Prescott Macintosh Users Group

presents

iPhone Cameras

What's to know?

April 9, 2022

Why Use an iPhone?

When good enough

meets

cost, ease of use, flexibility, and portability

Camera Specs

Dual 12MP Wide and Ultra Wide cameras

Wide: f/1.8 26mm aperture

Ultra Wide: f/2.4 13mm aperture and 120° field of view

2x optical zoom

Digital zoom up to 5x

Portrait mode with advanced bokeh and Depth Control

Camera Specs

Portrait Lighting with six effects

(Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)

Optical image stabilization (Wide)

Five-element lens (Ultra Wide); six-element lens (Wide)

True Tone flash with Slow Sync

Panorama (up to 63MP)

Sapphire crystal lens cover

Camera Specs

100% Focus Pixels (Wide)

Night mode (Wide)

Deep Fusion (Wide)

Next-generation Smart HDR for photos

Wide color capture for photos and Live Photos

Advanced red-eye correction

Camera Specs

Auto image stabilization

Burst mode

Photo geotagging

Image formats captured: HEIF and JPEG

Video Recording

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps

1080p HD video recording at 25 fps, 30 fps, or 60 fps

720p HD video recording at 30 fps

Extended dynamic range for video up to 60 fps

Optical image stabilization for video (Wide)

2x optical zoom out

Video Recording

Digital zoom up to 3x

Audio zoom

True Tone flash

QuickTake video

Slo-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization

Video Recording

Cinematic video stabilization (4K, 1080p, and 720p)

Continuous autofocus video

Take 8MP still photos while recording 4K video

Playback zoom

Video formats recorded: HEVC and H.264

Stereo recording

TrueDepth Camera

12MP camera

f/2.2 aperture

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stag Mono, High-Key Mono)

Animoji and Memoji

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps

TrueDepth Camera

1080p HD video recording at 25 fps, 30 fps, or 60 fps

Slo-mo video support for 1080p at 120 fps

Next-generation Smart HDR for photos

Extended dynamic range for video at 30 fps

Cinematic video stabilization (4K, 1080p, and 720p)

QuickTake video

TrueDepth Camera

Wide color capture for photos and Live Photos

Retina Flash

Auto image stabilization

Burst mode

What's NEW

Wide camera f/1.6 26mm
Seven element wide lens
f/2.4 65mm telephoto lens (Pro & Pro Max)
Telephoto lens doesn't support Night Mode
Night mode for all lenses
Smart HDR 3

What's NEW

HDR video recording with Dolby Vision

Deep Fusion for all lenses

Night Mode time lapse

Lens correction (ultra-wide)

LIDAR in Pro & Pro Max

Brighter True Tone flash

What's NEW

Time lapse with video stabilization

What's NEW for All Models

Cinematic Focus Mode
Sensor-shift optical image stabilization (Wide)
Photographic Styles
Smart HDR 4

What's NEW
Pro & Pro Max

New 77mm telephoto camera with 3x optical zoom

Increased night mode performance

Shoot and edit ProRes video

Improved Augmented Reality performance

iPhone 11 CAMERA

Dual 12MP Wide and Ultra Wide cameras

Wide: f/1.8 aperture

Ultra Wide: f/2.4 aperture and 120° field of view

2x optical zoom out

Digital zoom up to 5x

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono) Optical image stabilization (Wide)

Six-element lens (Wide); five-element lens (Litra Wide).

True Tone flash with Slow Sync

Panorama (up to 83MP)

Sapphire crystal lens cover

100% Focus Pixels (Wide)

Night mode (Wide)

Deep Fusion (Wide)

Next-generation Smart HDB for photos

Wide color capture for photos and Live Photos

Advanced red-eye correction

Auto image stabilization

Burst mode

Photo geotagging

Image formats captured: HEIF and JPEG

VIDEO RECORDING

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps. 1080p HD video recording at 25 fps, 30 fps, or 80 fps

720p HD video recording at 30 fps

Extended dynamic range for video up to 60 fps.

Optical image stabilization for video (Wide)

2x optical zoom out

Digital zoom up to 3x

Audio zoom

True Tone flash

QuickTake video

Sio-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization

Cinematic video stabilization (4K, 1080p. and 720p)

Continuous autofocus video

Take 8MP still photos while recording 4K video

Playback zoom

Video formats recorded: HEVC and H.264

Stereo recording

TRUE DEPTH CAMERA

12MP camera.

f/2.2 aperture

Portrait mode with advanced bokeh and Depth Control Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono)

Animoli and Memoli

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps

1080p HD video recording at 25 fps, 30 fps, or 60 fps.

Slo-mo video support for 1080p at 120 fps Next-generation Smart HDR for photos

Extended dynamic range for video at 80 fps

Cinematic video stabilization (4K, 1080p, and 720p)

QuickTake video

Wide color capture for photos and Live Photos

Retina Flash

Auto image stabilization

Burst mode

iPhone 12 CAMERA

Dual 12MP camera system: Ultra Wide and Wide cameras

Ultra Wide: f/2.4 aperture and 120° field of view

Wide: #/1.6 aparture 2x optical zoom out

Digital zoom up to 5x

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono) Optical image stabilization (Wide)

Five-element lens (Ultra Wide); seven-element lens (Wide).

Brighter True Tone flash with Slow Sync.

Panorama (up to 63MP) Sapphire crystal lens cover

100% Focus Pixels (Wide)

Night mode

Deep Fusion Smart HDR 3

Wide color capture for photos and Live Photos

Lens correction (Ultra Wide)

Advanced red-eye correction

Auto image stabilization

Burst mode

Photo geotagging

Image formats captured: HEIF and JPEG.

VIDEO RECORDING

HDR video recording with Dolby Vision up to 4K at 30 fps.

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps 1080p HD video recording at 25 fps, 30 fps, or 60 fps.

720p HD video recording at 30 fps.

Optical image stabilization for video (Wide)

2x optical zoom out

Digital zoom up to Sx

Audio zoom

True Tone flash QuickTake video

Sio-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization

Night mode Time-lapse

Cinematic video stabilization (4K, 1080p, and 720p)

Continuous autofocus video

Take 8MP still photos while recording 4K video

Playback zoom

Video formats recorded: HEVC and H.264

Stereo recording

TRUE DEPTH CAMERA

12MP camera.

f/2.2 aperture

Portrait mode with advanced bokeh and Depth Control Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono)

Animoli and Memoli

Night mode

Deep Fusion

Smart HDR 3

HDR video recording with Dolby Vision up to 4K at 30 fps. 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps. 1080p HD video recording at 25 fps, 30 fps, or 60 fps.

Slo-mo video support for 1080p at 120 fps

Time-lapse video with stabilization

Night mode Time-lapse

Cinematic video stabilization (4K, 1080p, and 720p)

QuickTake video

Wide color capture for photos and Live Photos

Lens correction

Retina Flash Auto image stabilization

Burst mode

iPhone 13l CAMERA

Dual 12MP camera system: Wide and Ultra Wide cameras

Wide: //1.6 aperture

Ultra Wide: f/2.4 aperture and 120" field of view

2x optical zoom out

Digital zoom up to 5x

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono)

Sensor-shift optical image stabilization (Wide)

Seven-element lens (Wide); five-element lens (Ultra Wide)

True Tone flash with Slow Sync

Panorama (up to 63MP)

Sapphire crystal lens cover 100% Focus Pixels (Wide)

Night mode

Deep Fusion

Smart HDR 4

Photographic Styles

Wide color capture for photos and Live Photos

Lens correction (Ultra Wide)

Advanced red-eye correction

Auto image stabilization Burst mode

Photo geotagging

Image formats captured: HEIF and JPEG.

VIDEO RECORDING

Cinematic mode for recording videos with shallow depth of field (in 1080p at 30 fps)

HDR video recording with Dolby Vision up to 4K at 80 fps

4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps. 1080p HD video recording at 25 fps, 30 fps, or 60 fps

720p HD video recording at 30 fps.

Sensor-shift optical image stabilization for video (Wide).

2x optical zoom out Digital zoom up to 3x

Audio zoom

True Tone flash

QuickTake video

Slo-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization Night mode Time-lapse

Cinematic video stabilization (4K, 1080p, and 720p)

Continuous autofocus video Take 8MP still photos while recording 4K video.

Playback zoom

Video formats recorded: HEVC and H.264 Stereo recording

TRUE DEPTH CAMERA

12MP camera

1/2.2 aperture

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour,

Stage, Stage Mono, High-Key Mono)

Animoli and Memoli Night mode:

Deep Fusion

Smart HDR 4 Photographic Styles

Cinematic mode for recording videos with shallow depth of field

(in 1080p at 30 fps).

HDR video recording with Dolby Vision up to 4K at 60 fps 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps.

1080p HD video recording at 25 fps, 30 fps, or 60 fps.

Slo-mo video support for 1080p at 120 fps Time-lapse video with stabilization

Night mode Time-lapse

Cinematic video stabilization (4K, 1080p, and 720p). QuickTake video

Wide color capture for photos and Live Photos Lens correction

Retine Flash

Auto image stabilization

Burst mode

iPhone 14?

No chunky camera bump

Augmented Reality headsets

48MP wide rear camera (Pro & Pro Max)

iPhone Photography

Camera Apps

DSLR Camera

ProCamera

Camera+

RAW+

iPhone Photography

Tips & Techniques

One-finger swipe left
Take pics with volume control
Adjust focus by tapping screen
Panorama mode for wide angle photos
Shoot wide, crop in
Use Flash for objects closer than 10 feet

iPhone Photography

Tips & Techniques

Use HDR for better contrast

Night shots

Depth of field

Aspect Ratio

Camera apps