



DBS Professional Technical Guide



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Using the Menus

Use the MENU button, 🛞 button, and multi selector to navigate the menus.

MENU button



Display the menus.

Press the MENU button to display the menus.

2 Highlight the icon for the current menu.

Press ◀ to highlight the icon for the current menu.



Þ	SETUP MENU	
	Format memory card	
	LCD brightness	0
3	Clean image sensor	
L I	Lock mirror up for cleaning	
~	Image Dust Off ref photo	
8	Video mode	NTSC
	HDMI	AUTO
	Flicker reduction	50Hz .



Press ► to position the cursor in the selected menu.



Þ	PLAYBACK MENU	
	Delete	卣
	Playback folder	NCD3S
Ĵ	Hide image	S.
н	Display mode	
0	Copy image(s)	
둖	Image review	0FF
	After delete	
?	Rotate tall	0FF

PLAYBACK MENU

ñ

NCD3

5

NFI



Highlight a menu item. Press ▲ or ▼ to high-

light a menu item.







Using the Menus







8 Select the highlighted item.

Press ® to select the highlighted item (some items can also be selected by pressing ▶ or the center of the multi selector). To exit without making a selection, press the MENU button.



Autofocus: Focusing with Autofocus

This chapter details Custom Settings that can be used to frame moving subjects at sporting events:

- a1 (AF-C priority selection)
- a3 (Dynamic AF area)
- a4 (Focus tracking with lock-on)

These options are best used at the following settings:

- Focus mode: C (continuous-servo AF)
- AF-area mode: [::] (dynamic-area AF)

Select continuous-servo AF.

Rotate the focus-mode selector to **C**. The camera will continually adjust focus while the shutter-release button is pressed halfway.





Select dynamic-area AF.

Rotate the AF-area mode selector to ($\dot{\Theta}$) (dynamic-area AF). If the subject briefly leaves the selected focus point, the camera



will focus based on information from surrounding focus points.

3 Choose an option for Custom Setting a1.

Choose whether the camera gives priority to focus or to shutter response in focus mode **C**.

a Autofocus	
a1 AF-C priority selection	۲
a2 AF-S priority selection	6000
a3 Dynamic AF area	(e) 9
a4 Focus tracking with lock-on	AF≣
a5 AF activation	ON
a6 Focus point illumination	Ę.
a7 Focus point wrap-around	OFF
a8 AF point selection	AF51.
	Autofocus Autofocus AF-C priority selection & AF-S priority selection & AF-S priority selection & AF Area & Focus tracking with lock-on & AF Activation & AF Activation & AF Focus point illumination & AF Focus point way-around & AF point selection

A Choose an option for Custom Setting a3.

Choose the number of focus points used for dynamicarea AF. Select **9 points** or **21 points** for track-and-field events or for subjects that move unpredictably.

	a Autofocus	
	a1 AF-C priority selection	۲
~	a2 AF-S priority selection	(###)
0	a3 Dynamic AF area	[0] 9
	a4 Focus tracking with lock-on	AF≞
	a5 AF activation	ON
	a6 Focus point illumination	Ę.
	a7 Focus point wrap-around	0FF
	a8 AF point selection	AF51

5 Choose an option for Custom Setting a4. Choose how quickly the camera responds when an object moves between the subject and the camera.

	a Autofocus	
	a1 AF-C priority selection	
	a2 AF-S priority selection	8008
0	a3 Dynamic AF area	(e) 9
	a4 Focus tracking with lock-on	AF
	a5 AF activation	ON
	a6 Focus point illumination	Q.
	a7 Focus point wrap-around	OFF
?	a8 AF point selection	AF51_

Focus Tracking with Lock-On

By preventing the camera from refocusing when your subject is briefly obscured by another object, focus tracking with lock-on ensures that the camera will continue to track the main subject once the obstacle has moved away (focus mode **C** only). Choose the length of time before the camera refocuses from **5** (Long), **4**, **3** (Normal), **2**, and **1** (Short). To refocus before lock-on ends, press the shutter-release button halfway or press the **AF-ON** button again.



Camera will wait before refocusing on objects behind the subject

Camera will track and focus on objects the same distance from the camera as the subject

Camera will wait before refocusing on objects in front of the subject

Behind the Goal

Photographers positioned behind the goal at a soccer match are faced with subjects that move unpredictably and that may be intermittently obscured by objects coming between the subject and the camera during framing.



Choose the following focus options:



AF-C priority selection: Release



Dynamic AF area: 9 points or 21 points



Focus tracking with lock-on: 3 (Normal)

Pitcher or Runner?

Choose lower lock-on times for improved focus response when you may have to switch quickly between subjects at different distances from the camera.





AF-C priority selection: Release



Dynamic AF area: 9 points or 21 points



Focus tracking with lock-on: 1 (Short) or Off (note that Off reduces effectiveness of dynamic-area AF)

The Inside Track

Choose longer lock-on times when photographing a runner on the inside track or in other situations in which your subject may be blocked for relatively long periods.



AF-C priority selection: Release

Dynamic AF area: 9 points or 21 points

Focus tracking with lock-on: 5 (Long)

At the Finish Line

Selecting **Release** for Custom Setting a1 ensures a quick shutter response and faster frame advance rates.





AF-C priority selection: Release



Dynamic AF area: 9 points or 21 points



Focus tracking with lock-on: 3 (Normal)

Poor Lighting or Bad Weather

Select **Release + focus** for quick shutter response while slowing frame advance rates in continuous release mode for improved focus with scenes that are poorly lit or low contrast.





AF-C priority selection: Release + focus



Dynamic AF area: 9 points *or* 21 points



Focus tracking with lock-on: 3 (Normal)

Note: If **Focus** is selected for Custom Setting a1, the shutter can only be released when the camera is in focus.

Autofocus: Winter Sports



AF-C priority selection	Dynamic AF area	Focus tracking with lock-on
	9 points or 21 points	3 (Normal)
	21 points	5 (Long)
Release	9 points or 21 points	
	9 points or 21 points	3 (Normal)
	9 points	

Autofocus

Event	Description
Ice hockey	Subjects are extremely fast-moving and frequently overlap.
Curling	Composition focuses on curlers.
Freestyle cross	Woods provide high- contrast background.
Freestyle aerial	Rapid, complicated movement.
Freestyle moguls (trick)	Subject is performing trick.

Winter Sports

	AF-C priority selection	Dynamic AF area	Focus tracking with lock-on
		9 points	0ff-2
	Release	9 points , or select [••] (single-point) for AF-area mode	3 (Normal)—5 (Long)
		9 points	1 (Short)
		51 points	2 (Normal)
		21 points	S (Normal)

Autofocus

Event	Description
Freestyle moguls	Subjects move predict- ably between tricks.
Alpine skiing Snowboard halfpipe	Subjects are fast-mov- ing but easy to frame.
Biathlon/ cross-country skiing	Subjects are easy to frame.
Ski jumping	Subject has left the ramp and is in the middle of the jump.

AF-C priority selection	Dynamic AF area	Focus tracking with lock-on
 Release	9 points	3 (Normal)
1	9 points or 21 points	

Autofocus





AF-C priority	Dynamic	Focus tracking
selection	AF area	with lock-on
Release	9 points	

Exposure: Auto ISO Sensitivity Control

Auto ISO sensitivity control automatically adjusts ISO sensitivity if optimal exposure can not be achieved at the value selected by the user.

-Tip

Exposure compensation can be used with auto ISO sensitivity control. Matrix metering is recommended. In exposure mode \mathbf{n} , enable ISO sensitivity auto control to ensure optimal exposure at the selected shutter speed and aperture.



A Daytime Stadium Match

Auto ISO sensitivity control is ideal for scenes with large variations in brightness.



control On

speed: 1/500 s

Choose the following ISO sensitivity settings:

A	ISO sensitivity settings		IS	A consitivity 200		
۵	ISO sensitivity			o Schistervicy. 200		
10	Lo 1	i				
6	Lo 0.7					
	Lo 0.3					
	200	OK				
12	250					
	400					
_			_		_	
	ISO sensitivity settings		Þ.	ISO sensitivity settings	Þ	ISO sensitivity settings
a	ISO sensitivity	200	۵	Maximum sensitivity	Ω	Minimum shutter speed
				10000		1/1000 s
	ISO sensitivity auto control	ON 🕨	4	12800 OK	4	1/800 s
	Maximum sensitivity	12800		Hi 0.3		1/640 s
Ě	Minimum shutter speed	1/30	訚	Hi 0.7		1/500 s
12			12	Hi 1	12	1/400 s
				Hi 2		1/320 s
?				Hi 3		1/250 s
IS	O sensitivity a	ito	Μ	aximum	Μ	inimum shutter

In this example, ISO sensitivity will automatically be raised to a maximum of ISO 12800 if optimal exposure can not be achieved at ISO 200. In modes *P* and *A*, sensitivity will be raised only if the shutter speed required for optimal exposure would be slower than 1/500 s (slower speeds will be used if a speed of 1/500 s would still result in underexposure at ISO 12800).

sensitivity: 12800



Exposure: Active D-Lighting (ADL)

Active D-Lighting preserves details in highlights and shadows, creating photographs with natural contrast.

A Daytime Stadium Match Revisited

Use Active D-Lighting for compositions that include areas of sharply contrasting brightness.







The following settings are recommended:



Active D-Lighting	Auto
Metering	Matrix ¹
Exposure mode	P , S , or R ²
ISO sensitivity	ISO 3200 or less ³
Memory card	UDMA-compliant memory card ⁴

- 1. Active D-Lighting will not produce the desired effect when used with center-weighted or spot metering.
- 2. Active D-Lighting may not produce the desired results in mode **M**.
- 3. Noise may be more noticeable in photographs taken at higher values.
- 4. Choose cards with faster write times for quicker processing when taking large numbers of photographs.

- Winter Sports

Because they help to preserve details in bright areas of shots taken at the ski slope and in other snowy locations on sunny days, these settings are also recommended for winter sports photographs.



Exposure: Easy Exposure Compensation

When **On** or **On (Auto reset)** is selected for Custom Setting b4 (**Easy exposure compensation**), exposure compensation can be set simply by rotating a command dial (at default settings, the sub-command



dial is used for easy exposure compensation in exposure modes *P* and *S*, and the main command dial is used in exposure mode *R*). If **On (Auto reset)** is selected, exposure compensation will automatically be reset to 0 when the camera is turned off.

– 📐 Note

Auto reset also resets exposure compensation when the exposure meters turn off. The length of time the exposure meters remain on is controlled with Custom Setting c2 (**Auto meter-off delay**).

- Custo	om S	Setting f8				
The	dia	al used to set exposur	e Sub-command dial			
com rese tom option ting dial	per (t) (Set (pe on f8 (s) >	nsation when On (Aut or On is selected for Cus tring b4 (Easy exposur nsation) depends on th selected for Custom Ser (Customize comman Change main/sub .	Main command dial			
		Customize command di	als > Change main/sub			
		Off	On			
E	Р	Sub-comr	nand dial			
nsod	5	Sub-command dial	Main command dial			
re m	R	Main command dial	Sub-command dial			
ode	DODE M N/A					

Shooting Tips: Image Area

At default settings, image quality is not automatically adjusted when you choose a smaller image area. As a result, pictures taken using smaller image areas will not be the same quality as FX-format images when printed at the same size. You can however produce photos of similar quality to FX-format images by increasing the pixel count and/or reducing compression when choosing smaller image areas. The cells highlighted in white in the table below show how different combinations of settings can produce results of similar quality, as indicated by the pixel count in mega-pixels (M).

	Image area (dotted lines show angle of view)						
Compression							
and image	FX (36 × 24)	$1.2 \times (30 \times 20)$	DX (24 × 16)				
size	1.0×	1.2×	1.5×				
JPEG basic, size M	6.8 M	4.7 M	2.9 M				
JPEG normal, size M	6.8 M	4.7 M	2.9 M				
JPEG fine, size L	12.1 M	8.4 M	5.1 M				

To switch rapidly from one image area to another while maintaining image quality, assign each combination of settings to a shooting menu bank and use the **Fn** button to switch between banks.

Choose shooting menu bank A. In the shooting menu, select **Shooting menu bank**. Highlight bank A and press ⊛.





Adjust settings for shooting menu bank A.

Sample settings are listed below:

- Image quality: JPEG basic
- Image size: M
- Image area: FX (36 \times 24) 1.0 \times

Choose shooting menu bank B. In the shooting menu, select Shooting menu bank. Highlight bank B and press ⁽²⁾.

Þ	SHOOTING MENU	
a	Shooting menu bank	A
11	Reset shooting menu	
•	Extended menu banks	0FF
	Active folder	100
8	File naming	DSC
R.	Slot 2	□• □
	Image quality	BASIC
?	Image size	

*	Shooting menu bank			
۵				
	A		ï	
	в	01	Ø	
	ABC	Rename		
?				

4 Adjust settings for shooting menu bank B.

For quality similar to that produced by the settings in Step 2, choose either (a) JPEG normal, size M, and 1.2× (30×20) 1.2×, or (b) JPEG fine, size L, and DX (24×16) 1.5×.





Choose the role of the Fn button.

In the Custom Settings menu, select Custom Setting f4 (Assign Fn button) > Fn button + command dials. Highlight Shooting menu bank and press ®.



6

Switch between shooting menu banks.

Press the **Fn** button and rotate a command dial to cycle through shooting menu banks as shown below.



🔪 Note

Apart from image quality, image size, and image area, settings for banks A and B should be identical. Any changes to bank A should also be made to bank B. Note that although separate Picture Controls may be selected for each bank, modifications to Picture Control settings (including quick adjust and other manual adjustments) and changes to **Interval timer shooting**, **Multiple exposure**, and **Extended menu banks** apply to all banks.

Frame Rate (Continuous High-Speed Release Mode)

The table below shows the maximum frame rate for continuous high-speed **(CH)** release mode.

DX (24 $ imes$ 16) 1.5 $ imes$	Other image areas		
9–11 fps*	9fps		
* Frame rate selected using Custom Setting d2 (Shooting			
speed) > Continuous hig	h-speed. Note that at 10 and		
11 fps, focus will be fixed at the setting for the first pho-			
tograph in each series, and	exposure may be fixed at the		
value for the first photograp	h in each series if the subject		

is poorly lit.



Tips

The camera has four shooting menu banks (A, B, C, and D). Different combinations of shooting menu settings can be stored in different banks, allowing the user to switch instantly from one combination to another using the **Shooting menu bank** option in the shooting menu or using the **Fn** button as described on the preceding pages. Menu bank selection can also be assigned to the **Pv** or **AE-L/AF-L** button using Custom Setting f5 (**Assign preview button**) or f6 (**Assign AE-L/AF-L button**).

If the settings in bank C are the same as bank A and those in bank D the same as bank B, you will be able to identify the selected image area by the crop displayed in the viewfinder.

Shooting Tips: Vignette Control

You may notice a drop in peripheral illumination (vignetting) with certain lenses, particularly at maximum aperture. This can be corrected using the **Vignette control** option in the shooting menu.





Selecting **Vignette control** in the shooting menu displays the options shown at right.



🔪 Note

Vignette control can be used type G and D lenses only (either alone or with AF-S/AF-I teleconverters) but is not available with DX-format or PC lenses or when FXformat lenses are used with the DX-format crop. It has no effect on movies, multiple exposures, or image overlay or when **DX (24×16) 1.5×** is selected for **Image area**. Although its effects are not visible in the live view display, vignette control does apply to photographs taken using live view.



Shooting Tips: Multiple Exposures

Follow the steps below to record a series of two to ten exposures in a single photograph. While multiple exposures can be recorded at any image quality setting, they make use of RAW data from the camera image sensor to produce results with colors noticeably better than photographs combined in an imaging application.

Creating a Multiple Exposure

Note that shooting will end and a multiple exposure will be recorded automatically if no operations are performed for 30 s.

-Extended Recording Times

For an interval between exposures of more than 30 s, extend the auto meter-off delay using Custom Setting c2 (**Auto meter-off delay**). The maximum interval between exposures is 30 s longer than the option selected for Custom Setting c2.

1

Select Multiple exposure in the shooting menu.

Press the MENU button to display the menus. Highlight **Multiple exposure** in the shooting menu and press ▶.

	-	
Þ	SHOOTING MENU	
û	Vignette control	
1	Long exp. NR	0FF
	High ISO NR	NORM
	ISO sensitivity settings	
0	Live view mode	2
12	Multiple exposure	0FF
	Movie settings	
?	Interval timer shooting	OFF

2 Select a mode.

Highlight **Multiple exposure mode** and press **▶**.

Highlight one of the following and press \circledast .

• To take a series of multiple exposures, select ■\$On (series). Multiple exposure shooting will continue until you select Off for Multiple exposure mode.





- To take one multiple exposure, select **©On** (single photo). Normal shooting will resume automatically after you have created a single multiple exposure.
- To exit without creating additional multiple exposures, select Off.

If **On (series)** or **On (single photo)** is selected, a **=** icon will be displayed in the top control panel.

P_	12	5	<u>5.6</u>
SHOOT A	af•s	^{вем}	(10000)
	[1]	1.0 к(()

3

Choose the number of shots.

Highlight **Number of shots** and press **▶**.

Press ▲ or ▼ to choose the number of exposures that will be combined to form a single photograph and press [®].





- Column: The BKT Button

If **Multiple exposure** is selected for Custom Setting f7 (**Assign BKT button**), you can select the multiple exposure mode by pressing the **BKT** button and rotating the main command dial, and the number of shots by pressing the **BKT** button and rotating the sub-command dial. The mode and number of shots are shown in the top control panel: **I** appears when **On (series)** is selected and **I** when **On (single photo)** is selected; no icon appears when multiple exposure is off.

Adjust gain. Highlight Auto gain and press

Multiple exposure Multiple exposure Multiple exposure me Multip

Highlight one of the following options and press \circledast .

• **On**: Gain is adjusted according to the number of exposures actually recorded (gain for each exposure is set to 1/2 for two exposures, 1/3 for three exposures, etc.).





• Off: Gain is not adjusted when recording multiple exposures. Recommended when shooting against a dark background.

Take photographs.

Continue shooting until all exposures have been recorded; the ≡ icon will blink until shooting ends. If **On (single photo)** is selected, multiple



exposure shooting ends automatically when the first multiple exposure is complete; if **On (series)** is selected, multiple exposure shooting will only end when **Off** is selected for multiple exposure mode. The \blacksquare icon clears from the display when multiple exposure shooting ends.



Column: Dark Backgrounds

The following settings are recommended when shooting a multiple exposure against a dark background:

- Number of shots: 2–10
- Auto gain: Off
- Shooting speed: 5-7 fps
- Picture Control: Standard, Contrast +1
- Active D-Lighting: Off



Note Note

If **On** is selected for **ISO sensitivity settings** > **ISO sensitivity auto control** in the shooting menu, ISO sensitivity will be fixed at the value for the first shot in each multiple exposure.

Shooting Tips: Extended Menu Banks

To store exposure mode, shutter speed, and/or aperture in a shooting menu bank:



Choose On for Extended menu banks.

Choose On for Extended menu banks in the shooting menu.





Select a bank.

Use the **Shooting menu bank** option in the shooting menu to select a bank.



Adjust settings.

Adjust exposure mode, shutter speed, and aperture as desired. These settings will then be recalled whenever the hank is selected

Other combinations of exposure mode, shutter speed, and aperture can be stored in the remaining banks as long as On is selected for Extended menu banks; selecting Off for Extended menu banks restores all banks to the values in effect before **On** was selected.



Sample Settings for Different Subjects

Sample settings shown in parentheses are not stored in extended shooting menu banks.

Camera panned to blur background



Exposure mode **5** (f/22), 1/15 s, (ISO 200)

During match



Exposure mode M f/2.8, 1/1000 s, (ISO 1600)

Freeze frame



Exposure mode **5** (f/4), 1/1000 s, (ISO 200)

Team portrait



Exposure mode **R** f/8, (1/125 s), (ISO 1600)

Movie Tips: M-Mode Movies

Movies can be recorded in exposure mode M (manual).

Select Tripod for Live view mode. Select Live view mode in the shooting menu, highlight Tripod, and press ® or the center of the multi selector.





Select mode M.

Press the MODE button and rotate the main command dial to select mode n.



Choose a Picture Control and color space before starting live view.



Main command dial

3 Sta

Start live view.

Press the 🖬 button to start live view.



A Preview exposure.

Press ® to preview exposure in the monitor. Adjust shutter speed and aperture and check the results in the preview display.



- 🔪 Notes: Exposure Preview

Always use the exposure preview to adjust shutter speed and aperture. Changes to these settings may not be reflected in the live view display.

Exposure is set using matrix metering and can be adjusted by \pm 5 EV, although only values between –3 and +3 EV are reflected in the preview display. Note that the preview may not accurately reflect exposure at ISO sensitivities below ISO 200 or above ISO 12800, at shutter speeds slower than 1/25 s, or when an optional flash unit is attached, Active D-Lighting or bracketing is in effect, **x 25 a** is selected for shutter speed, or the subject is very bright or very dark. Exposure preview is not available when **back b** is selected for shutter speed.

-Tip

To prevent flicker, choose shutter speeds of 1/125 s, 1/60 s, or 1/30 s if the local AC power supply is 60 Hz, or 1/100 s, 1/50 s, or 1/25 s if the power supply is 50 Hz.



Focus.

Press the AF-ON button to focus. Note that focus can be improved by selecting small apertures (high fnumbers) for increased depth of field.



Start recordina.

Press the Pv button or the center of the multi selector to start recording.



Pv button

End recordina.

Press the **Pv** button or the center of the multi selector again to end recording.

Column: Ending with a Photo

To end recording and take a still picture in live view, press the shutter-release button all the way down. There may be a slight delay before the photo is taken. If On is selected for Image **review** in the playback menu, the photo will be displayed after shooting; press E to return to live view.

Exposure may differ from live view. Check exposure in the exposure preview before shooting.



Notes

If **On** is selected for **ISO** sensitivity settings > **ISO** sensitivity auto control in the shooting menu, ISO sensitivity will automatically be adjusted for optimal exposure at the shutter speed selected in the exposure preview. A **LIEO** icon in the monitor indicates that **On** is selected for **Movie settings** > **High-sensitivity movie mode**. **Off** is recommended in most situations. To switch quickly between normal ISO sensitivity and high-sensitivity movie mode, use My Menu.

Noise reduction is not available during movie recording.

If you exit live view while the exposure preview is displayed, the preview will be displayed the next time you start live view. Changes to settings in the exposure preview remain in effect when you exit live view.

AE Lock

AE lock can be used during exposure preview to lock exposure at the current value or to reduce variations in exposure. Assigning **AE lock (Reset on release)** or **AE lock (Hold)** to the **AF-ON, Fn, Pv**, or **AE-L/AF-L** button allows you to lock exposure while leaving your hands free for other tasks.

Changing Movie Settings

The **Movie settings** menu offers the following options. Adjust settings before recording.

Quality	Choose a frame size. ¹	
Microphone	Adjust microphone sensitivity. ²	
Destination	When using two memory cards, choose the card to which movies will be saved. ³	
High-sensitivity movie mode	If lighting is so poor that the subject is dif- ficult to see with the naked eye, choose On to shoot at ISO sensitivities of ISO 6400 to Hi 3. Select Off to shoot at ISO sensitivities between ISO 200 and ISO 12800.	

1 A frame size of **1280×720 (16:9)** is available only when **FX (36×24) 1.0×** is selected for **Image area**.

- 2 When an external microphone with its own sensitivity adjustment controls is attached, adjust sensitivity on both the microphone and camera. Note that the built-in microphone and monaural external microphones record only the left channel.
- 3 Movies will not be recorded to the remaining card even when the card in the selected slot is full. When two memory cards are inserted, photographs are recorded to the card in Slot 1; movies and photographs can be recorded to separate cards by selecting **Slot 2** for **Destination**.





Movie Tips: Movie Stills

Selected frames from movies can be saved as JPEG stills.



Display movie retouch options.

Display the movie in full-frame playback and press . The options shown at right will be displayed.







Select Save selected frame. Highlight Save selected frame and press [®].



Choose a frame.

Press the center of the multi selector to start or resume playback, \checkmark to pause, and \triangleleft or \triangleright to rewind or advance (pause to rewind or advance one frame at a time). With the movie paused on the desired frame, press \blacktriangle .



Notes ·

Stills are the same dimensions as the original movie frame and include the following Exif data: date of creation, date modified, file size, image size, aspect ratio, date of recording, camera name, lens name, color space, and a tag that identifies the image as a movie still when it is displayed in Capture NX 2 version 2.2.3 or later or View NX version 1.5.1 or later.

Movie stills can not be retouched or used as source images for white balance.

Tip

When recording movies with the intent of creating stills, shoot at high shutter speeds in exposure mode **5** or **n**. This will produce stills with relatively little blur.

Playback Tips: Histograms

The histogram in the playback photo information display shows only the data for the portion of the image selected for playback zoom.

Select RGB histogram for Display mode.

Select **Detailed photo info** > **RGB histogram** for **Display mode** in the playback menu and then highlight **Done** and press ⊗.



2 Display the RGB histogram page. Display the RGB histogram page in the playback photo information display.





Zoom in.

Press the ■ button and rotate the main command dial left or right to choose the size of the zoom frame, then release the button to zoom in on the selected area. Use the multi selector to scroll to other areas of the image.



Playback Tips: Photo Retouch

The ☑ (retouch) menu can be used to create retouched copies of existing photographs. To display the retouch menu, press the MENU button and select the ☑ tab. The following options are available: RETOUCH MENU
 Districts
 Ref-rev correction
 Ref-rev correction
 Trim
 M
 Trim
 M
 Tomochrome
 Dimetrificts
 Golor balance
 Ref
 M
 Rese overlay
 Ref
 Ref ReW processing
 M

- D-Lighting*
- Red-eye correction^{*}
- ₩ Trim
- Monochrome^{*}
- Filter effects*

🖏 🖉 Color balance *

🖻 Image overlay

- INEF (RAW) processing
- 🖿 Resize
- ■•□ Side-by-side comparison
 - 🛱 Edit movie

* Not available with photographs taken with **Monochrome** selected for **Set Picture Control**.

Note Most options can be applied to copies created using other retouch options, although with the exceptions of Image overlay and Edit movie > Choose start point/Choose end point each option can be applied only once. Images created with Save selected frame can not be retouched.

Button Tips: The Fn Button

Custom setting f4 (Assign Fn button) is used to choose the role played by the Fn button, either by itself (Fn button press) or when used in combination with the command dials (Fn button + command dials).



	Preview
	E FV lock
ed Assian En hutton	函 AE/AF lock
	虛 AE lock only
	🕼 👁 AE lock (reset on release)
	虛圖 AE lock (Hold)
En hutton press	🟚 AF lock only
Fn button + command dials	③ Flash off
Choose image area (default)	BKT Bracketing burst
ား 1 step spd/aperture	Matrix metering
Non-GPU Choose non-CPU lens	Center-weighted metering
number	Spot metering
[1] Focus-point selection	🗅 Virtual horizon
Stoon Shooting menu bank	Playback
[:] Dynamic AF area	Access top item in MY MENU
None	None (default)



🔪 Note

Most of the functions listed in the table on the previous page can also be assigned to the **Pv** and **AE-L/AF-L** buttons using Custom Settings f5 (**Assign preview button**) and f6 (**Assign AE-L/AF-L button**). Additionally, the **AE-L/AF-L** button can be assigned the **AF-ON** function. Note, however, that **Focus point-selection** can not be assigned to either the **Pv** or the **AE-L/AF-L** button, and that **1 step spd/ aperture** can not be assigned to the **AE-L/AF-L** button.

Quick Menu Access

Use the **Fn** button for quick access to a frequently-used menu item that you have assigned to the top item in My Menu.



Highlight Custom Setting f4
(Assign Fn button) in the Custom Settings menu and press
The options shown at right will be displayed.



2 Select Access top item in MY MENU. Select Access top item in MY MENU for Fn button press.





One-Handed Playback

Use the **Fn** button for playback when your left hand is busy supporting a telephoto lens, making the **E** button hard to press.



Select Custom Setting f4.

Highlight Custom Setting f4
(Assign Fn button) in the Custom Settings menu and press
▶. The options shown at right will be displayed.

Select Playback.

Select **Playback** for **Fn button press**.





Button Tips: Checking Focus

If **Zoom on/off** is assigned to the center of the multi selector, you can press the center of the multi selector to zoom in on the active focus point and check focus during playback or live view. Press the center of the multi selector again to cancel zoom.

Select Custom Setting f1. Highlight Custom Setting f1 (Multiselector center button) in the Custom Settings menu and press ►.



2 Select Zoom on/off.

Select Live view > Zoom on/ off to use the center of the multi selector to zoom in on the active focus point during live view, **Playback mode** > Zoom on/off to use the center



of the multi selector to zoom in on the active focus point during playback (including thumbnail playback). To choose from low, medium, and high zoom ratios, highlight **Zoom on/off** and press **▶**.



Using a GPS: GPS Timekeeping

To record GPS data with each photograph taken, connect a GPS device to the camera's ten-pin remote terminal. The camera clock can also be synchronized with the time provided by the GPS unit. The **GPS** item in the camera setup menu offers the following options:



- Auto meter off: Choose whether the exposure meters will turn off automatically while a GPS unit is connected.
- Position: View the latitude, longitude, altitude, Coordinated Universal Time (UTC), and heading (if supported) reported by the GPS device (the optional GP-1 GPS unit does not provide the compass heading).
- Use GPS to set camera clock: Select Yes to synchronize the camera clock with the time reported by the GPS device each time the camera is turned on. Select No to set the camera clock independently of the GPS device.

Lens Options: Vibration Reduction

The D3S supports vibration reduction (VR) with VR lenses. Turn vibration reduction off when shooting at fast shutter speeds. Other vibration reduction settings may result in slower frame advance rates and increased shutter lag.

The table on the following page lists the recommended settings for different subjects. **ACTIVE** and **TRIPOD** vibration reduction are available with the following lenses; other VR lenses support only **ON** and **OFF**:

ACTIVE

- AF-S DX NIKKOR 18-200 f/3.5-5.6G ED VR II
- AF-S VR Zoom-Nikkor ED 70-200 mm f/2.8G (IF)
- AF-S NIKKOR 70-200 mm f/2.8G ED VR II
- AF-S VR Zoom-Nikkor ED 200-400 mm f/4G (IF)
- AF-S VR Nikkor ED 200 mm f/2G (IF)
- AF-S VR Nikkor ED 300 mm f/2.8G (IF)
- AF-S NIKKOR 300mm f/2.8G ED VR II

TRIPOD

- AF-S NIKKOR 400 mm f/2.8G ED VR
- AF-S NIKKOR 500 mm f/4G ED VR
- AF-S NIKKOR 600 mm f/4G ED VR



VR mode	Suggested for	Not suggested for
	Moving subjects (e.g., shutter speeds of 1/500 s or faster)	
OFF		_
NORMAL (ON) ¹	 Stationary subjects Panning shots of moving subjects 	Subjects moving too fast to frame using panning
ACTIVE	Photographs taken from a car, boat, helicopter or other unstable platform.	Panning shots of moving subjects
TRIPOD	Photographs taken with a tripod. ²	Monopod or hand- held photography

- 1. Can be used both for hand-held shots and with a monopod.
- 2. Choose **NORMAL** when using the tripod as a monopod.

Lens Options: Long Lenses

The table below describes the focus modes available with the following lenses:

- AF-S NIKKOR 70-200 mm f/2.8G ED VR II
- AF-S NIKKOR 300mm f/2.8G ED VR II
- AF-S NIKKOR 400 mm f/2.8G ED VR
- AF-S NIKKOR 500 mm f/4G ED VR
- AF-S NIKKOR 600 mm f/4G ED VR

Mode	Description	
A/M Am Ma M (autofocus priority)	Choose when focusing primarily with autofocus. Manual focus will only be ac- tivated if the focus ring is rotated a large amount. Prevents manual focus from be- ing activated accidentally.	
M/A Am Ma M (autofocus with manual priority)	Manual focus is activated whenever the focus ring is used, making it easy to use manual focus in autofocus mode.	
(manual focus)	The lens can only be focused manually.	

Sharing Settings: Save/Load Settings

Select **Save/load settings > Save settings** in the setup menu to save current camera settings to the memory card in Slot 1 (if the memory card is full, an error message will be displayed). Saved set-



tings can loaded into any D3S camera using **Save/load** settings > Load settings, allowing the same settings to be shared among multiple cameras (note that Load settings is only available if the memory card in Slot 1 contains saved settings).



Computers: Computer Capture

Use optional Camera Control Pro 2 software to capture new pictures on a computer as they are being saved to the camera memory card.



Open the Storage tab.

Start Camera Control Pro 2 and click the **Storage** tab.





"PC + Card"

IPTC information and ICC profiles are not included in the pictures saved to the memory card. No pictures can be taken when no memory card is inserted, when the card is full, or while the card is being formatted. Insert another memory card or select **PC** for **Record to**.

The computer will display a warning if the destination for pictures captured to the computer is nearly full. Follow the on-screen instructions to choose another destination.



In addition to the options listed in these pages, the D3S offers the following new features and improvements:

	D3S	D3
Focus tracking with lock-on	5 levels	3 levels ¹
ISO sensitivity	200-12800	200-6400
EV steps above max. ISO sensitivity (ISO equivalent)	Hi 0.3–3 (ISO 102400)	Hi 0.3–2 (ISO 25600)
Quiet shutter-release mode	~	_
Active D-Lighting	4 levels + Auto	3 levels
ADL bracketing	~	
Camera clock can be synchronized with GPS unit	>	2
EV steps for ISO sensitivity auto control > Maximum sensitivity	1/3 EV	1 EV ³
Fn button can be used to select num- ber of points for dynamic-area AF	V	2
Fn button can be used for playback	~	2

1 Five levels supported from firmware version 2.02.

2 Supported from firmware version 2.02.

3 1/3 EV steps available from firmware version 2.02.



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