

# Recommended Settings

# Nikon D850

PLAYBACK MENU	
Delete	<i>Selected</i>
Playback folder	<i>All</i>
Hide image	
Playback display options	✓✓✓✓✓
Copy images(s)	
Image review	<i>On</i>
After delete	<i>Show next</i>
After burst, show	<i>Last image in burst</i>
Auto image rotation	<i>On</i>
Rotate tall	<i>Off</i>
Slide show	
Start	
Image type	<i>Still image and movies</i>
Frame interval	<i>2s</i>
Select to send to smart device	
PHOTO SHOOTING MENU	
Photo shooting menu bank	<i>A</i>
Extended photo menu banks	<i>OFF</i>
Storage folder	
Select folder by number	
Select folder from list	
File Naming	<i>DSC</i>
Primary slot selection	<i>XQD</i>
Secondary slot function	<i>Backup Overflow</i>
Flash control	<i>TTL</i>
Flash control mode(built-in)	
Wireless flash options	
Group flash options	
Radio remote flash info	
Image area	
Choose image area	<i>FX</i>
Auto DX crop	<i>ON</i>
Viewfinder mask display	<i>OFF</i>
Image quality	<i>RAW JPEG fine★</i>
Image size	<i>Large</i>
JPEG/TIFF	
NEF (RAW)	
NEF (RAW) recording	
NEF (RAW) compression	<i>ossless comp.</i>
NEF (RAW) bit depth	<i>12-bit</i>
ISO sensitivity settings	
ISO sensitivity	<i>100</i>
Auto ISO sensitivity control	<i>OFF</i>
Maximum sensitivity	<i>12800</i>
Maximum sensitivity with flash	<i>6400</i>
Minimum shutter speed	<i>Auto</i>
Auto Min. SS	<i>Slower (Middle)</i>
White balance	<i>AUTO</i>
Set Picture Control	<i>Standard</i>
Manage Picture Control	
Save/edit	
Rename	
Delete	
Load/save	
Color space	<i>Adobe RGB sRGB</i>
Active D-Lighting	<i>OFF Normal</i>
Long exposure NR	<i>OFF</i>
High ISO NR	<i>OFF Normal</i>
Vignette control	<i>OFF Normal</i>
Auto distortion control	<i>ON</i>

PHOTO SHOOTING MENU (cont.)	
Flicker reduction	
Flicker reduction setting	<i>OFF ON</i>
Flicker reduction indicator	<i>ON OFF</i>
Auto bracketing set	<i>AE</i>
Multiple exposure	<i>OFF</i>
Multiple exposure mode	<i>OFF</i>
Number of shots	
Overlay mode	<i>ADD AVG</i>
Keep all exposures	<i>ON</i>
Select first exposure (NEF)	
HDR (high dynamic range)	
HDR mode	<i>OFF</i>
Exposure differential	<i>3EV</i>
Smoothing	<i>NORM</i>
Interval timer shooting	
Start	
Choose start day/time	
Interval	<i>00:00'10"</i>
Intervalxshots/interval	<i>1x1</i>
Exposure smoothing	<i>OFF ON</i>
Silent photography	
Focus shift shooting	
Start	
No. of shots	<i>10</i>
Focus step width	
Interval until next shot	<i>01"</i>
Exposure smoothing	<i>OFF</i>
Silent photography	<i>ON</i>
Starting storage folder	
Silent live view photography	
MOVIE SHOOTING MENU	
Reset movie shooting menu	
File naming	<i>DSC</i>
Destination	<i>XQD</i>
Image area	
Choose image area	
Auto DX crop	
Frame size/rate	<i>3840x2160;30p 1920x1080;30p</i>
Movie quality	<i>HIGH NORMAL</i>
Movie file type	<i>MOV</i>
ISO sensitivity settings	
Maximum sensitivity	<i>51200</i>
Auto ISO control (mode M)	<i>Off ON</i>
ISO sensitivity (mode M)	<i>100</i>
White balance	<i>Auto1</i>
Set Picture Control	<i>Flat Standard</i>
Manage Picture Control	
Active D-Lighting	<i>OFF Normal</i>
High ISO NR	<i>OFF Normal</i>
Flicker reduction	<i>AUTO</i>
Microphone sensitivity	<i>Manual AUTO</i>
Attenuator	<i>OFF</i>
Frequency response	<i>Wide</i>
Wind noise reduction	<i>OFF</i>
Electronic VR	<i>OFF ON</i>
Time-lapse movie	<i>OFF</i>
Start	
Interval	
Shooting time	
Exposure smoothing	<i>OFF ON</i>
Silent photography	<i>On</i>

CUSTOM SETTING MENU	
Custom settings bank	
a Autofocus	
a1 AF-C priority selection	<i>Release</i>
a2 AF-S priority selection	<i>Focus</i>
a3 Focus tracking with lock-on	<i>3(Normal)</i>
Blocked shot AF response	<i>3</i>
Subject motion	<i>Middle</i>
a4 3D-tracking face-detection	<i>IFF ON</i>
a5 3D-tracking watch area	<i>NORM</i>
a6 Number of focus points	<i>55 points</i>
a7 Store by orientation	<i>Focus point &amp; AF-area mode</i>
a8 AF activation	<i>ON OFF</i>
a9 Limit AF-area mode selection	✓✓✓✓✓
a10 Autofocus mode restrictions	<i>OFF</i>
a11 Focus point wrap-around	<i>ON/Wrap</i>
a12 Focus point options	
Focus point illumination	<i>AUTO</i>
Manual focus mode	<i>ON</i>
Dynamic-area AF assist	<i>ON</i>
b Metering/exposure	
b1 ISO sensitivity step value	<i>1/3</i>
b2 EV steps for exposure control	<i>1/3</i>
b3 Exp./flash comp. step value	<i>1/3</i>
b4 Easy exposure compensation	<i>ON OFF</i>
b5 Matrix metering	<i>(Face) ON</i>
b6 Center-weighted area	<i>8mm</i>
b7 Fine-tune optimal exposure	
Matrix metering	<i>0</i>
Center-weighted metering	<i>0</i>
Spot metering	<i>0</i>
Highlight-weighted metering	<i>0</i>
c Timers/AE lock	
c1 Shutter-release button AE-L	<i>ON</i>
c2 Standby timer	<i>6s</i>
c3 Self-timer	
Self-timer delay	<i>10s</i>
Number of shots	<i>1</i>
Interval between shots	<i>0.5s</i>
c4 Monitor off delay	
Playback	<i>10s</i>
Menus	<i>1min</i>
Information display	<i>10s</i>
Image review	<i>4s</i>
Live view	<i>10m</i>
d Shooting/display	
d1 CL mode shooting speed	<i>5 fps</i>
d2 Max. continuous release	<i>200</i>
d3 ISO display	<i>ON</i>
d4 Sync. release mode options	<i>Sync</i>
d5 Exposure delay mode	<i>OFF</i>
d6 Electronic front-curtain shutter	<i>ON</i>
d7 File number sequence	<i>ON</i>
d8 Peaking highlight color	<i>Red</i>
d9 Viewfinder grid display	<i>OFF</i>
d10 LCD illumination	<i>OFF</i>
d11 Live view in continuous mode	<i>ON</i>

e Bracketing/flash	
e1 Flash sync speed	<i>1/250</i>
e2 Flash shutter speed	<i>1/15 1/60</i>
e3 Exp. comp. for flash	<i>Bkg only Entire frame</i>
e4 Auto flash ISO sen. cont.	<i>Subject &amp; bkg Sub. only</i>
e5 Modeling flash	
e6 Auto bracketing (mode M)	
e7 Bracketing order	<i>Under&gt;MTR&gt;over</i>
f Controls	
f1 Custom control assignment	
f2 Multi selector center button	
Shooting mode	<i>Reset</i>
Playback mode	<i>Zoom on/off</i>
Live view	<i>Reset</i>
f3 Shutter spd & aperture lock	
f4 Customize command dials	
Reverse rotation	<i>✓ Shutter speed/aperture</i>
Exposure setting	
Autofocus setting	
Change main/sub	<i>OFF</i>
Aperture setting	
Menus and playback	<i>ON</i>
Sub-dial frame advance	<i>10</i>
f5 Multi selector	<i>Do nothing</i>
f6 Release button to use dial	<i>OFF(No)</i>
f7 Reverse indicators	<i>- 0 +</i>
f8 Live view button options	<i>Enable</i>
f9 Lamp switch	
f10 Assign MB-D18 buttons	
Fn button	
Fn button + dial	
AF-ON button	
Multi selector	
g Movie	
g1 Custom control assignment	
g2 Highlight brightness	
SETUP MENU	
Format memory card	
Language	
Time zone and date	
Time zone	
Date and time	
Sync with smart device	<i>ON</i>
Date format	<i>Year/Month/Day</i>
Daylight saving time	
Monitor brightness	
Menus/playback	<i>0</i>
Live view	<i>0</i>
Monitor color balance	
Virtual horizon	
Information display	<i>AUTO</i>
Auto	
Manual	<i>Dark on light</i>
AF fine-tune	
AF fine-tune (On/Off)	<i>On Off</i>
Saved value	
Default	
List saved values	

SETUP MENU (cont.)	
Non-CPU lens data	<i>No. 1</i>
Clean image sensor	<i>Clean at shutdown</i>
Clean now	
Clean at startup/shutdown	
Lock mirror up for cleaning	
Image Dust Off ref photo	
Image comment	<i>Attach comment</i>
Copyright information	<i>ON</i>
Artist	
Copyright	
Beep options	
Beep on/off	<i>OFF</i>
Volume	<i>1</i>
Pitch	<i>L</i>
Touch controls	
Enable/disable touch control	<i>ON</i>
Full-Frame playback flicks	<i>Left→Right</i>
HDMI	
Output resolution	<i>Auto</i>
External recording control	<i>ON OFF</i>
Advanced	
Output range	<i>AUTO</i>
Output display size	<i>100%</i>
Live view on-screen display	<i>ON</i>
Dual monitor	<i>ON</i>
Location data	
Download from smart device	<i>OFF</i>
Position	
External GPS device options	
Standby timer	
Set clock from satellite	
Wireless remote (WR) options	
Assign remote (WR) Fn button	<i>None</i>
Airplane mode	<i>ON/Enable</i>
Connect to smart device	
Start	
Password protection	
Send to smart device (auto)	<i>OFF</i>
Wi-Fi	
Network settings	
SSID	
Authentication/encryption	
Password	
Channel	
Current settings	
Reset connection settings	
Bluetooth	
Network	
Conformity marking	
MB-D18 battery type	
Battery order	<i>MB-D18 batteries first</i>
Battery info	
Slot empty release lock	<i>LOCK</i>
Save/load settings	
Reset all settings	
Firmware version	
<i>Standard recommendations in Gray</i>	
<i>Advanced user recommendations in Red</i>	

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Nikon D850

PLAYBACK MENU
Delete
Playback folder
Hide image
Playback display options
Copy images(s)
Image review
After delete
After burst, show
Auto image rotation
Rotate tall
Slide show
Start
Image type
Frame interval
Select to send to smart device
PHOTO SHOOTING MENU
Photo shooting menu bank
Extended photo menu banks
Storage folder
Select folder by number
Select folder from list
File Naming
Primary slot selection
Secondary slot function
Flash control
Flash control mode(built-in)
Wireless flash options
Group flash options
Radio remote flash info
Image area
Choose image area
Auto DX crop
Viewfinder mask display
Image quality
Image size
JPEG/TIFF
NEF (RAW)
NEF (RAW) recording
NEF (RAW) compression
NEF (RAW) bit depth
ISO sensitivity settings
ISO sensitivity
Auto ISO sensitivity control
Maximum sensitivity
Maximum sensitivity with flash
Minimum shutter speed
Auto Min. SS
White balance
Set Picture Control
Manage Picture Control
Save/edit
Rename
Delete
Load/save
Color space
Active D-Lighting
Long exposure NR
High ISO NR
Vignette control
Auto distortion control

PHOTO SHOOTING MENU (cont.)
Flicker reduction
Flicker reduction setting
Flicker reduction indicator
Auto bracketing set
Multiple exposure
Multiple exposure mode
Number of shots
Overlay mode
Keep all exposures
Select first exposure (NEF)
HDR (high dynamic range)
HDR mode
Exposure differential
Smoothing
Interval timer shooting
Start
Choose start day/time
Interval
Intervalxshots/interval
Exposure smoothing
Silent photography
Focus shift shooting
Start
No. of shots
Focus step width
Interval until next shot
Exposure smoothing
Silent photography
Starting storage folder
Silent live view photography
MOVIE SHOOTING MENU
Reset movie shooting menu
File naming
Destination
Image area
Choose image area
Auto DX crop
Frame size/rate
Movie quality
Movie file type
ISO sensitivity settings
Maximum sensitivity
Auto ISO control (mode M)
ISO sensitivity (mode M)
White balance
Set Picture Control
Manage Picture Control
Active D-Lighting
High ISO NR
Flicker reduction
Microphone sensitivity
Attenuator
Frequency response
Wind noise reduction
Electronic VR
Time-lapse movie
Start
Interval
Shooting time
Exposure smoothing
Silent photography

CUSTOM SETTING MENU
Custom settings bank
a Autofocus
a1 AF-C priority selection
a2 AF-S priority selection
a3 Focus tracking with lock-on
Blocked shot AF response
Subject motion
a4 3D-tracking face-detection
a5 3D-tracking watch area
a6 Number of focus points
a7 Store by orientation
a8 AF activation
a9 Limit AF-area mode selection
a10 Autofocus mode restrictions
a11 Focus point wrap-around
a12 Focus point options
Focus point illumination
Manual focus mode
Dynamic-area AF assist
b Metering/exposure
b1 ISO sensitivity step value
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b3 Exp./flash comp. step value
b4 Easy exposure compensation
b5 Matrix metering
b6 Center-weighted area
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Matrix metering
Center-weighted metering
Spot metering
Highlight-weighted metering
c Timers/AE lock
c1 Shutter-release button AE-L
c2 Standby timer
c3 Self-timer
Self-timer delay
Number of shots
Interval between shots
c4 Monitor off delay
Playback
Menus
Information display
Image review
Live view
d Shooting/display
d1 CL mode shooting speed
d2 Max. continuous release
d3 ISO display
d4 Sync. release mode options
d5 Exposure delay mode
d6 Electronic front-curtain shutter
d7 File number sequence
d8 Peaking highlight color
d9 Viewfinder grid display
d10 LCD illumination
d11 Live view in continuous mode

e Bracketing/flash
e1 Flash sync speed
e2 Flash shutter speed
e3 Exp. comp. for flash
e4 Auto flash ISO sen. cont.
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f Controls
f1 Custom control assignment
f2 Multi selector center button
Shooting mode
Playback mode
Live view
f3 Shutter spd & aperture lock
f4 Customize command dials
Reverse rotation
Exposure setting
Autofocus setting
Change main/sub
Aperture setting
Menus and playback
Sub-dial frame advance
f5 Multi selector
f6 Release button to use dial
f7 Reverse indicators
f8 Live view button options
f9 Lamp switch
f10 Assign MB-D18 buttons
Fn button
Fn button + dial
AF-ON button
Multi selector
g Movie
g1 Custom control assignment
g2 Highlight brightness
SETUP MENU
Format memory card
Language
Time zone and date
Time zone
Date and time
Sync with smart device
Date format
Daylight saving time
Monitor brightness
Menus/playback
Live view
Monitor color balance
Virtual horizon
Information display
Auto
Manual
AF fine-tune
AF fine-tune (On/Off)
Saved value
Default
List saved values

SETUP MENU (cont.)
Non-CPU lens data
Clean image sensor
Clean now
Clean at startup/shutdown
Lock mirror up for cleaning
Image Dust Off ref photo
Image comment
Copyright information
Artist
Copyright
Beep options
Beep on/off
Volume
Pitch
Touch controls
Enable/disable touch control
Full-Frame playback flicks
HDMI
Output resolution
External recording control
Advanced
Output range
Output display size
Live view on-screen display
Dual monitor
Location data
Download from smart device
Position
External GPS device options
Standby timer
Set clock from satellite
Wireless remote (WR) options
Assign remote (WR) Fn button
Airplane mode
Connect to smart device
Start
Password protection
Send to smart device (auto)
Wi-Fi
Network settings
SSID
Authentication/encryption
Password
Channel
Current settings
Reset connection settings
Bluetooth
Network
Conformity marking
MB-D18 battery type
Battery order
Battery info
Slot empty release lock
Save/load settings
Reset all settings
Firmware version
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- ### Basic Camera Check List
1. Charge & install battery
  2. Install & format memory card
  3. Set image quality (Raw/JPEG)
  4. Check to confirm appropriate menu settings
  5. Shoot test photos, look for dust on sensor



### Recommendations

These will give you a good starting point for a variety of photographic situations. Your settings will vary according the light, lenses, and other equipment you are working with. You'll likely find many settings that you want to adjust differently as you develop your own style.

Camera Operation		Super Simple						
Exposure Mode	Shutter Speed	Aperture	ISO	Exposure Compensation	White Balance	Focus Mode	AF-Area Mode	Release Mode
<b>M</b>	8000 4000 2000	32	<b>Auto</b>	+5	<b>Auto</b>	<b>AF-S</b>	<b>Auto-area</b>	<b>Single</b>
<b>A</b>	1000 500 250	22	Lo 1.0 (32)	+4	Natural light auto	AF-C	Single	Continuous Low speed
<b>S</b>	125 60 30	16	64	+3	Incandescent	Manual	Group (5-points)	Continuous High speed
<b>P</b>	250 125 60 30 15 8 4 2 1"	11	200	+2	Fluorescent (17)		Dynamic (9-points)	Quiet
	15 8 4 2 1"	8	400	+1	0		Dynamic (25-points)	Quiet Continuous
	15 8 4 2 1"	5.6	800	0	-1		Dynamic (12-points)	Self-timer
	8 4 2 1"	4	1600	-2	-1		Dynamic (153-points)	Mirror Up
	4 2 1"	2.8	3200	-3	-2			
	2 1"	2	6400	-4	-3			
	2"	1.4	12,800	-5	-4			
	4"		25,600		-5			
	8"		Hi 1.0 (51,200)					
	15"		Hi 2.0 (102,400)					
	30"						3D-Tracking	

### Super Simple

Everything on auto, then use "Flexible Program" to adjust the shutter speed and aperture combinations. The camera will use all focus points to achieve focus. Be careful of the camera focusing on subjects in the foreground.



Camera Operation				Landscape				
Exposure Mode	Shutter Speed	Aperture	ISO	Exposure Compensation	White Balance	Focus Mode	AF-Area Mode	Release Mode
M	8000	32	Auto	+5	Auto	AF-S	Auto-area	Single
A	4000	22	Lo 1.0 (32)	+4	Natural light auto	AF-C	Single	Continuous Low speed
S	2000	16	64	+3	Incandescent	Manual	Group (5-points)	Continuous High speed
P	1000	11	100	+2	Fluorescent (1-7)		Dynamic (9-points)	Quiet
	500	8	200	+1	Direct sunlight		Dynamic (25-points)	Quiet Continuous
	250	5.6	400	0	Flash		Dynamic (72-points)	Self-timer
	125	4	800	-1	Cloudy		Dynamic (153-points)	Mirror Up
	60	2.8	1600	-2	Shade		3D-Tracking	
	30	2	3200	-3	K Temp.			
	15	1.4	6400	-4	Preset manual			
	8		12,800	-5				
	4		25,600					
	2		Hi 1.0 (51,200)					
	1		Hi 2.0 (102,400)					
	1/2							
	1/4							
	1/8							
	1/15							
	1/30							

## Landscape

While in Manual exposure (M) you'll likely want a lot of depth-of-field to keep everything in focus. The shutter speed won't matter if the wind isn't blowing too much and you are on a tripod (which you should be). Metering shouldn't matter too much if you shoot a test photo then check the histogram. Another good option would be Aperture Priority (A): set the aperture to the f/11 - f/16 range and if handholding, make sure you can hold the camera steady for the given shutter speed.

Camera Operation				Portrait				
Exposure Mode	Shutter Speed	Aperture	ISO	Exposure Compensation	White Balance	Focus Mode	AF-Area Mode	Release Mode
M	8000	32	Auto	+5	Auto	AF-S	Auto-area	Single
A	4000	22	Lo 1.0 (32)	+4	Natural light auto	AF-C	Single	Continuous Low speed
S	2000	16	64	+3	Incandescent	Manual	Group (5-points)	Continuous High speed
P	1000	11	100	+2	Fluorescent (1-7)		Dynamic (9-points)	Quiet
	500	8	200	+1	Direct sunlight		Dynamic (25-points)	Quiet Continuous
	250	5.6	400	0	Flash		Dynamic (72-points)	Self-timer
	125	4	800	-1	Cloudy		Dynamic (153-points)	Mirror Up
	60	2.8	1600	-2	Shade		3D-Tracking	
	30	2	3200	-3	K Temp.			
	15	1.4	6400	-4	Preset manual			
	8		12,800	-5				
	4		25,600					
	2		Hi 1.0 (51,200)					
	1		Hi 2.0 (102,400)					
	1/2							
	1/4							
	1/8							
	1/15							
	1/30							

## Portrait

While in Manual exposure (M) choose a shallow depth of field to separate your subject from the background. Keep the ISO as low as possible for best quality. Set WB then possibly add a bit of fill flash (try a -1 Flash Exposure Compensation) to fill in the shadows and give a little sparkle to the eyes. Focus on the nearest eye, lock focus in, and recompose into a pleasing frame. A second option would be to be in Aperture Priority (A) while setting a wide aperture like f/1.4 - f/4.

Camera Operation				Action				
Exposure Mode	Shutter Speed	Aperture	ISO	Exposure Compensation	White Balance	Focus Mode	AF-Area Mode	Release Mode
M	8000	32	Auto	+5	Auto	AF-S	Auto-area	Single
A	4000	22	Lo 1.0 (32)	+4	Natural light auto	AF-C	Single	Continuous Low speed
S	2000	16	64	+3	Incandescent	Manual	Group (5-points)	Continuous High speed
P	1000	11	100	+2	Fluorescent (1-7)		Dynamic (9-points)	Quiet
	500	8	200	+1	Direct sunlight		Dynamic (25-points)	Quiet Continuous
	250	5.6	400	0	Flash		Dynamic (72-points)	Self-timer
	125	4	800	-1	Cloudy		Dynamic (153-points)	Mirror Up
	60	2.8	1600	-2	Shade		3D-Tracking	
	30	2	3200	-3	K Temp.			
	15	1.4	6400	-4	Preset manual			
	8		12,800	-5				
	4		25,600					
	2		Hi 1.0 (51,200)					
	1		Hi 2.0 (102,400)					
	1/2							
	1/4							
	1/8							
	1/15							
	1/30							

## Action

Manual exposure will give you the most consistent results unless you are shooting in both direct sun and shade. Keep a shutter speed of 1/500 or faster to stop the action. A fast lens (e.g. f/2.8) is a great benefit here. The ISO will most likely need to be 400 or higher. Indoor sports will often require ISO 3200 or more. Focus needs to be put into the AF-C mode. A larger focus area, "Dynamic-area AF 25", will make tracking moving subjects easier. Use the continuous shutter release option and shoot in short bursts. Another option is to be in the Aperture Priority (A) mode while setting a "fast" aperture (f/2.8 - f/4).

Camera Operation				General Photography				
Exposure Mode	Shutter Speed	Aperture	ISO	Exposure Compensation	White Balance	Focus Mode	AF-Area Mode	Release Mode
M	8000	32	Auto	+5	Auto	AF-S	Auto-area	Single
A	4000	22	Lo 1.0 (32)	+4	Natural light auto	AF-C	Single	Continuous Low speed
S	2000	16	64	+3	Incandescent	Manual	Group (5-points)	Continuous High speed
P	1000	11	100	+2	Fluorescent (1-7)		Dynamic (9-points)	Quiet
	500	8	200	+1	Direct sunlight		Dynamic (25-points)	Quiet Continuous
	250	5.6	400	0	Flash		Dynamic (72-points)	Self-timer
	125	4	800	-1	Cloudy		Dynamic (153-points)	Mirror Up
	60	2.8	1600	-2	Shade		3D-Tracking	
	30	2	3200	-3	K Temp.			
	15	1.4	6400	-4	Preset manual			
	8		12,800	-5				
	4		25,600					
	2		Hi 1.0 (51,200)					
	1		Hi 2.0 (102,400)					
	1/2							
	1/4							
	1/8							
	1/15							
	1/30							

## General Photography

The Aperture Priority (A) mode can be easily shifted to any available aperture/shutter speed combination. Set an ISO as low as you can until you decide you need a faster shutter speed. Use exposure compensation, as necessary, for dark or bright subjects. Single point focus allows for precise control of focus selection.