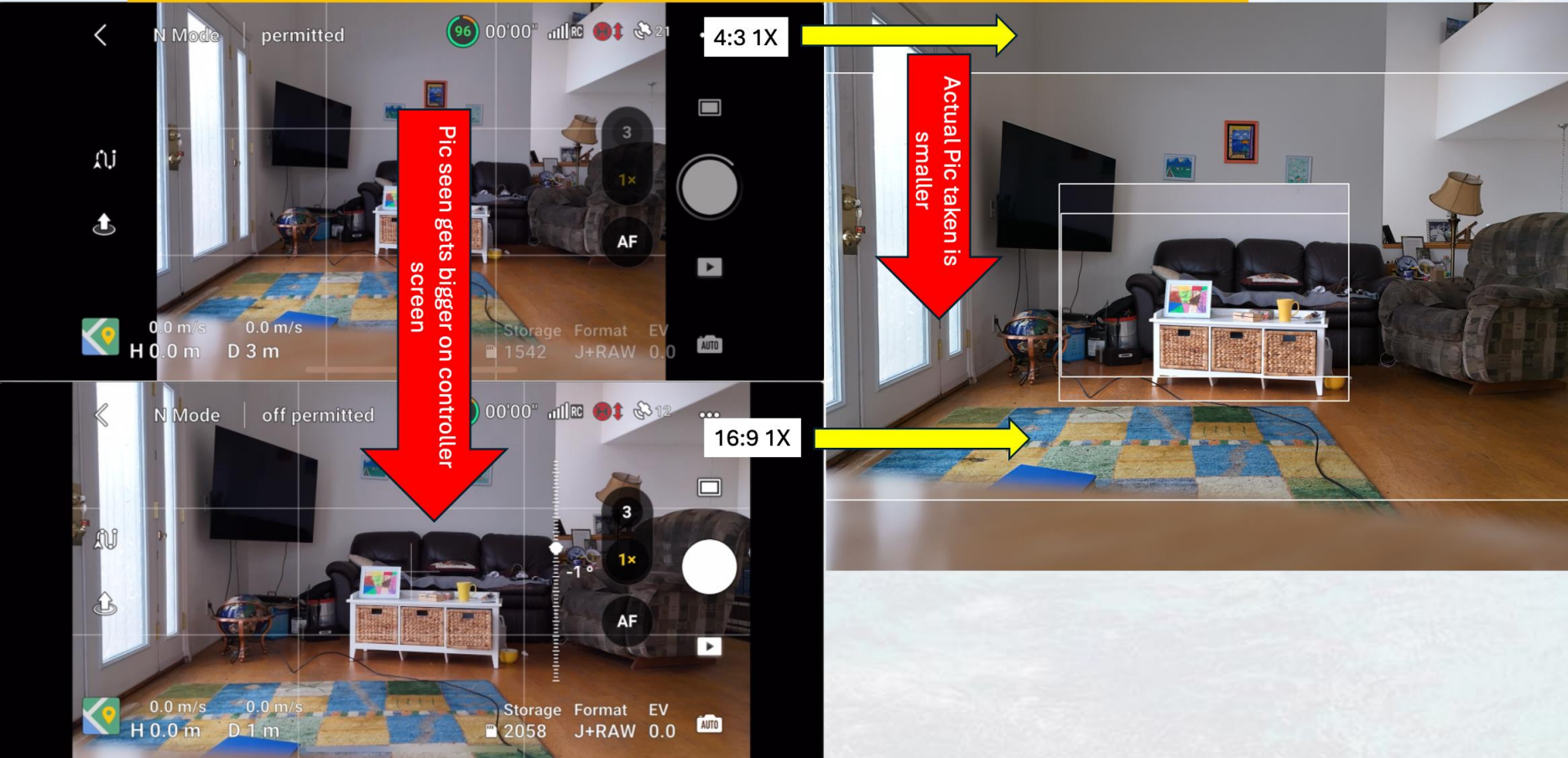
When switching from 4:3 photo to video or 16:9, the controller screen zooms in



- More of the scene is visible on the controller when switching from AR 4:3 to 16:9 or from 4:3 Photo to Video
- Can fool one into thinking they are seeing more of the lens Field of View

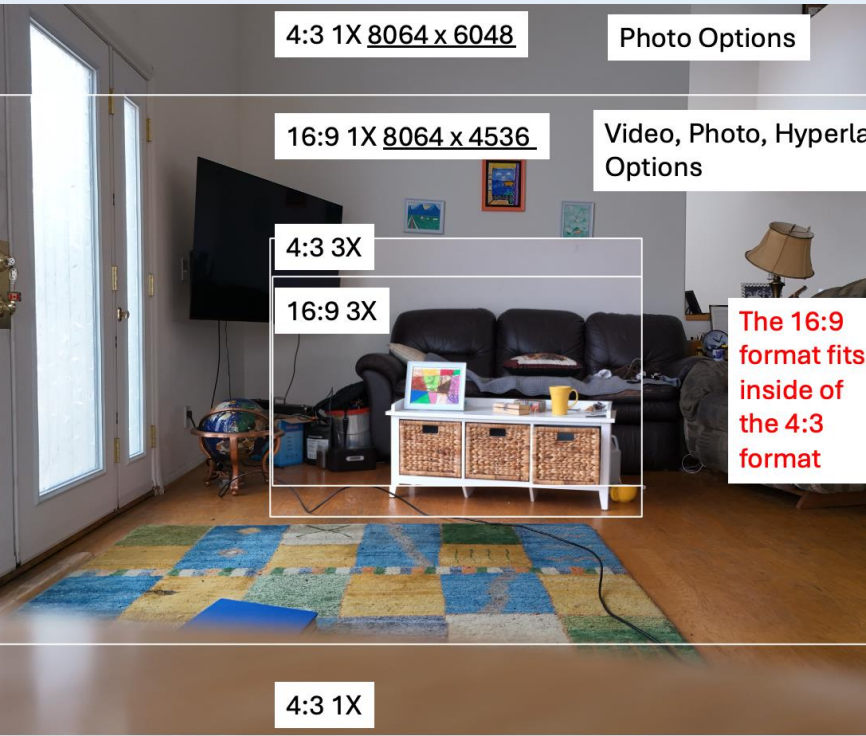
Controller View Vs Pic Overlay Comparison

Although the controller screen pic jumps in size when we switch, we are seeing less of the frame and taking a smaller picture



- When the Observed Pic on the controller gets larger, a smaller picture is being take

Table of Aerial Photo/Video Modes and Capabilities



Mode	Aspect Ratio	Lens	Resolution	Dimensions	Zoom	Tracking Mode
Photo – Single Shot	4:3	1X – Wide Angle 3X – Med TeleP	48 MP 12 MP	8064x6048 4032x3024	None??	Spot, Circle, Track
Photo – Single Shot	16:9	1X – Wide Angle 3X – Med Tele	48 MP 12 MP	8064x4536 4032x2268	None??	Spot, Circle, Track
Photo - AEB, Burst, *Timelapse	4:3 or 16:9	As Above	48 MP *5 s 12 MP *2 s	As Above	None??	None??
Video	16:9	1X – Wide Angle 3X – Med Tele	4K 4K	3840x2160 3840x2160	1-3X 1-3X (3-9X)	Spot, Circle, Track
Hyperlapse	Photo - 4:3 Video - 16:9	1X , 3X	12 MP -2 s 4K	4032x3024 3840x2160	None??	Free (Spot), Circle
Panorama	4:3	1X All Panos 3X Spherical only	12 MP 12 MP	4032x3024/Pic 4032x3024/Pic	None	None

DJI Air3 Capability Matrix

Mode	Aspect Ratio	Lens	Resolution	Dimensions	Zoom	Tracking Mode
Photo – Single Shot	4:3	1X – Wide Angle 3X – Med TelePhoto	48 MP 12 MP	8064x6048 4032x3024	None??	Spot, Circle, Track
Photo – Single Shot	16:9	1X – Wide Angle 3X – Med TelePhoto	48 MP 12 MP	8064x4536 4032x2268	None??	Spot, Circle, Track
Photo - AEB, Burst, *Timelapse	4:3 or 16:9	As Above	48 MP *5 sec 12 MP *2 sec	As Above	None??	None??
Video	16:9	1X – Wide Angle 3X – Med TelePhoto	4K 4K	3840x2160 3840x2160	1-3X 1-3X (3-9X)	Spot, Circle, Track
Hyperlapse	Photo - 4:3 Video - 16:9	1X , 3X	12 MP *2 sec 4K	4032x3024 3840x2160	None??	Free (Spot), Circle
Panorama	4:3	1X All Panos 3X Spherical only	12 MP 12 MP	4032x3024 Ea Pic 4032x3024 Ea Pic	None	None

Why does that Matter?

- Knowing what we are looking at on a controller versus the picture being taken will increase our product efficiency
 - We won't have as many redos
- Applications:
 - For Photogrammetry and Mapping the 4:3 Aspect Ratio provides larger overlap in the direction of travel
 - For Estate Photos and Panoramas, the 4:3 provide additional vertical coverage if the application calls for it
 - Tall homes, and Panos that require vertical photographs
 - For Event Photography / Videography such as Weddings, Graduations, Public Gatherings the 16:9 ratios line up for both lenses and may prove easier in the editing process and final compilation of a product
 - Probably some other reasons, please let us know what you think

A Change in Perspective Can Make
a World of Difference

DJI Aerial (Drone) Photography



Thanks for Watching

pdf of presentation available on my website
Link to the presentation is in the Description

Have a great Day!

Edward@SouthBayAerialPhotography.com



South Bay Aerial Photography.com

