

EXHIBIT 14

Exemplary Infringement Claim Chart for U.S. Patent No. 10,015,413

This exemplary claim chart shows how the following Insta360 products and systems (the “’413 Accused Products”) directly and indirectly infringe the independent claims of U.S. Patent No. 10,015,413 (“the ’413 patent”):

’413 Accused Products: Insta360 “One X,” “One R,” “One R 1-inch,” “One X2,” “One RS,” “One RS 1-inch 360,” “X3,” “Go 3,” “Ace,” and “Ace Pro.”

As shown in the exemplary claim chart, the Insta360 X3 meets each and every limitation of the ’413 Patent, literally or under the doctrine of equivalents. The other ’413 Accused Products infringe the ’413 Patent in substantially the same way and for substantially the same reasons.

Insta360 directly infringes the independent claims of the ’413 Patent under 35 U.S.C. § 271(a) by selling and offering for sale the ’413 Accused Products in the United States and importing those Systems into the United States. Insta360 further directly infringes the independent claims of the ’413 Patent by testing and using the claimed systems and performing the claimed methods in the United States. Insta360 further indirectly infringes the independent claims of the ’413 Patent under 35 U.S.C. § 271(b) and 35 U.S.C. § 271(c) by inducing and contributing to the infringement of its customers and users of the ’413 Accused Products.

This claim chart is exemplary in nature and based only on public information currently available. GoPro reserves the right to supplement this claim chart with additional information as necessary. GoPro reserves all rights to update and elaborate on its positions and to proffer additional and alternative theories.

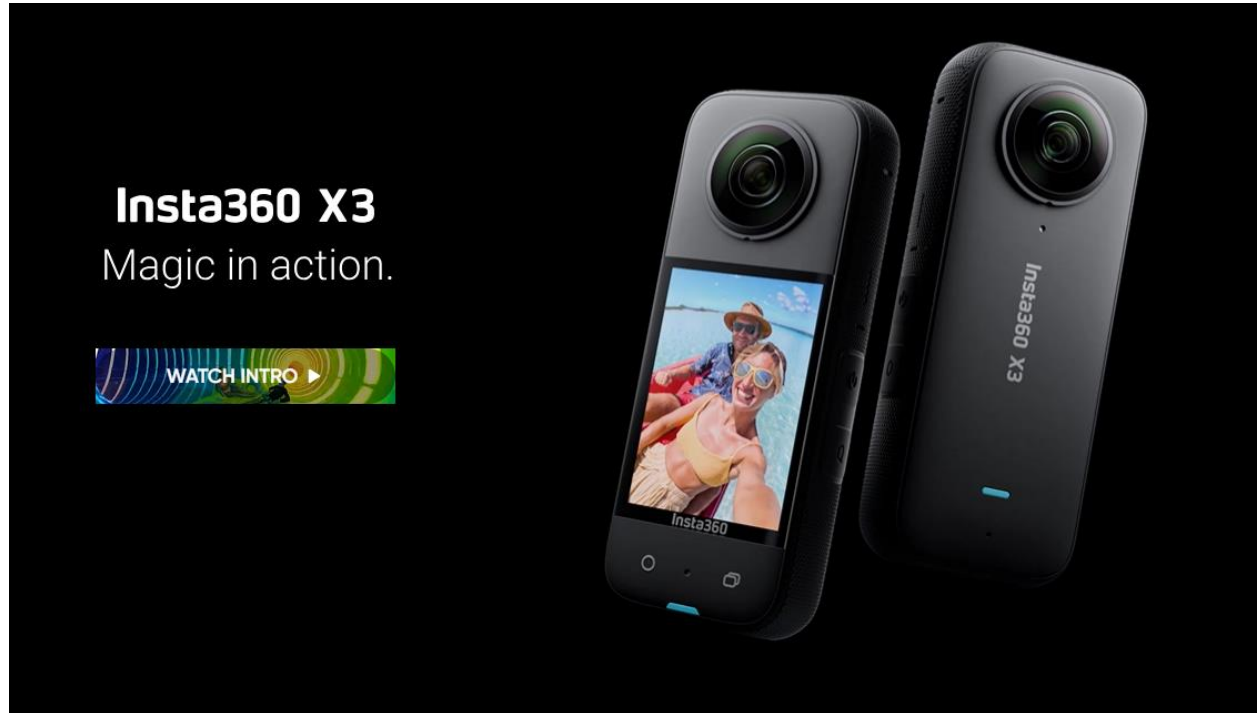
Claim 1

1[pre] An image capture apparatus, comprising:

To the extent the preamble is limiting, the '413 Accused Products include an image capture apparatus, comprising:

X3

See, e.g.:



<https://www.insta360.com/product/insta360-x3>

1[a] an image sensor configured to capture an input image having a source aspect ratio, the input image including pixels located at input positions defined along a first axis and a second axis, the first axis perpendicular to the second axis;

The '413 Accused Products comprise an image sensor configured to capture an input image having a source aspect ratio, the input image including pixels located at input positions defined along a first axis and a second axis, the first axis perpendicular to the second axis:

See, e.g.:

The X3, exemplary of the '413 Accused Products, includes a Sony CMOS IMX586 Image Sensor with a 4:3 capture aspect ratio (8000 pixel x 6000 pixel).

X3

Model name		IMX586	
Number of effective pixels		8000 (H) × 6000 (V)48 megapixels*2	
Image size		Diagonal 8.000mm(Type 1/2)	
Unit cell size		0.8μm(H)×0.8μm(V)	
Frame rate	Full	30fps	
	Movie	4K(4096×2160)	90fps
		1080p	240fps
		720p	480fps(w/crop)
Sensitivity (Standard value: f5.6)		Approx. 133LSB	
Sensor saturation signal level (minimum value)		Approx. 4500e	

<https://www.sony.com/en/SonyInfo/News/Press/201807/18-060E/>

Design

So let's check out how it works. The two lenses each feature a half-inch SONY IMX586 sensor, which used to be popular on camera phones. Now the dual-lens setup brings a new life to the classic sensor.



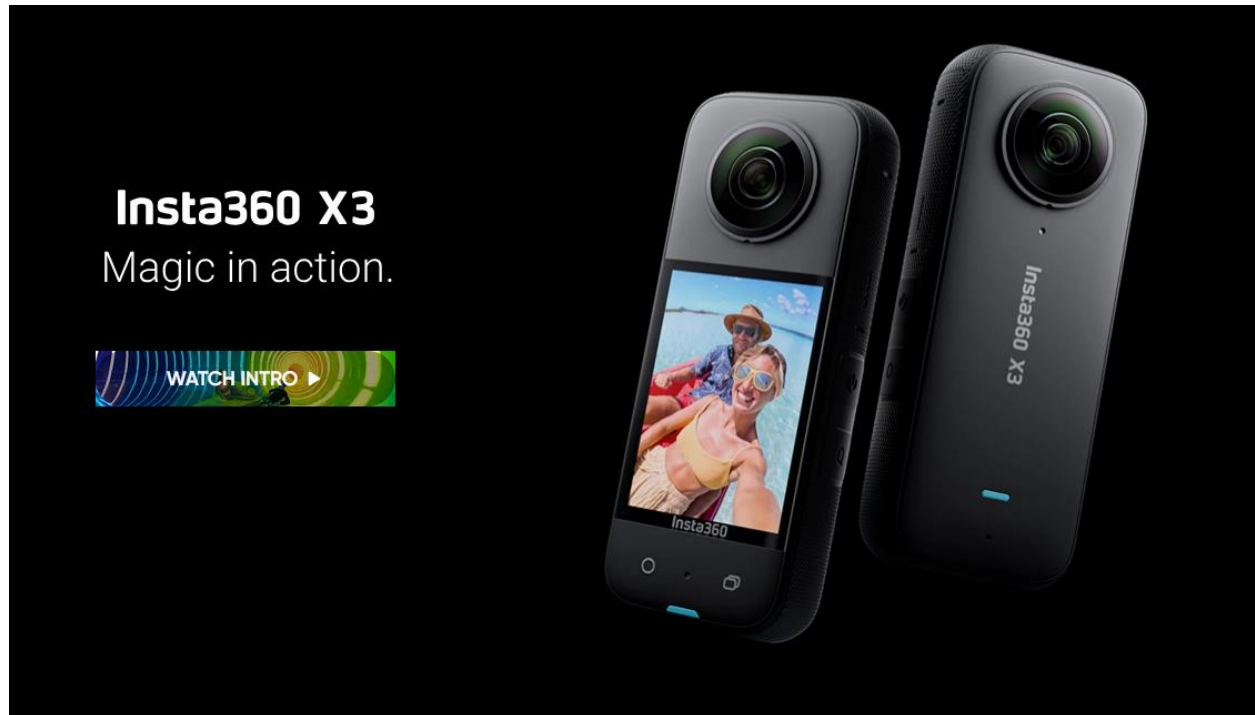
<https://www.gizmochina.com/2023/03/10/insta360-x3-360-action-camera-review/#Design>

1[b] a display coupled to one or more physical processors; and

The '413 Accused Products comprise a display coupled to one or more physical processors; and

See, e.g.:

X3



<https://www.insta360.com/product/insta360-x3>

1[c] the one or more physical processors configured by machine-readable instructions to:

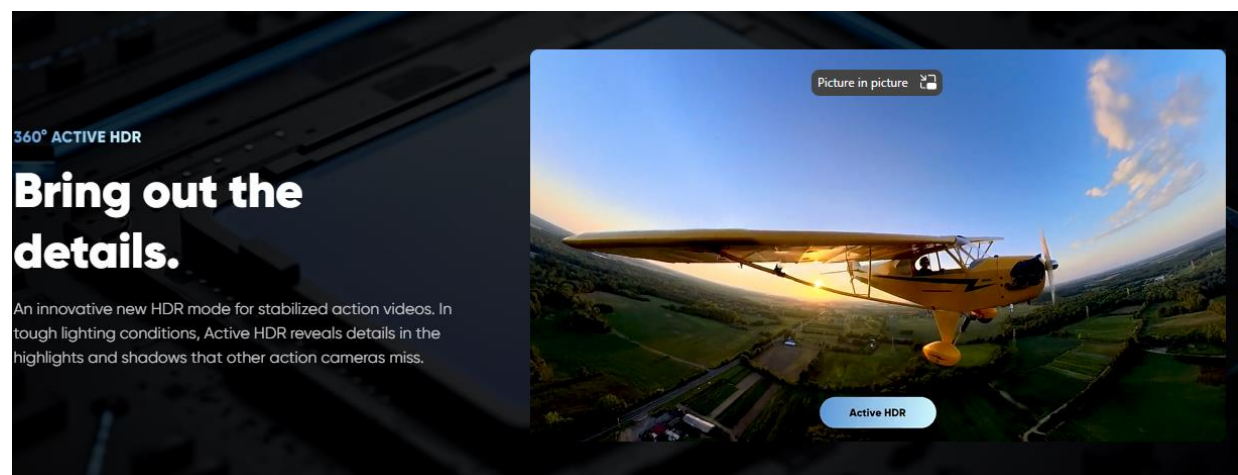
The '413 Accused Products comprise the one or more physical processors configured by machine-readable instructions to:

See, e.g.

X3

Insta360 X3		Features	Accessories	Specs	BUY NOW
Wi-Fi	2.4GHz, 5GHz 802.11a/b/g/n/ac				
USB	Type-C * Note: This version only supports wired connection to Android devices (via Micro-USB or Type-C). It does not support wired connection to iOS devices. Full wireless support is available for both iOS and Android.				
MicroSD Card	UHS-I V30 speed class, exFAT format SD cards with a max storage of 1TB are recommended.				

<https://www.insta360.com/product/insta360-x3>



<https://www.insta360.com/product/insta360-x3>

1[d] obtain the input image:

The '413 Accused Products obtain the input image;

See, e.g.:

X3

The X3, exemplary of the '413 Accused Products, saves raw videos and images captured in “circular/spherical” format

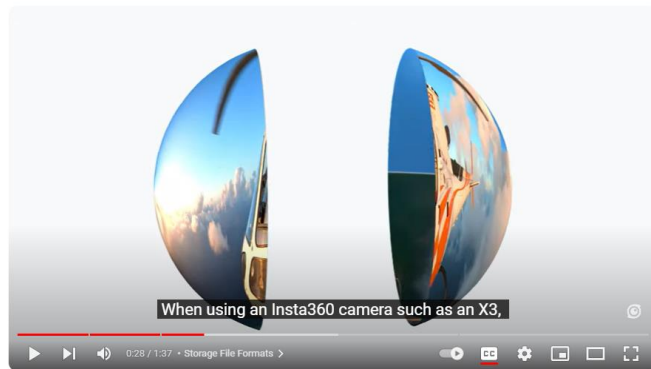
Q4 What is the file format of the videos taken by X3?

Single Lens: MP4

360: INSV

<https://onlinemanual.insta360.com/x3/en-us/faq/feature/shootingmode>

An INSV file is a format used by Insta360 cameras to store spherical videos.



Insta360 - 360° Video Files: INSV vs. LRV



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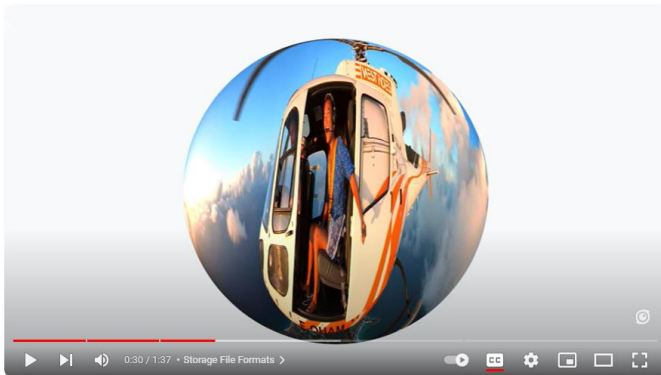
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https://www.youtube.com/watch?v=PwJL_IMAoQo

The X3, exemplary of the '413 Accused Products, implements a feature called “FreeFrame” allowing the user to export final videos in any desired aspect ratio.

FreeFrame

Shoot in a versatile 4:3 frame and retain the freedom to export in any aspect ratio. Perfect if you're planning to post on socials, but you haven't made up your mind exactly where. You can still fine-tune FOV, stabilization, and Horizon Lock during post-production.

<https://www.insta360.com/blog/tips/insta360-ace-pro-best-settings-guide.html>

Feature	Insta360 Ace Pro Premium Image Quality	Insta360 X3 360° Action Camera	Insta360 GO 3 Tiny Vlogging Camera
Sensor	1/1.3" Sensor	Dual 1/2" Sensors	1/2.3" Sensor
360° Video	-	5.7K	-
Wide Angle Video Resolution	8K 4K Active HDR	4K	2.7K
Photo Resolution	48MP	72MP(11968x5984) 18MP(5952x2976)	7MP
Weight (Camera + Battery)	180g (6.4oz)	180g (6.4oz)	GO 3: 35.5g (1.25oz) Action Pod: 96.3g (3.40oz)
Max. Video Bitrate	170Mbps	120Mbps	80Mbps
Touchscreen	✓ (2.4" Flip Touchscreen)	✓ (2.29")	✓ (2.2" Flip Touchscreen)
Rugged + Waterproof	33ft (10m)	33ft (10m)	GO 3: 16ft (5m) Action Pod: IPX4 Splashproof
Invisible Selfie Stick	✓ (Processed in Insta360 app)	✓	-
Active HDR	✓	✓	-
PureVideo	✓	-	-
FreeFrame Video	4K:4032x3024@60/50/ 48/30/25/24fps	Aspect Ratio can be adjusted in the Insta360 app or Studio.	1440p:2560x1440@24/ 25/30/50fps 1080p:1920x1080@24/ 25/30/50fps

<https://www.insta360.com/blog/tips/insta360-ace-pro-x3-go-3-which-action-camera.html>

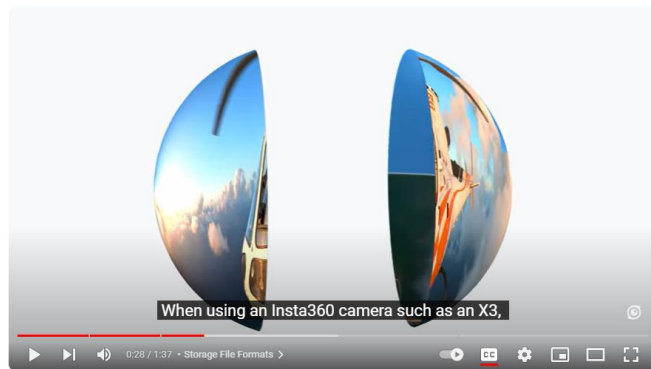
1[e] determine a portion within the input image, the portion including a subset of the pixels:

The '413 Accused Products determine a portion within the input image, the portion including a subset of the pixels; and

See, e.g.:

X3

The X3, exemplary of the '413 Accused Products, determines a subset of the pixels as a portion within the input image. As discussed below, as part of selecting a frame, the Insta360 products determine a portion of the input image including a subset of the pixels.



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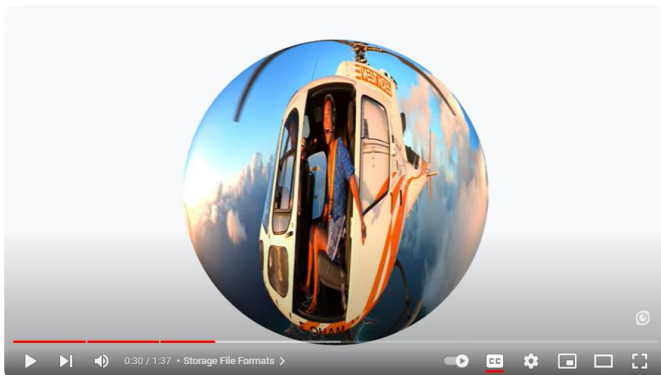
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https://www.youtube.com/watch?v=PwJL_IMAoQo

REFRAMING

Shoot first, frame later.

Simply mount up, hit record and choose the best angles afterwards, using easy reframing tools in the AI-powered Insta360 app. Share to any social media platform in a tap without losing any quality.



<https://www.insta360.com/product/insta360-x3>

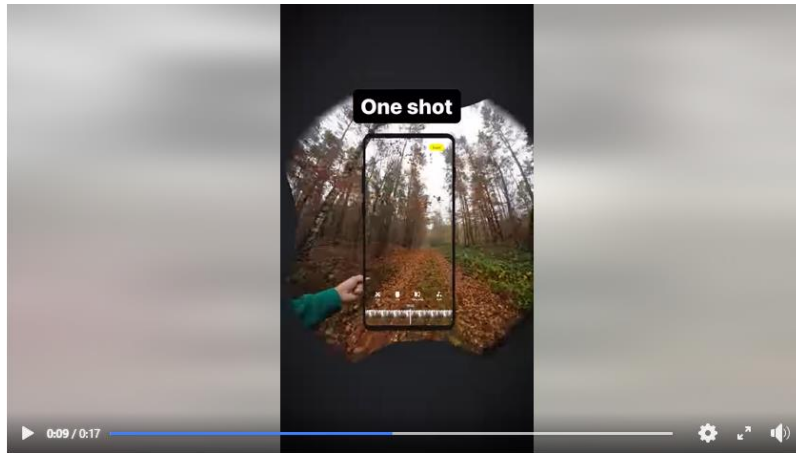
ME MODE

See yourself at 60fps.

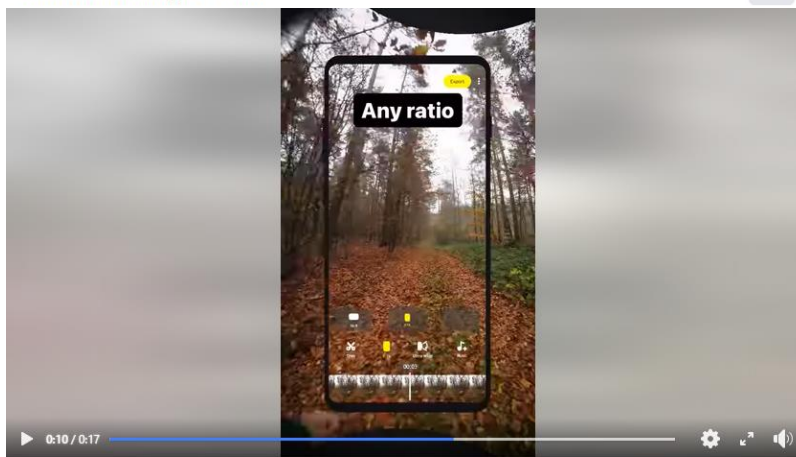
Try the all-new Me mode which fixes the frame to focus only on you. Capture yourself without the selfie stick at 60fps for epic slow mo. No need to reframe, just keep yourself in frame!



<https://www.insta360.com/product/insta360-x3>



Insta360: Framing Freedom



Insta360: Framing Freedom

<https://www.facebook.com/Insta360/videos/insta360-framing-freedom/689863049978202/>

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Rugged + Waterproof	33ft (10m)	33ft (10m)	GO 3: 16ft (5m) Action Pod: IPX4 Splashproof
Invisible Selfie Stick	 (Processed in Insta360 app)		-
Active HDR			-
PureVideo		-	-
FreeFrame Video	4K:4032x3024@60/50/ 48/30/25/24fps	Aspect Ratio can be adjusted in the Insta360 app or Studio.	1440p:2560x1440@24/ 25/30/50fps 1080p:1920x1080@24/ 25/30/50fps

<https://www.insta360.com/blog/tips/insta360-ace-pro-x3-go-3-which-action-camera.html>

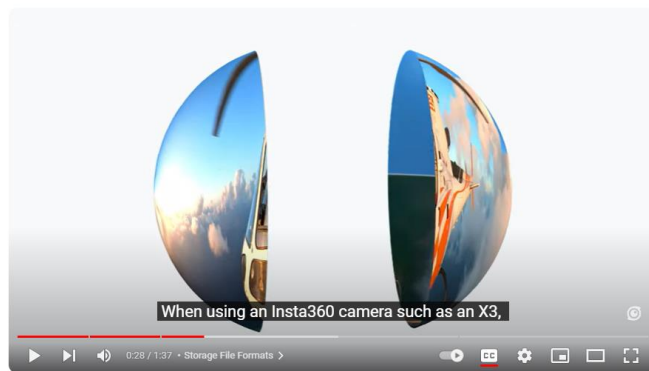
1[f] apply a transformation to the input image to generate an output image, the output image having a target aspect ratio different than the source aspect ratio, the output image including the pixels located at output positions defined along the first axis and the second axis, wherein:

The '413 Accused Products apply a transformation to the input image to generate an output image, the output image having a target aspect ratio different than the source aspect ratio, the output image including the pixels located at output positions defined along the first axis and the second axis, wherein:

See, e.g.:

The X3, exemplary of the '413 Accused Products, generates an output image with a different aspect ratio as illustrated below. For example, when shooting in FOV mode, the output image displayed on the device is provided in a 16:9 aspect ratio, but the displayed field of view differs based on the shooting mode. In "Action," mode, for example, the output 16:9 display image comprises more vertical content in the field of view than other modes. Thus "Action" mode involves a selection of pixels in a source aspect ratio that is different from the output 16:9 aspect ratio, and the Insta360 products apply a transformation to the input image to result in the 16:9 image with greater vertical content.

X3



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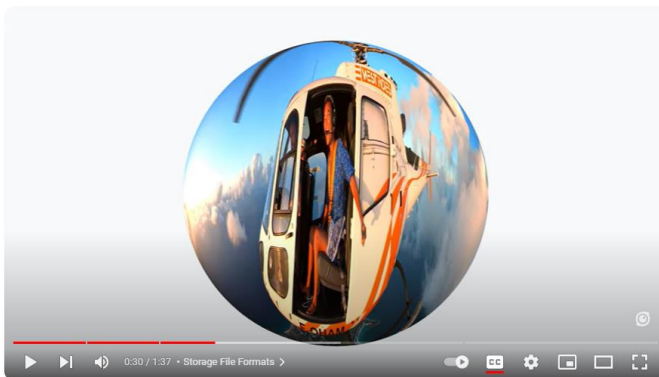
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https://www.youtube.com/watch?v=PwJL_IMAoQo

Q9 What field of views (FOV) does X3 support?

Single Lens Mode (Default FOV): UltraWide, ActionView, Wide, Linear

Single Lens Mode (FOV+): MaxView, UltraWide+, ActionView+, Wide+, Linear+

Me Mode (FOV+): MaxView, UltraWide+, ActionView+ (only in 9:16), Wide+, Linear+

<https://onlinemanual.insta360.com/x3/en-us/faq/feature/shootingmode>

REFRAMING

Shoot first, frame later.

Simply mount up, hit record and choose the best angles afterwards, using easy reframing tools in the AI-powered Insta360 app. Share to any social media platform in a tap without losing any quality.



<https://www.insta360.com/product/insta360-x3>

ME MODE

See yourself at 60fps.

Try the all-new Me mode which fixes the frame to focus only on you. Capture yourself without the selfie stick at 60fps for epic slow mo. No need to reframe, just keep yourself in frame!



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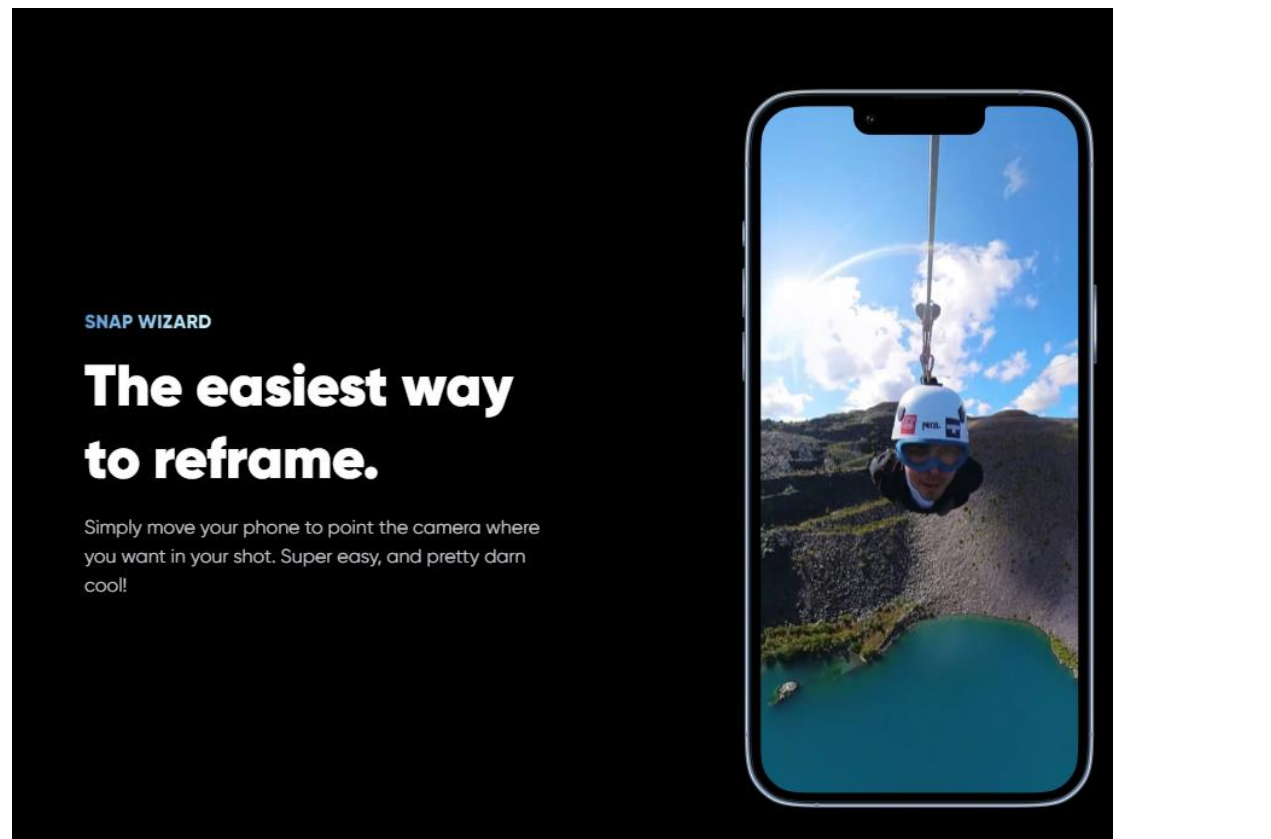
AUTO FRAME

Let AI find the best shots.

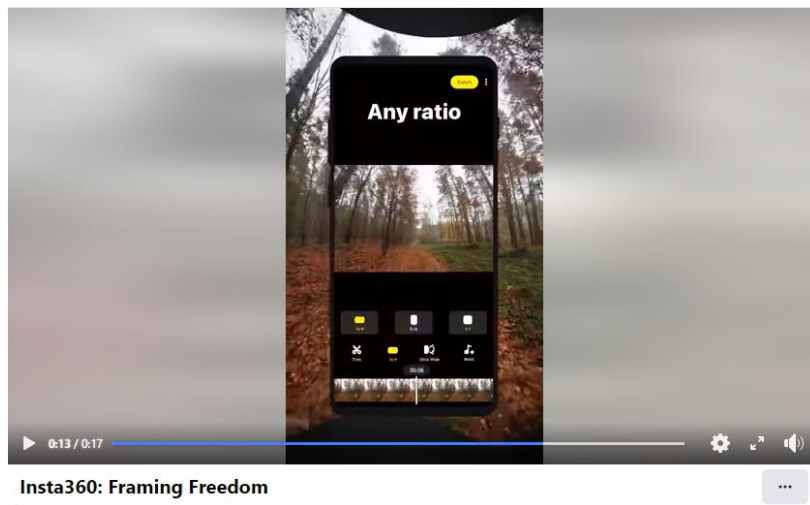
Not sure what to focus on? Auto Frame finds the best parts of your 360° videos for you, giving you a range of reframed clips to choose from.



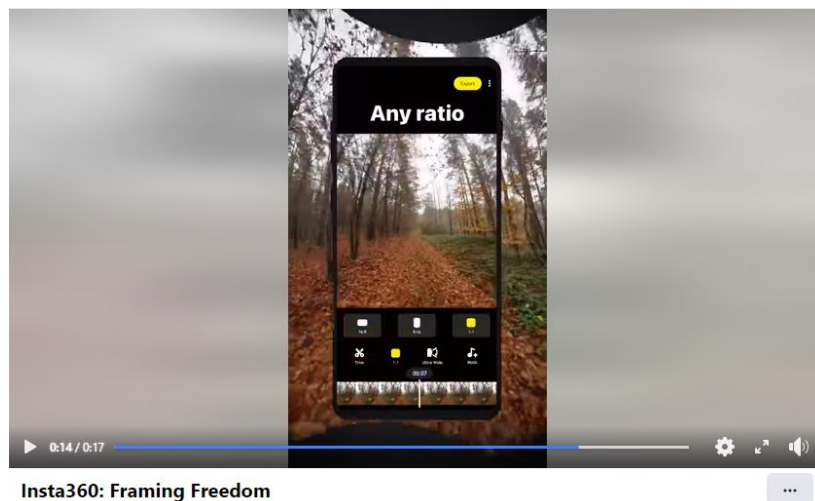
<https://www.insta360.com/product/insta360-x3>



<https://www.insta360.com/product/insta360-x3>



<https://www.facebook.com/Insta360/videos/insta360-framing-freedom/689863049978202/>



<https://www.facebook.com/Insta360/videos/insta360-framing-freedom/689863049978202/>

FreeFrame Mode enables you to modify the aspect ratio of your footage after shooting, so you can edit the same clip for a 9:16 Instagram Reel as a 16:9 YouTube video. Where other action cameras force the user to pre-select the aspect ratio before shooting and only save the content within that aspect ratio, GO 3 saves all the content for sharing in any aspect ratio.

<https://www.newsshooter.com/2023/06/27/insta360-go-3/>

FreeFrame

Shoot in a versatile 4:3 frame and retain the freedom to export in any aspect ratio. Perfect if you're planning to post on socials, but you haven't made up your mind exactly where. You can still fine-tune FOV, stabilization, and Horizon Lock during post-production.

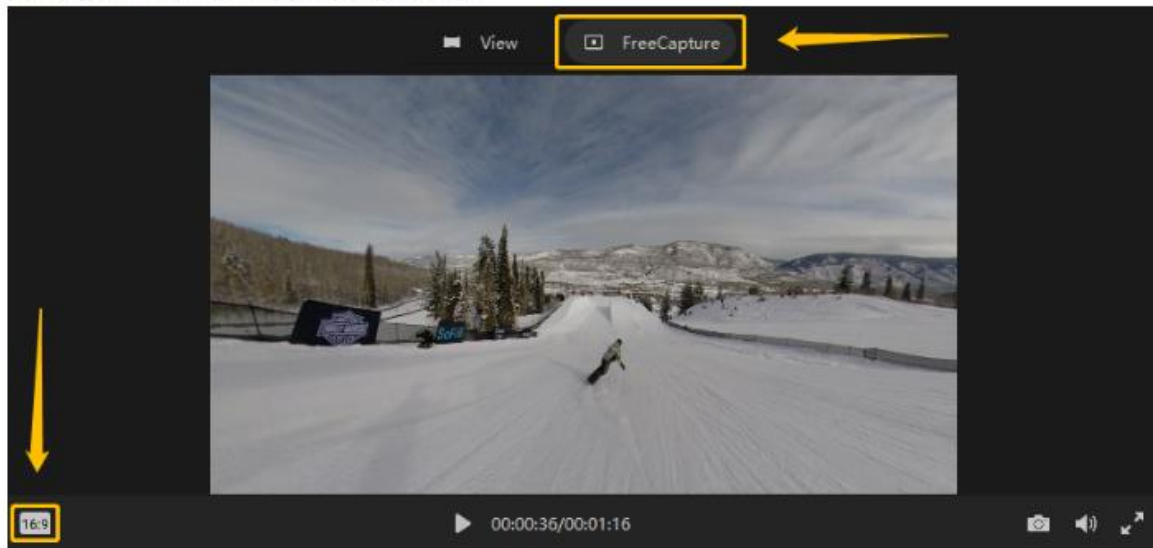
<https://www.insta360.com/blog/tips/insta360-ace-pro-best-settings-guide.html>

Adjust aspect ratio

Enter FreeCapture mode to edit the video.

Click the icon in the bottom left of Play Window to adjust the aspect ratio. The following ratios are supported: 1:1, 9:16, 16:9, 4:3 or 2.35:1.

Note: Bullet Time video is not supported here.



[https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture\).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.](https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.)

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Invisible Selfie Stick	 (Processed in Insta360 app)		-
Active HDR			-
PureVideo		-	-
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<https://www.insta360.com/blog/tips/insta360-ace-pro-x3-go-3-which-action-camera.html>

1[g] the transformation non-uniformly shifts the pixels from the input positions to the output positions based on (1) the input positions along the first axis, and (2) the input positions along the second axis; and

The '413 Accused Products apply the transformation which non-uniformly shifts the pixels from the input positions to the output positions based on (1) the input positions along the first axis, and (2) the input positions along the second axis.

See, e.g.:

The X3, exemplary of the '413 Accused Products, applies a transformation which non-uniformly shifts the pixels. As discussed above, "Action" mode comprises a 16:9 aspect ratio with more vertical content in the field of view than other modes. At the same time, the center of the output image generally preserves linear lines, suggesting less distortion of the image near the center (i.e., the "portion" of the input image). This indicates that the transformation associated with "Action" mode is a "non-uniform" transformation wherein pixels are shifted from their input positions to their output positions based on their locations along the vertical and horizontal axis.

X3



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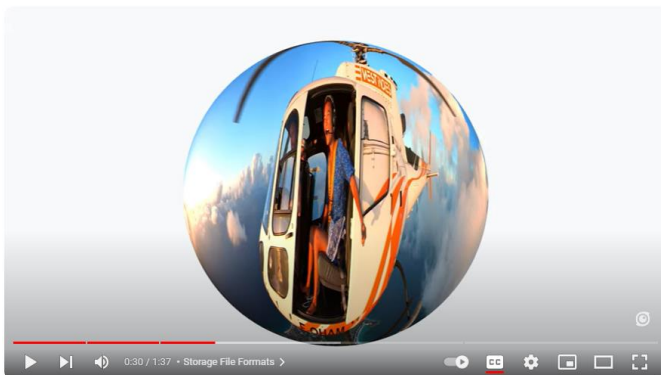
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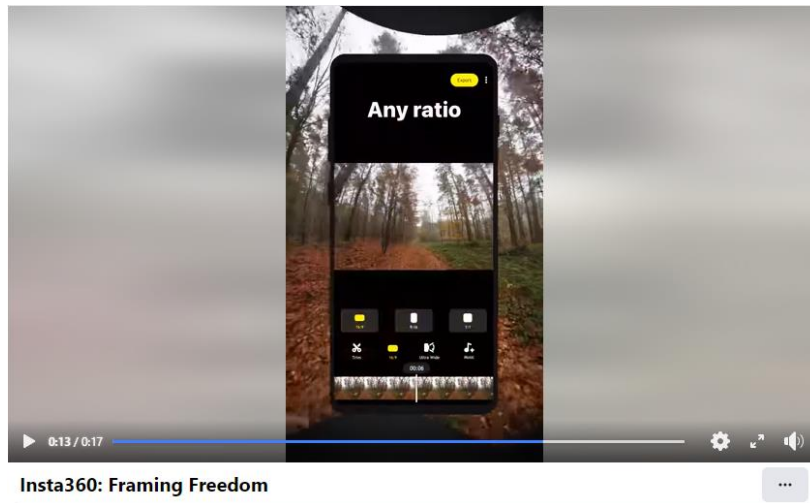
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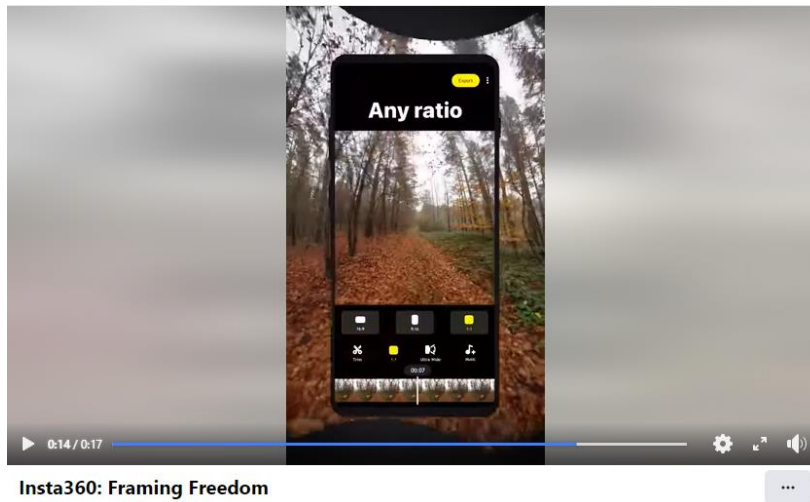
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Me Mode (FOV+): MaxView, UltraWide+, ActionView+ (only in 9:16), Wide+, Linear+

<https://onlinemanual.insta360.com/x3/en-us/faq/feature/shootingmode>

FreeFrame Mode enables you to modify the aspect ratio of your footage after shooting, so you can edit the same clip for a 9:16 Instagram Reel as a 16:9 YouTube video. Where other action cameras force the user to pre-select the aspect ratio before shooting and only save the content within that aspect ratio, GO 3 saves all the content for sharing in any aspect ratio.

<https://www.newsshooter.com/2023/06/27/insta360-go-3/>

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Shoot in a versatile 4:3 frame and retain the freedom to export in any aspect ratio. Perfect if you're planning to post on socials, but you haven't made up your mind exactly where. You can still fine-tune FOV, stabilization, and Horizon Lock during post-production.

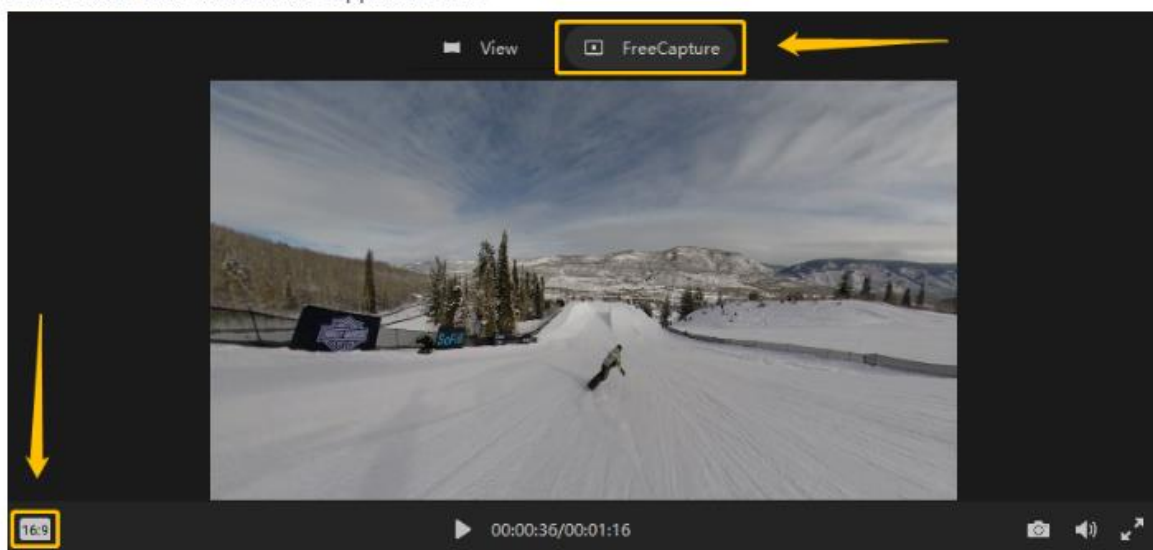
<https://www.insta360.com/blog/tips/insta360-ace-pro-best-settings-guide.html>

Adjust aspect ratio

Enter FreeCapture mode to edit the video.

Click the icon in the bottom left of Play Window to adjust the aspect ratio. The following ratios are supported: 1:1, 9:16, 16:9, 4:3 or 2.35:1.

Note: Bullet Time video is not supported here.



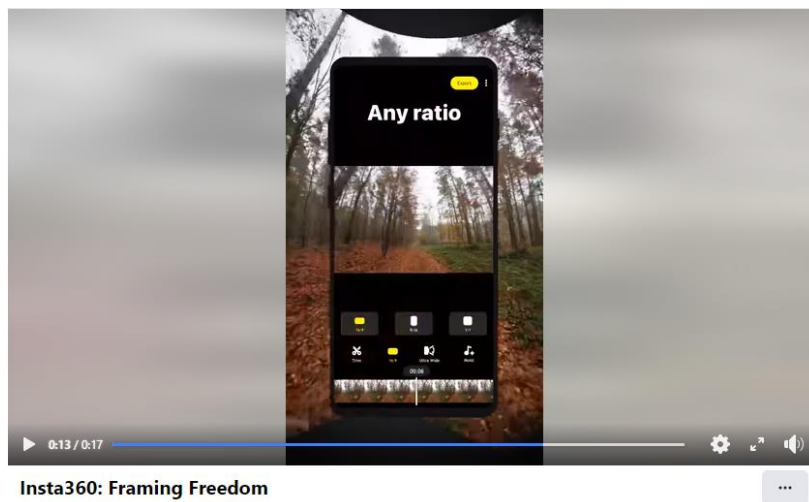
[https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture\).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.](https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.)

1[h] the transformation non-uniformly shifts the pixels such that differences between the input positions and the output positions of the subset of the pixels within the portion are less than differences between the input positions and the output positions of others of the pixels; and

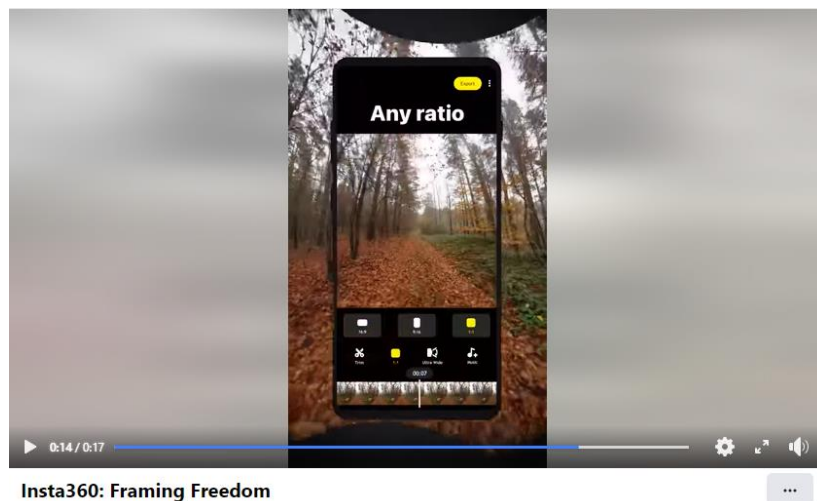
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<https://www.facebook.com/Insta360/videos/insta360-framing-freedom/689863049978202/>



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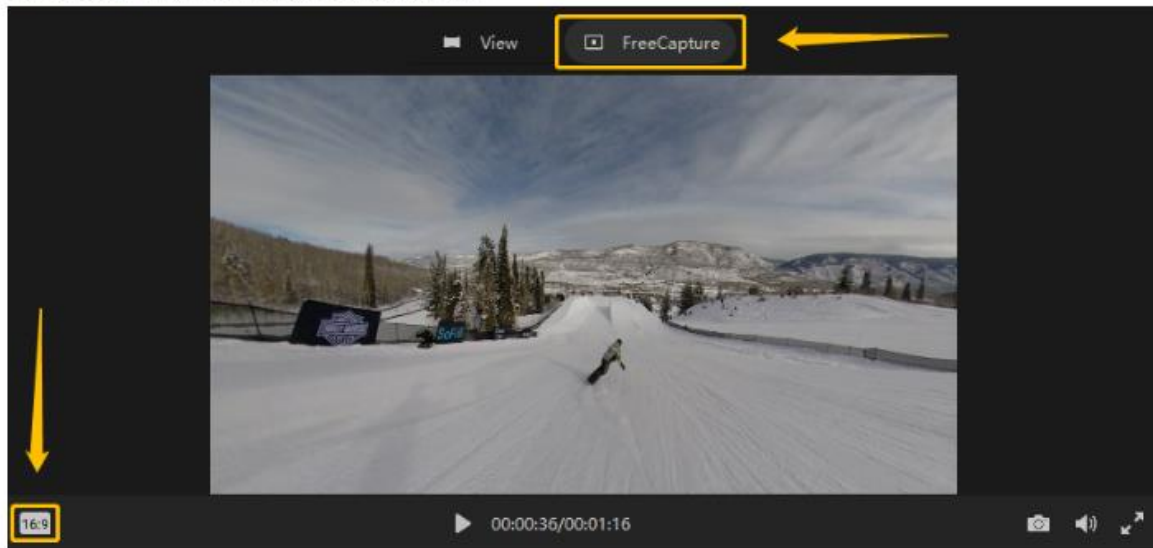
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Note: Bullet Time video is not supported here.



[https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture\).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.](https://onlinemanual.insta360.com/oner/en-us/studio/editing#:~:text=the%20below%20picture).-,Adjust%20aspect%20ratio,%3A3%20or%202.35%3A1.)

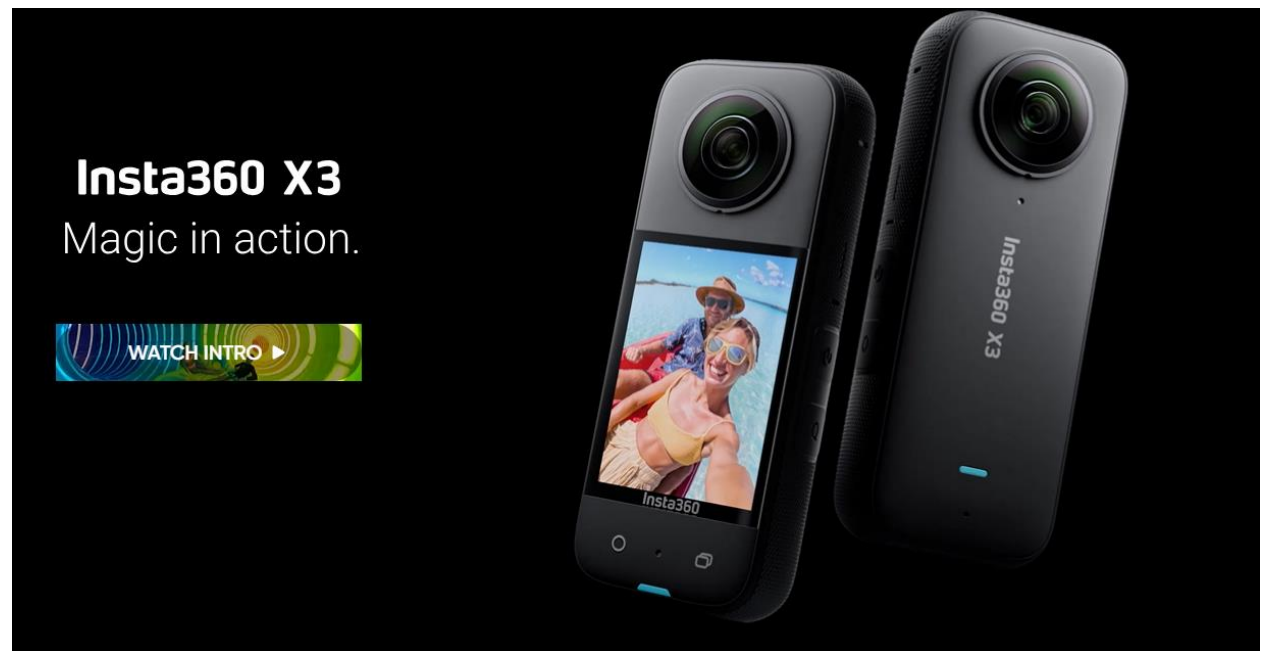
Feature	Insta360 Ace Pro Premium Image Quality	Insta360 X3 360° Action Camera	Insta360 GO 3 Tiny Vlogging Camera
Sensor	1/1.3" Sensor	Dual 1/2" Sensors	1/2.3" Sensor
360° Video	-	5.7K	-
Wide Angle Video Resolution	8K 4K Active HDR	4K	2.7K
Photo Resolution	48MP	72MP(11968x5984) 18MP(5952x2976)	7MP
Weight (Camera + Battery)	180g (6.4oz)	180g (6.4oz)	GO 3: 35.5g (1.25oz) Action Pod: 96.3g (3.40oz)
Max. Video Bitrate	170Mbps	120Mbps	80Mbps
Touchscreen	 (2.4" Flip Touchscreen)	 (2.29")	 (2.2" Flip Touchscreen)
Rugged + Waterproof	33ft (10m)	33ft (10m)	GO 3: 16ft (5m) Action Pod: IPX4 Splashproof
Invisible Selfie Stick	 (Processed in Insta360 app)		-
Active HDR			-
PureVideo		-	-
FreeFrame Video	4K:4032x3024@60/50/ 48/30/25/24fps	Aspect Ratio can be adjusted in the Insta360 app or Studio.	1440p:2560x1440@24/ 25/30/50fps 1080p:1920x1080@24/ 25/30/50fps

<https://www.insta360.com/blog/tips/insta360-ace-pro-x3-go-3-which-action-camera.html>

1[i] present the output image on the display:

The '413 Accused Products present the output image on the display.

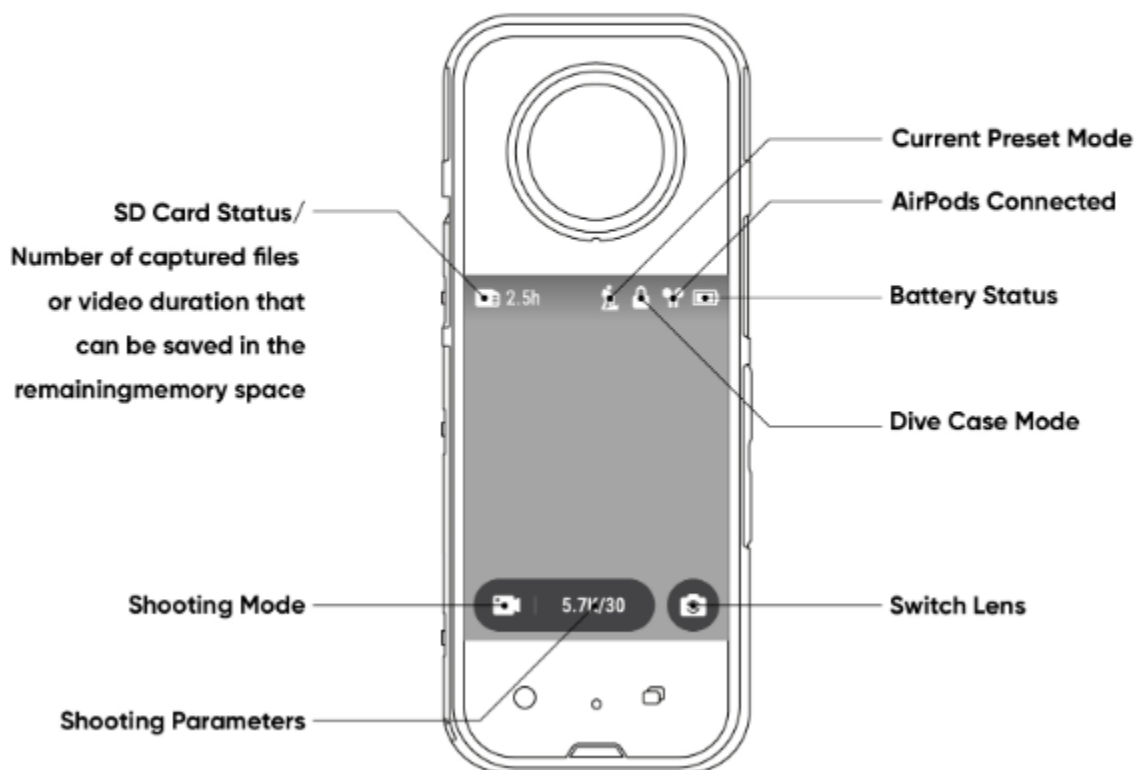
See, e.g.:



<https://www.insta360.com/product/insta360-x3>

<https://www.facebook.com/Insta360/videos/insta360-framing-freedom/689863049978202/>

The touch screen's main display shows the current shooting mode and the information shown below. Parameter settings vary depending on the mode.



<https://onlinemanual.insta360.com/x3/en-us/camera/basicuse/body>

Claim 2

2[pre] A system that converts between aspect ratios, the system comprising:

To the extent the preamble is limiting, the X3, exemplary of the '413 Accused Products, includes a system that converts between aspect ratios, the system comprising.

See, 1[pre].

2[a] one or more physical processors configured by machine-readable instructions to:

The X3, exemplary of the '413 Accused Products, comprises one or more physical processors configured by machine-readable instructions to:

See, 1[c].

2[b] obtain an input image, the input image having a source aspect ratio, the input image including pixels located at input positions defined along a first axis and a second axis, the first axis perpendicular to the second axis;

The X3, exemplary of the '413 Accused Products, obtains an input image, the input image having a source aspect ratio, the input image including pixels located at input positions defined along a first axis and a second axis, the first axis perpendicular to the second axis;

See, 1[a], [d].

2[c] determine a portion within the input image, the portion including a subset of the pixels;

The X3, exemplary of the '413 Accused Products, determines a portion within the input image, the portion including a subset of the pixels;

See, 1[e].

2[d] apply a transformation to the input image to generate an output image, the output image having a target aspect ratio different than the source aspect ratio, the output image including the pixels located at output positions defined along the first axis and the second axis, wherein:

The X3, exemplary of the '413 Accused Products, applies a transformation to the input image to generate an output image, the output image having a target aspect ratio different than the source aspect ratio, the output image including the pixels located at output positions defined along the first axis and the second axis, wherein:

See, 1[f].

2[e] the transformation non-uniformly shifts the pixels from the input positions to the output positions based on (1) the input positions along the first axis, and (2) the input positions along the second axis; and

The X3, exemplary of the '413 Accused Products, applies a transformation that non-uniformly shifts the pixels from the input positions to the output positions based on (1) the input positions along the first axis, and (2) the input positions along the second axis; and

See, 1[g].

2[f] the transformation non-uniformly shifts the pixels such that differences between the input positions and the output positions of the subset of the pixels within the portion are less than differences between the input positions and the output positions of others of the pixels.

The X3, exemplary of the '413 Accused Products, applies a transformation that non-uniformly shifts the pixels such that differences between the input positions and the output positions of the subset of the pixels within the portion are less than differences between the input positions and the output positions of others of the pixels.

See, 1[h].