

Index

Symbols

- 4K motion picture recording 197
 - requirement of high-speed memory card for 5
- 4K Photo option (Motion Picture menu) 120, 196–197, 230
 - inability to capture still images 197
 - requirement of UHS speed class 3 memory card 120, 197, 230
- 35mm-equivalent focal length 9–10, 50

A

- A button 90
 - setting to require longer press of button 90, 181
- A Button Switch menu option 90, 181
- AC adapter
 - Panasonic model no. DMW-AC10 222
- Adobe Lightroom software 47, 52
- Adobe Photoshop software 61
 - using for HDR photography 120
- Adobe Premiere Elements software 23
- Adobe Premiere Pro CC software 202
- AF/AE Lock button 127
 - incompatibility with certain settings 127
 - using to cause camera to autofocus 161
- AF/AE Lock Hold menu option 161–162
- AF/AE Lock menu option 127, 160
- AF assist lamp 163–164
 - operation as self-timer lamp 164
- AF Assist Lamp menu option 163–164
- AF Macro focus option 216
- AF + MF menu option 165
- AF Mode/MF option 134
 - AF Mode setting 109–115
 - 1-Area 114–115
 - 49-Area 111–112
 - AF Tracking 110
 - Custom Multi 112–114, 231
 - Face/Eye Detection 109–110
 - switching to different face 110
 - moving the focus frame or focus area 115
 - options available in Snapshot mode 109
 - Pinpoint 115–116, 163
 - AF-On menu option 161
 - AFS/AFF/AFC menu option 16–17, 53
 - AFS/AFF/AFC option (Motion Picture menu) 195, 199
 - Aperture Priority mode 34–36
 - Aperture ring 86
 - Aperture values
 - range of 36, 41, 86
 - Aspect Bracket option 121–122
 - incompatibility with other settings 122
 - Aspect ratio 84
 - cropping of pixels for each setting 48, 84–86
 - relationship to Picture Size 48–49
 - Aspect ratio switch 84
 - Astrophotography 218–219
 - Audio recorders, external
 - Shure VP83F 229
 - Tascam DR-40 229
 - Tascam DR-100mkII 229
 - Zoom H1 229
 - Zoom H6 229
 - Audio-video cable
 - Panasonic model no. DMW-AVC1 10
 - Auto Bracket option 55–56, 120–121
 - incompatibility with other settings 121
 - setting order of shots 56, 121
 - setting single or burst mode 56, 121
 - using for HDR photography 120–121
 - Auto Exposure Compensation menu option 73, 90
 - using with flash 73
 - Autofocus mode
 - selecting single or continuous autofocus 53
 - Auto ISO setting 75–76

using with Manual exposure mode 40, 230
 Auto Review menu option 136, 176–177
 Auto White Balance setting 103

B

Baby
 setting up profile with name and age 81–82
 Backlight compensation 28
 Battery, model no. BP-DC15 222
 charging 4
 inserting into camera 4–5
 replacement version by Wasabi 222
 Beep menu option 184
 Blurred background
 how to achieve 35–36
 Burst Rate menu option 55
 Burst shooting 117–120
 effect of using fast memory card 119
 high (H) setting 118
 incompatibility with other settings 120
 low (L) setting 119
 medium (M) setting 119
 super-high (SH) setting 117
 playback of images 118
 using 4K Photo menu option for burst shooting 120, 230

C

Calendar index screen of images 137
 Canon 430 EX II flash unit
 using with D-Lux camera 68
 Cases
 BlackRapid SnapR 35 221–222
 Eagle Creek waist pack 222
 Leica leather, no. 18821 221
 Celestron Regal 80F-ED spotting scope
 connecting to D-Lux camera using adapter rings 219
 Clock Set menu option 183–184
 Color Space menu option 78
 Color temperature 103
 Kelvin values for various light sources 103
 Color tone adjustment for monochrome setting 46

Constant Preview menu option 40–41, 134, 172–173
 Continuous AF option (Motion Picture menu) 195, 199, 200
 Continuous lighting LED light 227–228
 Contrast
 adjusting 45
 Control dial
 uses of 102
 Control ring 86
 functions controlled by 86–87, 178–179
 Control Ring menu option 179
 Controls on back of camera 8
 Controls on bottom of camera 11
 Controls on front of camera 9
 Controls on left side of camera 10
 Controls on right side of camera 10
 Controls on top of camera 7–8
 Cropping menu option 151, 231
 Cursor Button Lock option for Function button 134
 Custom menu
 in general 157
 Custom Set Memory menu option 158–159
 settings that can be saved 158

D

Date and time
 displaying on camera's screen 130
 setting 11–12, 183–184
 DC Coupler
 Panasonic model no. DMW-DCC11 222
 Delete Confirmation menu option 155
 Depth of field 35–36
 Dial Guide menu option 174–175
 differences between viewfinder and LCD 129
 Diffraction effect 35
 Digiscoping 219
 Digital Zoom menu option 78–79
 incompatibility with other settings 78
 Digital Zoom option (Motion Picture menu) 200
 Diopter adjustment dial 101
 Direct Focus Area menu option 164
 incompatibility with Filter button effects 164

- using with manual focus 164
- Display button
 - uses of 127, 130
 - using to navigate quickly through menu screens 43, 130, 231
- Display screens produced by pressing Display button
 - playback mode 129–130
 - recording mode 127–129
- Down button
 - uses of 116, 126
- DPOF (Digital Print Order Format) 153
- Drive Mode 116–126
 - turning off all burst shooting 116

E

- Electronic shutter
 - using 67–68
- Enlarging images in playback mode 137
- EV (exposure value) scale
 - in Manual exposure mode 40
- EVF button
 - using to switch between viewfinder and monitor 101
- EVF Display Style menu option 174
- EVF/Monitor Switch menu option 101, 181
- Exposure compensation
 - not available with Manual exposure mode 90
 - procedure for using 18
- Exposure compensation dial 89–90
- Exposure Meter menu option 173
- Extended ISO menu option 76
- Extended Optical Zoom feature 49–50
- Eye sensor 101
- Eye Sensor AF menu option 101, 162
- Eye Sensor menu option 101, 163, 181–182

F

- Face Detection option. See also AF Mode setting
 - relationship to Metering Mode option 55
- Face Recognition Edit menu option 155
- Face Recognition menu option 79–80
- Favorite menu option 153–154

- Fill-flash. See Forced On setting for flash
- Filter button
 - using to activate picture effects 90
- Filter button picture effects 59, 90–101
 - Bleach Bypass 98
 - Cross Process 96–97
 - Dynamic Monochrome 94
 - Expressive 92
 - Fantasy 99
 - High Dynamic 96
 - High Key 93
 - Impressive Art 96
 - incompatibility with other settings 92, 204, 231
 - Low Key 93
 - making adjustments to effects 91
 - Miniature Effect 98–99
 - using for motion pictures 99, 204
 - Monochrome 94
 - No Effect setting 90
 - Old Days 93
 - One Point Color 100–101
 - Retro 92–93
 - Rough Monochrome 95
 - Sepia 94
 - Silky Monochrome 95
 - Soft Focus 99
 - Star Filter 99
 - Sunshine 101
 - Toy 97
 - Toy Pop 97
 - using when shooting panoramas 92
 - various displays of effects menu 90–91
- Filter effect adjustment for monochrome setting 46
- Filters
 - attaching to lens of D-Lux camera 224
- Final Cut Pro software 202
- Firing Mode menu option 69–70
- Firmware
 - displaying version of 188
 - upgrading 189
- Flash
 - general procedure for using 19

Flash Adjustment menu option 72
 Flashing areas in playback mode 171
 Flash menu option 68–76
 Flash Mode menu option 70–72
 Flash Synchro menu option 71–72
 Flash units, external
 Leica CF-22 69, 71, 225
 LumoPro model no. LP180 226
 Panasonic model no. DMW-FL220 225
 Panasonic model no. DMW-FL580L 226
 Yongnuo YN-560 III 226
 Flash unit supplied with D-Lux camera 69
 diffusing light from 230
 Focal length of lens 9
 Focus Area Set option for Function button 134
 Focus frame
 moving 115, 164
 Focus mode
 selecting 15–17, 87
 Focus range 87, 216
 Focus/Release Priority menu option 120, 164–165
 relationship to burst shooting 165
 Focus switch 87
 Forced Off setting for flash 71
 Forced On setting for flash 70–71
 Forced On with Red Eye setting for flash 70
 Format menu option 190
 Function buttons
 assigning functions to 132–135, 177–178
 Fn1 button
 other uses of 131
 using as Cancel button 131
 using to delete images 130–131
 Fn2 button
 uses of 131
 using as Wi-Fi button 131–132
 Fn3 button
 using as LVF button 132
 in general 130
 Function Button Set menu option 177–178

G

Geotagging 141–144
 GPS data
 adding to images 141–144
 Guide Line menu option 170

H

Half-Press Release menu option 162–163
 HDMI Mode menu option 187
 HDMI output
 lack of in recording mode 2
 HDR (high dynamic range) photography 39–40, 60, 60–61
 using Auto Bracket option for 120–121
 HDR menu option 60–62
 HDTV Link menu option 187
 Highlight menu option 171
 Highlight Shadow menu option 56–57
 Highlight Shadow option (Motion Picture menu) 200
 Histogram menu option 168–170
 Hoya R72 infrared filter 217

I

iHandheld Night Shot menu option 59–60
 iHDR menu option 60
 Image sensor
 cropping of images from 48
 iMovie software 23
 Index screens of images 136–137
 Infrared photography 217–218
 Intelligent Dynamic (i.Dynamic) menu option 57
 Intelligent Dynamic option (Motion Picture menu) 200
 Intelligent ISO 75–76
 incompatibility with other settings 38, 75
 Intelligent Resolution (i.Resolution) menu option 58–59
 use in connection with Intelligent Zoom option 78
 Intelligent Resolution option (Motion Picture menu) 200
 Intelligent Zoom (i.Zoom) menu option 78
 incompatibility with other settings 78
 Intelligent Zoom option (Motion Picture menu) 200
 Internal memory
 lack of with D-Lux camera 5
 ISO

- effects of high setting on image quality 76
- procedures for setting 74–76
- range of settings 74
- setting value below 200 76

ISO Increments menu option 76

ISO Limit Set menu option 75–76

- not applicable for video recording 204

J

JPEG image format 29

K

Kelvin units 103

L

Language for menus 188

- setting 12

Language menu option 188

LCD Display (Monitor)

- adjusting brightness and colors 185

Left button

- uses of 109–110, 116

Leica D-Lux Typ 109 camera

- advantages of 1
- disadvantages of 2
- items that ship in box 3

Leica Image Shuttle app 141, 208

- using for remote control of camera 212–213, 231
- using to transfer images or videos from camera to device 213–215

Lens

- automatic retraction of 127

Lens cap

- attaching to camera with lens cap string 3
- automatic 3
 - JJC version 227
 - Leica model no. 18 548 227
 - Panasonic model no. DMW-LFAC1 227

Live View Mode menu option 185

Location Logging menu option 141–144

Locking controls 134

Locking exposure 54

Lomography 97

Long Shutter Noise Reduction menu option 77

M

Macro photography 215–217

- minimum focusing distance 216

Manual exposure mode 38–40

- using Auto ISO setting with 40
- viewing effects of settings in 40

Manual Flash Adjustment menu option 69, 73

Manual focus 16–17

- aids to focusing 116
- options for magnifying screen 165–166
- using along with autofocus 165

Meade ETX-90/AT telescope 218

Mechanical shutter

- using 67

Memory card

- capacity for storing images and videos 6
- capacity for storing motion pictures 6
- formatting 190
- inserting into camera 7
- speed of 5, 7
- various types of 4

Menu Information menu option 187

Menu Resume menu option 42, 187

Menus

- dimmed appearance of unavailable options 44
- list of 42
- navigating in 43, 231

Menu/Set button

- uses of 126

Metering Mode menu option 53–55

- moving Spot metering frame 54

Metering Mode option (Motion Picture menu) 200

MF Assist Display menu option 166

MF Assist frame

- activating 116

MF Assist menu option 116, 165–166, 219

- incompatibility with other settings 167

- MF Scale menu option 167
 - Micro HDMI cable
 - using to connect camera to HDTV 187
 - Microphone
 - built-in 8
 - Microphone Level Adjustment option (Motion Picture menu) 200
 - Microphone Level Display option (Motion Picture menu) 200
 - Monitor Display menu option 185
 - Monitor Display Style menu option 174
 - Monitor Information Display menu option 175–176, 224
 - Monitor Luminance menu option 185–186
 - Monochrome Live View menu option 172
 - Monochrome setting for Photo Style
 - adjusting parameters for 46
 - using with Quality set to Raw 46–47
 - Moon
 - photographing through telescope 218–219
 - Motion Picture button 126
 - disabling use of 126, 181
 - Motion Picture menu 195, 195–201
 - interaction of options with those on Recording menu 195
 - limited options in Snapshot mode 195
 - Motion picture recording
 - capturing still images during recording 199–200
 - effects of physical controls 202–205
 - effects of recording mode on
 - Aperture Priority mode 193
 - Manual exposure mode 194
 - inability to use Auto ISO 194
 - Program mode 193
 - Shutter Priority mode 194–195
 - focus options with 194
 - general procedure 20–21
 - general recommendations 205
 - limits on duration of recordings 6, 191
 - producing fade-in or fade-out effect 194
 - quick start guide 192
 - range of shutter speeds available 194–195
 - using external microphones 201
 - Motion pictures
 - editing in camera 149–150, 205–206
 - editing with computer 207–208
 - saving still frame from 23
 - MP4 video format
 - location of files on memory card 207
 - Multiple Exposure menu option 63–65
- ## N
- NFC active area on camera 10
 - NFC (near field communication) 210
 - Noise reduction
 - adjusting 45
 - NTSC video standard 191
 - Number Reset menu option 189
- ## O
- On/Off switch 89
 - Optical slave flash unit
 - using with D-Lux camera 226
- ## P
- PAL video standard 191
 - Panasonic DMW-FL220 flash unit
 - using with D-Lux camera 69
 - Panorama Direction menu option 67, 124
 - Panoramas 123–125
 - incompatibility with other settings 124
 - sizes of images 124
 - PASM modes 25
 - Peaking menu option 167–168
 - Pet
 - setting up profile with name and age 81–82
 - PhotoAcute software 120
 - Photomatix Pro software 62, 120
 - Photo Style menu option 44–48
 - adjusting parameters for 45–46
 - chart of sample images 47
 - descriptions of settings 47
 - saving a custom setting 47–48
 - Photo Style option (Motion Picture menu) 196
 - Picture Mode option (Motion Picture menu) 199–200
 - Picture Size menu option 48–50

availability when shooting with Raw & JPEG 49
relationship to zoom range 49–50

Picture Sort menu option 155

Pinpoint AF Display menu option 115–116, 163

Pinpoint AF Time menu option 115, 163

Playback

burst taken with SH setting 118

motion pictures 205

adjusting volume 23, 205

basic procedures 23–24

still images

basic procedures 21–22, 136

Playback button 127, 136

Playback menu

in general 137

Playback Mode menu option 140

Preview option for Function button 133–134, 173

Printing images from camera 153

Print Set menu option 153

Profile Setup menu option 81–82

Program mode 31–33

Program Shift 33–34

Protect menu option 154

Q

Quality menu option 51–52

Quick AF menu option 162

Quick Menu 81–82

customizing settings on 180–181

using with Monitor Information Display screen 82, 175

Quick Menu button 127

Quick Menu menu option 83, 180–181

QuickTime software 23

R

Raw images

converting to JPEG in camera 144–147

Raw & JPEG option 52

Raw Processing menu option 144–147, 231

Raw setting for Quality

advantages and disadvantages of 51

effect on Photo Style setting 46–47

incompatibility with other settings 44, 49, 51, 92, 231

.rwl extension of image files 52

size of Raw image files 52

Rear-curtain flash. See Flash Synchro menu option

Recording Area menu option 175

Recording menu

in general 42–44

limited options in Snapshot mode 43

navigating in 43

Recording modes

list of 25

Red eye effect 70, 73

Red-eye Removal menu option 73

Remaining Display menu option 176–177

Remote control of camera by smartphone or tablet 213–214,
231

Reset menu option 189

Reset Wi-Fi Settings menu option 189

Resize menu option 150, 231

Restore to Default option for Function buttons 135

Right button

uses of 103, 109

Rotate Display menu option 152

Rotate menu option 152–153

S

Saturation

adjusting 45

Scene detection 27–28

SD card

capacity of 5

SDHC card

capacity of 5

SDXC card

capacity of 5

Second-curtain flash. See Flash Synchro menu option

Sekonic Prodigy color temperature meter 105

Self-timer 122–123

illumination of AF assist lamp with 164

incompatibility with other settings 123

Self Timer Auto Off menu option 123, 189
Self-timer menu option 56
Setup menu
 in general 182
Sharpness
 adjusting 45
Shutter AF menu option 161
Shutter button 88
Shutter sound
 selecting 184
Shutter speed dial 89
Shutter speeds
 effect of for stopping action or blurring motion 37
 range of 34, 36, 41, 67
 setting intermediate values 37–38, 89
Shutter Type menu option 67–68
Silent Mode menu option 68, 160
Simultaneous Record w/o Filter menu option 59, 90
Sleep Mode menu option 89, 186
Slide Show menu option 138–140
Slow Sync setting for flash 70–71
Snapshot mode 27–31
 AF Mode settings available in 109
 Recording menu settings available in 28–31
 settings automatically activated in 27
 settings that cannot be adjusted in 27, 45, 55, 68, 72, 75
Softbox
 Photoflex Lite-Dome XS 226
 using to diffuse light from external flash 226
Sounds of camera
 silencing 160, 184
Spot metering
 moving frame around display 54, 230
Stabilizer menu option 79
Step-by-step guides
 adding GPS data to images 141–143
 basis picture taking 13–15
 connecting to device by Wi-Fi with NFC 210–212
 connecting to device by Wi-Fi without NFC 208–210
 creating Custom Multi autofocus frame 112–113
 preliminary steps before taking pictures 26
 quick start for motion picture recording 192

 saving still image from 4K video 207
 saving still image from video 206–207
 splitting video into 2 segments 205
 using external microphones for video recording 201
Step zoom 87, 178–179, 224
 using with zoom lever 87
Stop Motion Animation menu option 66–67
Stop Motion Video menu option 150
Street photography 219–220

T

Tables
 effects of physical controls for video recording 202–203
 numbers of images stored on 32 GB card 6
 options that can be assigned to Function buttons 132, 178
 recording modes of the D-Lux 25–26
 results of burst shooting tests 119
 shutter speed equivalents 38
 suggested settings for Snapshot mode 31
Tascam DR-100mkII audio recorder 202, 229
Telescope
 attaching D-Lux camera to with adapter rings 218
Text
 adding to images 147–148
Text Stamp menu option 148–149
Time exposure 88
 procedure for setting 40
Time Lapse Shot menu option 64–65
Time Lapse Video menu option 150
Time zone
 setting different one for travel 183
Title Edit menu option 147–148
Travel Date menu option 183–184
T setting for shutter speed 40, 89–92
TV Aspect menu option 187
TV Connection menu option 187

U

Up button
 uses of 102–103
USB Mode menu option 186–187

Utilize Custom Set Feature menu option 158–159, 230
assigning to Function button 159

V

Version Display menu option 188
Video Button menu option 126, 181
Video Divide menu option 149–150
Viewfinder 101
adjusting brightness and colors 185
adjusting for vision with diopter adjustment dial 101
switching view with LCD screen 101, 181
Viewfinder menu option 185
Viewfinders, optical
Panasonic model no. DMW-VF1 223
Voigtlander 28mm model 223

W

White Balance 103–108
adjusting in Raw processing software 107
available settings 104–106
chart of images with various settings 107–108
fine-tuning with color axes 106–107
setting by color temperature 105–106
setting custom value 104–105
White Balance bracketing 107–108
incompatibility with other settings 109
Wi-Fi connection lamp 132
Wi-Fi connection to smartphone or tablet
establishing 208–212
Wi-Fi menu option 184
Wind Cut option (Motion Picture menu) 201
Windows Movie Maker software 23
Wireless flash trigger
CowboyStudio model no. PT-04 226
World Time menu option 183

Z

Zebra Pattern menu option 171–172
Zoom lever 88–89
using to enlarge image in playback mode 137
using to navigate quickly through menu screens 43, 89, 231

using with step zoom 87
Zoom Lever menu option 178–179
Zoom range
relationship to Picture Size setting 49–50
Zoom Resume menu option 180–181