

CAMERAS
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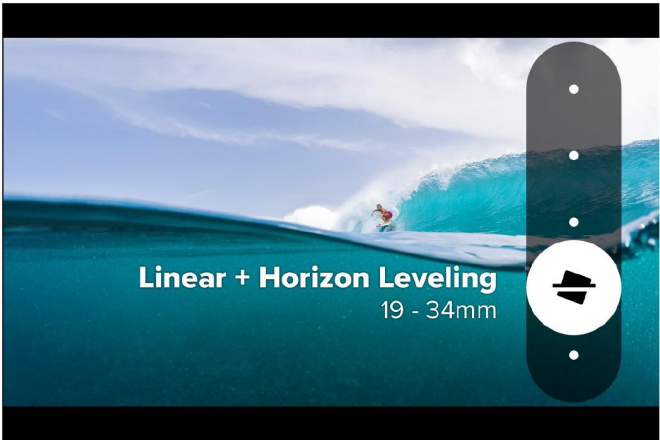
HERO9 Black - In-Camera Horizon Leveling

May 4, 2021

HERO9 Black has a new feature called in-camera Horizon Leveling. Available in Video and TimeWarp modes, Horizon Leveling uses a Digital Lens called Linear + Horizon Leveling to achieve a level horizon up to approximately 45 degrees.

To enable Horizon Leveling

1. Go into your video Preset and select Lens
2. You will see a slider to the right where you can select Linear + Horizon Leveling
3. To achieve maximum Horizon Leveling performance, be sure to enable Boost Hypersmooth



The charts below detail the angle limits when Linear + Horizon Leveling is enabled.

** All limits listed below are approximate

4:3 Aspect Ratios

Resolution	Frame Rate	Lens angle limit with Linear + Horizon Leveling with HyperSmooth ON	Lens angle limit with Linear + Horizon Leveling with HyperSmooth Boost
4k 4:3	30/25	32°	45°
4k 4:3	24	32°	45°
2.7k 4:3	60/50	32°	45°
1440p	120/100	32°	45°
1440p	60/50	32°	45°
1440p	30/25	32°	45°
1440p	24	32°	45°

16:9 Aspect Ratios

Resolution	Frame Rate	Lens angle limit with Linear + Horizon Leveling with HyperSmooth High/ON	FOV in this configuration	Lens angle limit with Linear + Horizon Leveling with HyperSmooth Boost	FOV in this configuration
5k	30/25	28°	75°	33°	68°
5k	24	28°	75°	33°	68°
4k	60/50	28°	75°	33°	68°
4k	30/25	40°	87°	45°	75°
4k	24	40°	87°	45°	75°
2.7k	120/100	28°	75°	33°	68°
2.7k	60/50	40°	87°	45°	75°
1080p	240/200	28°	75°	33°	68°
1080p	120/100	28°	75°	33°	68°
1080p	60/50	40°	87°	45°	75°
1080p	30/25	40°	87°	45°	75°
1080p	24	40°	87°	45°	75°

TimeWarp

Resolution	Frame Rate	FOV	Angle Limit
4k 4:3	30/25	87°	32°
1440p	60/50	87°	32°
4k	30/25	87°	40°
1080p	60/50	87°	40°

HERO9 BLACK
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