

Index

NUMERICS

14-bit color, 146
14mm f/2.8L lens, 82, 89, 96, 193, 209
16-35mm f/2.8L II zoom lens, 92
17-40mm f/4.0L zoom lens, 92
17mm TS-E lens, 191, 193
24-70mm f/2.8L zoom lens, 92–96, 160–161
24mm f/1.4L lens, 96
24mm TS-E lens, 90–92, 96, 191, 209
35mm f/1.4L lens, 88–89, 96, 159–160, 163
45mm TS-E lens, 96
50mm f/1.2L lens, 86–87, 89, 95–96, 158, 209
50mm f/1.4L lens, 86–88
50mm f/2.5 Compact Macro lens, 96, 101
70-200mm f/2.8L II IS zoom lens, 93, 97–98
70-200mm f/4L zoom lens, 93, 158
85mm f/1.2L lens, 85–87, 89, 95–96, 158–159, 209
90mm TS-E lens, 91–92, 159–160
135mm f/2.0L lens, 96, 209
200mm f/2.0L lens, 96–100, 160, 209
220EX Speedlite, 104
430EX II Speedlite, 107–108
430EX Speedlite, 110, 114, 116–117
580EX II Speedlite, 106–107, 117–118

A

A (Aperture Priority) mode, 6, 247
Adjusting On Camera or Flash mode, 55
adjustments, Capture One Pro 4.6, 71
Adobe Camera Raw, 232–233
Adobe Lightroom 2.0, 76–77
Adobe Lightroom 2.2, 231–232
Adobe Photoshop
 HDR image, 54–55
 inverting images, 210
 Merge to HDR feature, 207–208
 optical correction tools, 200–201
 post-processing, 212
advertising photography
 advantages, 143–147
 avoiding downtime, 147–148
 lenses, 149–151
 limitations, 143–147
 post-production work, 151–152

 processing, 151–152
 tethered shooting, 148–149
AE (Automatic Exposure) lock, 10, 247
AE Lock/Reduce button, 9, 10, 11
AF (Autofocus)
 advantages of, 194
 AF point disp option, 30
 AF Point Selection/Magnify button, 10
 AF-Drive button, 6–8
 defined, 247
 focus points, 4
AF lock, 247
AF Microadjustment, 48
AF point disp option, Playback menu 2, 30
AF Point Selection/Magnify button, 9, 10
AF Start button, 9–10
AF Stop buttons, Canon 200mm f/2.0L lens, 100
AF-Drive button, 6–8
AF-MF switch, Canon 200mm f/2.0L lens, 99
AI focus mode, 7
AI Servo Auto Focus mode, 46–47
air blower, 219
ALPA 12 MAX/Phase One P45+, 197
antistatic brush, 220
Aperture 2, 233–234
Aperture 2.2, 70
Aperture Priority (A) mode, 6, 247
Aperture Value (AV), 247
Achromatic Optics (APO), 84
AppleJack program, 78
Apply command, Custom Functions menu, 40
Arca Cube, 199
architectural photography
 Jon Roemer, 195–197
 overview, 191–194
 post-processing work, 200–202
 requirements of, 189–191
 techniques, 198–200
Arctic Butterfly brush, 220
Arri 18000 watt HMI Fresnel, 137
aspect-ratio frame lines, 18
Auto power off option, Set-up menu 1, 31
Auto Reset setting, Set-up menu 1, 32
Auto rotate option, Set-up menu 1, 32–33, 76
Auto switch media option, Set-up menu 1, 31
auto-exposure bracketing, 8

Autofocus (AF)
 advantages of, 194
 AF point disp option, 30
 AF Point Selection/Magnify button, 10
 AF-Drive button, 6–8
 focus points, 4
 specifications, 236–237

Automatic Exposure (AE) lock, 10, 247

automatic flash exposure sensor, 580EX II
 Speedlite, 106–107

Automatic Focus mode, 47–48

Automatic Focus point selection, 46

Automatic White Balance (AWB), 23, 60, 247

AV (Aperture Value), 247

available light, 123–127, 162–164

Average flash mode, 55

AWB (Automatic White Balance), 23, 60, 247

B

baby photography, 164–165

back view of camera, 9

background, seamless, 166

backups, equipment, 44, 148

barrel distortion, 84, 190, 247

Basic Settings drop-down menu, EOS Utility, 71–73

battery
 extended life, 4
 importance of charging, 219, 222
 life, 217
 rechargeable, 140–141

battery generators, 128

Battery info option, Set-up menu 2, 33–34

battery level indicator, 16

battery pack, 105–106

battery unit, 140–141, 184

beauty dish, 129, 131

beauty photography, 168–171

Beep option, Shooting menu 2, 28

bit depth, 248

black-and-white images, 25, 62, 164

blimped generator, 141

bokeh, 85, 248

bottom-right buttons, 12

bounce light, 248

bracketing
 auto-exposure, 8
 defined, 248
 exposure, 52–54
 White Balance, 24

brightness histograms, 30

budget, lighting, 122

buffer, 248

build quality
 430EX II, 107
 lens, 85, 94

Bulb drive mode setting, 6, 56, 248

burst buffer, 4

burst rate, 62

C

cable release, 56–57

calibrating
 battery, 33–34
 lenses, 222–225

camera case, 242–243

Camera Control window, EOS Utility, 73

camera profile, 248

Camera Raw, 232–233

Canon 135mm f/2.0L lens, 96, 209

Canon 14mm f/2.8L lens, 82, 89, 96, 193, 209

Canon 16-35mm f/2.8L II zoom lens, 92

Canon 17-40mm f/4.0L zoom lens, 92

Canon 17mm TS-E tilt shift lens, 191, 193

Canon 200mm f/2.0L lens, 96–100, 160, 209

Canon 24-70mm f/2.8L zoom lens, 92–96, 160–161

Canon 24mm f/1.4L lens, 96

Canon 24mm TS-E lens, 90–92, 96, 191, 209

Canon 35mm f/1.4L lens, 88–89, 96, 159–160, 163

Canon 45mm TS-E lens, 96

Canon 50mm f/1.2L lens, 86–87, 89, 95–96, 158, 209

Canon 50mm f/1.4L lens, 86–88

Canon 50mm f/2.5 Compact Macro lens, 96, 101

Canon 5DII, 58

Canon 5DmkII, 58

Canon 70-200mm f/2.8L II IS zoom lens, 93, 97–98

Canon 70-200mm f/4L zoom lens, 93, 158

Canon 85mm f/1.2L lens, 85–87, 89, 95–96, 158–159, 209

Canon 90mm TS-E lens, 91–92, 159–160

Canon Digital Photo Professional, 228–229

Canon Ec-S Super Precision Matte screen, 48

Canon Extension Tube 12 II, 101

Canon Extension Tube EF 25 II, 101

Canon L fast lenses, 177

Canon L lenses, 85–88, 149–151

Canon L zoom lenses, 81–83, 92, 150

Canon off-camera shoe cord OC-E3, 105

Canon Professional Services (CPS), 225–226

Canon repair center, 225

Canon software
 RAW files, 25
 for tethered shooting, 71–74

Canon Speedlites
 430EX, 107–108
 430EX II, 107–108
 580EX II, 106–107

add-on modifiers for
 Gary Fong Lightsphere, 111
 Lumiquest Big Bounce, 111–112

- portable ring lights, 112–113
- Sto-Fen modifier, 112
- exposing with
 - considerations, 109
 - E-TTL II, 110
 - FEL button, 110–111
 - manual exposure, 111
- overview, 103–106
- remote triggering with, 115–118
- specifications, 237
- using in various lighting situations
 - daylight, 113–114
 - dim interiors and exteriors, 115
 - low light, 115
- Canon's Remote Switch RS-80N3, 56
- Capture Integration, 77
- Capture One Pro 4.6
 - overview, 229–230
 - tethered shooting, 70–71
- Capture subfolder, 70
- captured image rotation, 76
- cards
 - CF
 - backing up, 27, 178
 - Function button, 11–12
 - loading camera settings to, 34
 - recording options, 31
 - slot for, 14
 - tethered shooting, 75–76
 - dual, 217
 - format, 29
 - gray, 249
 - memory
 - JPEG files, 15–16
 - RAW files, 14–15
 - sRAW files, 14–15
 - SD
 - backing up, 27, 178
 - Function button, 11–12
 - loading camera settings to, 34
 - recording options, 31
 - slot for, 14
 - tethered shooting, 75–76
- catalog work, 169
- catch light, 126–127
- catchlight panel, 580EX II Speedlite, 106
- CCD (Charged Coupled Device), 248
- Center-Weighted Average metering mode, 51
- central processing unit (CPU), 75
- CF (CompactFlash) cards
 - backing up, 27, 178
 - Function button, 11–12
 - loading camera settings to, 34
 - recording options, 31
 - slot for, 14
 - tethered shooting, 75–76
- Complementary MetalOxide Semiconductor (CMOS), 248
- compressed blower, 219–220
- C.Fn I - Exposure option, 36, 52–53
- C.Fn II - Image/Flash Exposure/Display option, 37
- C.Fn II-1 - Long exposure noise reduction setting, 57
- C.Fn II-2 High ISO Speed Noise Reduction setting, 58
- C.Fn III - Auto Focus/Drive option, 37–38
- C.Fn III-16: Continuous Shooting Speed setting, 56
- C.Fn III-6 menu, 100
- C.Fn IV, Item 11-Focusing Screen setting, 48
- C.Fn IV - Operation/Others option, 39–40
- C.Fn setting register/apply menu item, 40–41
- Charged Coupled Device (CCD), 248
- checklists, equipment, 44
- child photography, 164–166
- chromatic aberration, 190, 248
- cleaning sensor
 - dust spots, 28
 - EOS Integrated Cleaning system, 218–219
 - manual, 219–221
 - self-cleaning, 4
 - Set-up menu 3, 35
 - ultrasonic, 217
- Clear all camera settings option, Set-up menu 3, 35
- Clear All Custom Functions menu item, 40
- Cloudy WB setting, 60
- CMOS (Complementary MetalOxide Semiconductor), 248
- CMYK (Cyan, Magenta, Yellow, and Black), 146, 248
- CO2 Duster, 220
- color balance, 248
- color cast, 248
- Color Editor, Capture One Pro 4.6, 71
- color graduated filters, 211
- color noise, 58
- color rendition, lens, 85
- Color space option, Shooting menu 1, 24
- color temperature
 - defined, 248
 - fluorescent light, 60–61
 - JPEGs, 16, 205
 - planning lighting setup, 122
 - RAW processors, 228
 - RAWs, 16, 205
- color-palette, 24
- Compact Battery Pack CP-E4, 105–106
- CompactFlash (CF) cards
 - backing up, 27, 178
 - Function button, 11–12
 - loading camera settings to, 34
 - recording options, 31
 - slot for, 14
 - tethered shooting, 75–76

compression settings, JPEG, 27
 Confirm Settings command, 41
 Continuous setting, 32
 continuous shooting, 4
 contrast, defined, 249
 contrast, lens, 84
 contrast range, exposure, 121
 controllability, strobes, 128
 corporate events
 challenges and limitations, 179, 186–187
 overview, 176
 covers, port, 12–13
 CPS (Canon Professional Services), 225–226
 CPU (central processing unit), 75
 cultural considerations, corporate event, 187
 Custom Functions menu
 200mm f/2.0L telephoto lens, 100
 C.Fn setting register/apply menu item, 40–41, 52–53
 Clear All Custom Functions menu item, 40
 overview, 22, 35–40
 Custom WB registration option, Shooting menu 1, 23–24
 Custom White Balance, 23–24, 60
 customization specifications, 238
 Cyan, Magenta, Yellow, and Black (CMYK), 146, 248

D

Date/Time option, Set-up menu 2, 33
 Daylight WB setting, 60
 Dedolights, 138–140
 Delete all items option, My Menu settings, 41
 Delete option, My Menu settings, 41
 depth of field, 194
 Depth of Field button, 108
 Destination folder, Preferences window, EOS Utility, 73
 Diffractive Optics (DO), 84
 Digic IV processor, 4
 Digital Photo Professional (DPP), 69, 71, 74
 Digital Print Order Format (DPOF), 249
 digital technician, 77
 Digital terminal, 13
 dimension specifications, 239
 direct printing specifications, 238
 Display from My Menu option, My Menu settings, 41
 Distance Range, Canon 200mm f/2.0L lens, 99
 distortion, lens, 84, 190
 Diva-Lites, 134–137, 162
 DO (Diffractive Optics), 84
 downloading, image, 29–30
 DPI (Dots Per Inch), 249

DPOF (Digital Print Order Format), 249
 DPP (Digital Photo Professional), 69, 71, 74
 drive modes
 Bulb drive mode setting, 6, 56–57, 248
 High speed continuous, 56
 Low speed continuous, 56
 Silent single, 56
 Single, 56
 drive system specifications, 237
 dual cards, 217
 Dual Digic III Image Processor, 4
 Dust Delete Data option, Shooting menu 2, 28
 Dust Delete file, 28
 DxO Optics Pro, 200
 dynamic range, 180

E

Ec-S Super Precision Matte screen, Canon, 48
 editorial photography
 advantages, 143–147
 avoiding downtime, 147–148
 lenses, 149–151
 limitations, 143–147
 post-production work, 151–152
 processing, 151–152
 tethered shooting, 148–149
 educational events, 176, 179, 186
 EF (Electronic Focus) extenders
 EF 1.4x II extender, 96, 98
 overview, 100–101
 EF (Electronic Focus) lenses, 81, 84
 85mm f/1.2L lens, 85–87, 89, 95–96, 158–159, 209
 Electronic Focus (EF) extenders
 EF 1.4x II extender, 96, 98
 overview, 100–101
 Electronic Focus (EF) lenses, 81, 84
 Elinchrom Maxisoft reflector, 130–131
 Elinchrom Octa, 183
 Elinchrom Octabank, 129
 Elinchrom Ranger RX-AS, 141, 184
 emotional response, eliciting, 190
 Enlarge display option, Playback menu 2, 31
 EOS Integrated Cleaning system, 218–219
 EOS Utility, 69, 71–74, 76–77
 equipment
 backups, 44, 148, 179
 from camera dealers, 77
 cases for, 241–245
 checklists, 44
 extra, 245
 troubleshooting, 148
 Erase button, 9, 11, 29
 Erase images option, Playback menu 1, 29
 erasing images, 12

- E-TTL II (Evaluative Through the Lens) Autoflash, 55, 110, 111
 - E-TTL II function, 580EX II Speedlite, 106
 - E-TTL II Wireless Autoflash mode, 56
 - Evaluative flash mode, 55
 - Evaluative metering mode, 50
 - Evaluative Through the Lens (E-TTL II) Autoflash, 55, 110, 111
 - event photography
 - challenges and limitations, 179–180
 - considerations, 173–178
 - corporate events, 186–187
 - educational events, 186
 - knowing client, 178–179
 - weddings, 180–186
 - EXIF (Exchangeable Image File Format), 249
 - exposure
 - AE (auto-exposure) Lock button, 10
 - auto-exposure bracketing, 8
 - contrast range, 121
 - control specifications, 237
 - evaluating in playback, 33
 - levels of, 121–122
 - metering modes
 - bracketing, 52–54
 - modifying exposure, 52
 - overview, 48–52
 - multiple
 - merging, 201
 - overview, 198
 - Exposure Compensation/Aperture button, 7, 8
 - exposure range controls, RAW processors, 227
 - exposure recovery, RAW processors, 227
 - exposure slider, RAW processors, 227
 - Extension System terminal, 13
 - extension tube, 101, 249
 - Extension Tube 12 II, Canon, 101
 - Extension Tube EF 25 II, Canon, 101
 - external automatic flash exposure sensor, 580EX II Speedlite, 106–107
 - External Speedlite control option, Set-up menu 2, 34, 55
- F**
- facial shape, 157
 - Faithful Picture Style, 25
 - fashion photography, 168–171
 - FE (Flash Exposure) Lock mode, 56
 - FE Lock/Multi-Spot metering button, 7, 8
 - FEB function, 580EX II Speedlite, 106
 - FEL (flash exposure lock) button, 110–111
 - 50mm f/1.2L lens, 86–87, 89, 95–96, 158, 209
 - 50mm f/1.4L lens, 86–88
 - 50mm f/2.5 Compact Macro lens, 96, 101
 - File name setting option, Set-up menu 1, 32
 - File numbering option, Set-up menu 1, 32
 - file size, 146, 176
 - file types, 12
 - fill flash, 115–116
 - Filter effect, Monochrome Picture Style, 25
 - filters
 - color graduated, 211
 - defined, 249
 - landscape and nature photography, 210–211
 - ND graduated, 210
 - FireWire, 249
 - firmware
 - defined, 249
 - updating, 218, 221–222
 - Firmware Version option, Set-up menu 3, 35
 - 580EX II Speedlite, 106–107, 117–118
 - FL (Fluorite elements), 84
 - flare, 249
 - flash
 - Canon Speedlites
 - 430EX, 107–108
 - 430EX II, 107–108
 - 580EX II, 106–107
 - add-on modifiers for, 111–113
 - exposing with, 109–111
 - overview, 103–106
 - remote triggering with, 115–118
 - specifications, 237
 - using in various lighting situations, 113–115
 - fill, 115–116
 - modes, 55–56
 - Orbis Ring Flash, 113
 - preflash, 8
 - Ranger ring flash, 132
 - Ray Flash, 112
 - Ring flash, 105, 251
 - settings, 34
 - flash control, 430EX II, 107
 - Flash Exposure Bracketing mode, Set-up menu 2, 55
 - Flash Exposure Compensation mode, Set-up menu 2, 55
 - Flash Exposure (FE) Lock mode, 56
 - flash exposure lock (FEL) button, 110–111
 - flash exposure sensor, 580EX II Speedlite, 106–107
 - Flash Firing function, 580EX II Speedlite, 106
 - Flash Mode
 - 580EX II Speedlite, 106
 - Set-up menu 2, 55
 - Flash WB setting, 60
 - Fluorescent Light WB setting, 60
 - fluorescent lighting systems, 134–136
 - Fluorite elements (FL), 84
 - focus
 - AF Point Selection/Magnify button, 10
 - AF-Drive button, 6–8
 - problems with 1DsIII cameras, 222

focus lock, 45
 focus point, 45
 Focus preset, Canon 200mm f/2.0L lens, 99
 focusing modes

- AI Servo Auto Focus, 46–47
- Automatic Focus, 47–48
- manual focus, 48
- One Point Auto Focus, 45–46

 Focusing screen, 48, 249
 Folder option, Playback selection, Set-up menu 1, 32
 folders, Capture One Pro 4.6, 70–71
 food during shoots, 182
 formal portraits

- flexibility of, 178
- overview, 154–155
- speed and lighting, 182–183

 Format option, Set-up menu 1, 33
 formats, card, 29
 45mm TS-E lens, 96
 four-color CMYK offset printing, 146
 430EX II Speedlite, 107–108
 430EX Speedlite, 110, 114, 116–117
 14-bit color, 146
 14mm f/2.8L lens, 82, 89, 96, 193, 209
 freezing, computer, 78
 Fresnels, 132, 138
 front view of camera, 5
 Full frame playback option, 10
 Full frame with file information playback option, 10
 full-size sensor, 249
 Function button, 9, 11–12, 27

G

Gary Fong Lightsphere, 111
 generators

- battery, 128
- portable power, 141

 gigabyte, 249
 Gold membership, CPS, 225
 golden hour, 124, 203
 graduated exposure lighting, 16
 gray card, 249
 grid overlay, 18
 Griffith, Tim, 197

H

hair, 157
 hard drive speed, 75
 HDR (high dynamic range) image, 54
 HDR (high dynamic range) merge technique, 207
 height, camera, 198
 Hensel Octa Haze diffuser, 132–133, 183–184

high dynamic range (HDR) image, 54
 high dynamic range (HDR) merge technique, 207
 High ISO Speed Noise Reduction setting, 58
 High speed continuous drive mode, 56
 High Speed Sync (FP Flash) mode, 56
 Highlight alert option, Playback menu 2, 30
 Highlight Priority, 4, 176–177, 180
 Highlight/Shadow adjustment, 207
 High-speed sync, 249
 Histogram option, Playback menu 2, 30
 histograms

- checking available light, 123–124
- defined, 250
- evaluating exposure in, 33, 49
- HDR image, 54
- image exposed to retain highlights with, 52
- image exposed to retain shadows with, 53
- Info button controls, 10

 HMI systems, 136–138
 Honda generators, 141
 horizontal lines, 189, 198
 hot shoe, 250
 hue, 16

I

ICC color profile, 24
 icons, menu, 23
 Image copy option, Playback menu 1, 30
 image erase specifications, 238
 Image jump option, Playback menu 2, 31
 image playback specifications, 238
 image protection specifications, 238
 image quality modes, 62
 image size, 10
 Image size option, Shooting menu 2, 27
 Image Stabilization (IS), 84, 199, 250
 image stitching, 198
 indoor photography, 125, 134, 182
 Info button

- diagram, 9
- overview, 10
- Picture Styles settings, 25
- Playback button, 11

 informal portraits, 153–154, 178
 interface specifications, 239
 internal flare, 95
 Iridient Digital RAW Developer, 212, 230–231
 IS (Image Stabilization), 84, 199, 250
 ISO 100, 57
 ISO 1600, 57
 ISO 3200, 57–58
 ISO 400, 57
 ISO 6400, 58
 ISO 800, 57

ISO button, 7, 8
 ISO choices, 57–59
 ISO levels, 144, 194

J

Joker-Bug 800, 137–138
 JPEG (Joint Photographic Experts Group)
 defined, 250
 landscape and nature photography, 204–205
 memory cards, 15–16
 overview, 62
 tethered shooting, 75–76
 white balance, 23–25
 JPEG quality option, Shooting menu 2, 27

K

Kelvin (K), 250
 keystoneing, 82, 190
 kilobyte, 250
 Kino Flo fluorescent lighting, 134, 144, 162

L

L lenses, Canon
 fast lenses, 177
 prime lenses, 85–88, 149–151
 versus standard lenses, 94–95
 zoom lenses, 81–83, 92, 150
 landscape photography
 filters, 210–211
 JPEG files, 204–205
 lenses, 209–210
 maximizing dynamic range
 HDR merge technique, 207
 Highlight/Shadow adjustment, 207
 multi-point spot metering, 206
 overview, 203–204
 post-processing work, 212–213
 RAW files, 204–205
 stitching images, 208
 vibrationless shooting, 209
 Landscape Picture Style, 25
 Language option, Set-up menu 2, 33
 lanterns, 132
 large JPEGs, 15
 LCD brightness option, Set-up menu 2, 33
 LCD monitor, 148, 238
 lekos, 138
 lens contrast, 84
 lens distortion, 190
 lens sharpness, 84
 lens speed, 85

lenses
 14mm f/2.8L, 82, 89, 96, 193, 209
 16-35mm f/2.8L II zoom, 92
 17-40mm f/4.0L zoom, 92
 17mm TS-E, 191, 193
 24 mm TS-E II, 191
 24-70mm f/2.8L zoom, 92–96, 160–161
 24mm f/1.4L, 96
 24mm TS-E, 90–92, 96, 209
 35mm f/1.4L, 88–89, 96, 159–160, 163
 45mm TS-E, 96
 50mm f/1.2L, 86–87, 89, 95–96, 158, 209
 50mm f/1.4L, 86–88
 50mm f/2.5 Compact Macro, 96, 101
 70-200mm f/2.8L II IS zoom, 93, 97–98
 70-200mm f/4L zoom, 93, 158
 85mm f/1.2L, 85–87, 89, 95–96, 158–159, 209
 90mm TS-E, 91–92, 159–160
 135mm f/2.0L, 96, 209
 200mm f/2.0L, 96–100, 160, 209
 advertising and editorial photography, 149–151
 for architectural photography, 191
 calibrating, 222–225
 EF extenders, 100–101
 extension tubes, 101
 L lenses, 94–95
 landscape and nature photography, 209–210
 macro, 101
 maintenance, 221
 overview, 81–83
 portraiture, 158–161
 prime, 84–89
 standard, 94–95
 terminology, 83–84
 tilt-shift, 90–92
 zoom, 92–94, 158, 209
 level photographs, 189, 198
 light meter, 250
 lighting
 available light, 123–127, 162–164
 bounce light, 248
 Canon Speedlites
 430EX, 107–108
 430EX II, 107–108
 580EX II, 106–107
 add-on modifiers for, 111–113
 exposing with, 109–111
 overview, 103–106
 remote triggering with, 115–118
 specifications, 237
 using in various lighting situations, 113–115
 choosing, 198
 daylight extremes, 181–182

Continued

lighting (*continued*)

- fluorescent lighting systems, 134–136
 - formal portraits, 182–183
 - HMI systems, 136–138
 - indoor photography, 182
 - look of, 123
 - low-light shooting technique, 177
 - mixed, 145
 - planning setup, 121–123
 - portable power
 - battery units, 140–141
 - gasoline generators, 141
 - portable ring lights, 112–113
 - portraiture, 156–158
 - ring lights, 132–133, 183–184
 - strobe systems
 - comparisons of, 131–133
 - modifiers, 128–130
 - types of, 127–128
 - studio, 166–168
 - tungsten lights, 138–140
 - wedding and event photography, 175
- lighting case, 243–244
- Lightroom, 76–77, 231–232
- Lightsphere II, 112, 114
- lithium ion (Li-ion) battery, 4, 250
- Live Capture, 62
- Live View feature
 - activating, 19
 - advantages of, 18, 145
 - architectural photography, 194
 - challenges of, 18–19
 - overview, 4
 - specifications, 238
 - vibrationless shooting, 209
- Live View function settings option, Set-up menu 2, 34
- location portraiture, 161–166
- locked images, 12
- lossless compression, 250
- lossy compression, 250
- Low speed continuous drive mode, 56
- low-light shooting technique, 177
- luminance noise, 58
- Lumiquest Big Bounce, 111–112

M

- M (Manual) mode setting, 6
- M1 JPEGs, 15
- M2 JPEGs, 15
- Macintosh systems, tethered shooting with
 - computer hardware, 75
 - improvement in, 148
- Lightroom 2.0, 76–77
 - overview, 74
 - small JPEGs, 75–76
 - troubleshooting, 78
- macro lenses, 101
- Macro Ring Lite MR-14EX Speedlite, 105
- Macro Twin Lite MT-24EX Speedlite, 104
- magic hour, 124
- Main Control dial, 5–10, 12
- main window, EOS Utility, 71–72
- maintaining camera
 - calibrating lenses, 222–225
 - cleaning sensor
 - dust spots, 28
 - EOS Integrated Cleaning system, 218–219
 - manual, 219–221
 - self-cleaning, 4
 - Set-up menu 3, 35
 - ultrasonic, 217
 - overview, 217–218
 - sending camera in for repair, 225–226
 - updating firmware, 221–222
- Manual (M) mode setting, 6
- Manual Cleaning option, Setup Menu 3, 219
- Manual Exposure setting
 - Canon Speedlites, 111
 - defined, 250
 - overview, 51
- Manual focus, 48
- Manual Reset setting, Set-up menu 1, 32
- meals during shoots, 182
- megabyte, 250
- megapixel, 250
- memory, computer, 75
- memory cards. *See also specific memory cards*
 - by type
 - JPEG files, 15–16
 - overview, 14
 - RAW files, 14–15
 - sRAW files, 14–15
- Menu button, 9
- menu icons, 23
- menu systems
 - Custom Functions menu
 - C.Fn setting register/apply menu item, 40–41, 52–53
 - Clear All Custom Functions menu item, 40
 - overview, 35–40
 - My Menu settings, 41
 - organization of, 22–23
 - overview, 21–22
 - Playback menu 1, 28–30
 - Playback menu 2, 30–31
 - selecting items, 22
 - Set-Up menu 1, 31–33

- Set-Up menu 2, 33–34
 - Set-Up menu 3, 34–35
 - Shooting menu 1, 23–27
 - Shooting menu 2, 27–28
 - merging multiple exposures, 201
 - Metering Mode/Flash Exposure Compensation button, 7, 8
 - Microadjustment, 218, 222–225
 - microdrive, 14, 19, 250
 - mirror lockup, 6
 - mixed lighting, 145
 - Mode button, 6, 7, 8
 - Moiré interface, 223
 - Molas, 129–130, 170
 - Monochrome Picture Style, 25–27
 - monolights, 128
 - motor drive, 6–7
 - MoveTo subfolder, Capture One Pro 4.6, 70
 - Multi-controller
 - diagram, 9
 - functions, 11
 - Live View, 18–19
 - overview, 4
 - multiple exposures
 - merging, 201
 - overview, 198
 - Multi-Spot Metering mode, 51, 206
 - My Menu screen, 23
 - My Menu settings, 41
- ## N
- nature photography
 - filters, 210–211
 - JPEG files, 204–205
 - lenses, 209–210
 - maximizing dynamic range
 - HDR merge technique, 207
 - Highlight/Shadow adjustment, 207
 - multi-point spot metering, 206
 - overview, 203–204
 - post-processing work, 212–213
 - RAW files, 204–205
 - stitching images, 208
 - vibrationless shooting, 209
 - navigating camera
 - back of camera
 - AE Lock/Reduce button, 10
 - AF Point Selection/Magnify button, 10
 - AF start button, 10
 - bottom-right buttons, 12
 - Erase button, 11
 - Function button, 11–12
 - Info button, 10
 - Menu button, 9
 - Multi-controller joystick, 11
 - Off/On switch, 11
 - overview, 8–9
 - Playback button, 11
 - Protect/Sound Recording button, 12
 - Quick Control dial, 11
 - Quick Control dial Set button, 11
 - Live View
 - activating, 19
 - advantages of, 18
 - challenges of, 18–19
 - memory cards
 - JPEG files, 15–16
 - overview, 14
 - RAW files, 14–15
 - sRAW files, 14–15
 - new features, 3–5
 - side connections, 12–13
 - top of camera
 - AF-Drive button, 6–8
 - Exposure Compensation/Aperture button, 8
 - FE Lock/Multi-Spot metering button, 8
 - ISO button, 8
 - Main Control dial, 8
 - Metering Mode/Flash Exposure Compensation button, 8
 - Mode button, 6, 8
 - viewfinder readout, 16–17
 - ND graduated filters, 210
 - negative views of images, 210
 - Neutral Picture Style, 25–26
 - Next Capture Adjustments, Capture One Pro 4.6, 71
 - Nik Viveza plug-in, 212
 - Nikon D3, 58
 - 90mm TS-E lens, 91–92, 159–160
 - noise
 - defined, 251
 - ISO, 57–58
 - Live View, 19
 - reduction, 58–59, 228
 - types of, 58
 - Noise Ninja, 58–59
 - Non-L zoom lens, 95
- ## O
- OC-E3 off-camera shoe cord, 113
 - Octa Haze modifier, Hensel, 183–184
 - off-camera shoe cord OC-E3, Canon, 105
 - Off/On switch, 9, 11
 - One Point Auto Focus mode, 45–46
 - 135mm f/2.0L lens, 96, 209
 - One-shot focus mode, 7
 - operating environment specifications, 239

operating speed, 176
 operational controls, lens, 85
 optical correction tools, 200
 optical perfection, 189–190, 198
 Orbis Ring Flash, 113
 outdoor photography
 buildings, 125–126
 HMI, 137
 lighting extremes, 181–182
 Lightsphere, 68
 output ports, 12–13
 Output subfolder, Capture One Pro 4.6, 70
 overexposure, 30, 49

P

parallel lines, 189, 198
 Paras umbrella, 129
 Pars units, 138
 Partial metering mode, 51
 PC terminal, 13
 Perspective tool, Photoshop, 200
 Photek Softlighter II, 129, 136
 photo shoots, 170
 photography styles
 advertising
 advantages, 143–147
 avoiding downtime, 147–148
 lenses, 149–151
 limitations, 143–147
 post-production work, 151–152
 processing, 151–152
 tethered shooting, 148–149
 architectural
 Jon Roemer, 195–197
 overview, 191–194
 post-processing work, 200–202
 requirements of, 189–191
 techniques, 198–200
 beauty, 168–171
 child, 164–166
 editorial
 advantages, 143–147
 avoiding downtime, 147–148
 lenses, 149–151
 limitations, 143–147
 post-production work, 151–152
 processing, 151–152
 tethered shooting, 148–149
 event
 challenges and limitations, 179–180
 considerations, 173–178
 corporate events, 186–187
 educational events, 186

 knowing client, 178–179
 weddings, 180–186
 fashion, 168–171
 indoor, 125, 134, 182
 landscape
 filters, 210–211
 JPEG files, 204–205
 lenses, 209–210
 maximizing dynamic range, 206–207
 overview, 203–204
 post-processing work, 212–213
 RAW files, 204–205
 stitching images, 208
 vibrationless shooting, 209
 nature
 filters, 210–211
 JPEG files, 204–205
 lenses, 209–210
 maximizing dynamic range, 206–207
 overview, 203–204
 post-processing work, 212–213
 RAW files, 204–205
 stitching images, 208
 vibrationless shooting, 209
 outdoor, 68, 125–126, 137, 181–182
 runway, 171
 sports, 83
 wedding
 challenges and limitations, 179–180
 considerations, 173–178, 180–186
 knowing client, 178–179
 Photomatrix, 54
 Photoshop program
 HDR image, 54–55
 inverting images, 210
 Merge to HDR feature, 207–208
 optical correction tools, 200–201
 post-processing, 212
 PictBridge-enabled printers, 29
 Picture Style menu page, 12
 Picture Style modes, 62
 Picture Style option, Shooting menu 1, 24–25
 pincushion distortion, 84, 190, 251
 pixel, 251
 Platinum membership, CPS, 225
 playback, 10–12, 28, 33
 Playback button
 diagram, 9
 overview, 11
 Protect/Sound Recording button, 12
 Playback menu 1, 28–30
 Playback menu 2, 30–31
 Playback menus, 22
 Playback option, Set-up menu 1, 31–32

Playback quality, 4
 plug-ins, 201, 212–213, 251
 Plume Wafer softboxes, 128
 Point Selection/Magnify button, 18
 portable power
 battery units, 140–141
 gasoline generators, 141
 portable ring lights, 112–113
 Portraits Picture Style, 25
 portraiture
 beauty and fashion, 168–171
 formal portraits
 flexibility of, 178
 lighting, 182–183
 overview, 154–155
 informal portraits, 153–155, 178
 lenses, 158–161
 lighting, 156–158
 on location, 161–166
 overview, 153–154
 in studio, 166–168
 wedding and event photography, 175
 working with subject, 155–156
 ports, output, 12–13
 post-processing work
 advertising and editorial photography, 151–152
 architectural photography, 200–202
 landscape and nature photography, 212–213
 lighting, 123
 power cable, 245
 power pack, 127–128
 power source specifications, 239
 Preferences files, 78–79
 Preferences window, EOS Utility, 71–73, 76–77
 preflash, 8
 prepping equipment, 43–45
 Preset White Balance settings, 60
 prime lens, 84–89
 Print order option, Playback menu 1, 29
 printing, 15
 processing
 advertising and editorial photography, 151–152
 post-processing work
 advertising and editorial photography,
 151–152
 architectural photography, 200–202
 landscape and nature photography, 212–213
 lighting, 123
 processor, 4
 Profoto hardbox, 132
 Profoto Pro-7b, 140
 Program mode, 6, 251
 Protect images option, Playback menu 1, 29
 protected images, 33
 Protect/Sound Recording button, 9, 12

Q

Quick Control dial
 AF Point Selection/Magnify button, 10
 AF-Drive button, 6–8
 choosing Picture Styles, 25
 controlling playback, 11
 diagram, 9
 enabling, 11
 Erase button, 11
 exposure compensation, 8
 Function button, 12
 Mode button, 6
 overview, 5–6
 Protect/Sound Recording button, 12
 selecting menu items, 19
 Quick Control dial Set button, 9, 11, 22, 25
 Quick Control window, Capture One Pro, 229–230
 Quick Preview window, EOS Utility, 74

R

RAM (Random Access Memory), 251
 Ranger ring flash, 132
 Ranger RX-AS, Elinchrom, 136, 141, 184
 RAW + JPEG setup, 251
 RAW Developer, Iridient Digital's, 212
 RAW files
 defined, 251
 landscape and nature photography, 204–205
 overview, 14–15, 62
 Picture Styles, 25
 processor software
 Adobe Camera Raw, 232–233
 Adobe Lightroom 2.2, 231–232
 Aperture 2, 233–234
 Canon Digital Photo Professional, 228–229
 Capture One Pro, 229–230
 Iridient Digital RAW Developer, 230–231
 overview, 227–228
 tethered shooting, 75–77
 White Balance Bracketing, 24
 Ray Flash unit, 112
 Rear curtain sync, 251
 rechargeable battery, 140–141
 Record func+media/folder sel option, Set-up
 menu 1, 31
 Record separately option, Set-up menu 1, 31
 Record to multiple option, Set-up menu 1, 31
 recording system specifications, 236
 rectilinear lenses, 84
 recycling, 430EX II, 107
 Red, Green, and Blue (RGB) histograms, 10, 30
 Red, Green, and Blue (RGB) mode, 251
 reflectors, 129–130
 reflex viewing, 193

Regist/apply basic settings, Set-up menu 3, 35
 Register command

- Custom Functions menu, 40
- My Menu settings, 41

 registering settings, 63
 reliability, camera, 144, 154
 Remote Switch RS-80N3, Canon, 56
 Remote terminal, 13
 repair, camera, 225–226
 Repair Disk Permissions button, Disk Utility, 78
 resolution, 251
 Review time option, Shooting menu 2, 28
 RGB (Red, Green, and Blue) histograms, 10, 30
 RGB (Red, Green, and Blue) mode, 251
 right angles, 189, 198
 Ring flash, 105, 251
 ring lights, 112–113, 132–133, 183–184
 Roemer, Jon, 195–197
 Rotate option, Playback menu 1, 29
 ruggedness, camera, 217
 runway photography, 170–171
 Russell, James, 169–170

S

sandbag case, 245
 Save/load settings on media option, Set-up menu 3, 34
 schedule, lighting, 122
 seamless background, 166
 Secure Digital (SD) cards

- backing up, 27, 178
- Function button, 11–12
- loading camera settings to, 34
- recording options, 31
- slot for, 14
- tethered shooting, 75–76

 Self Cleaning Unit, 218–219
 self-cleaning sensor, 4
 sensor

- cleaning
 - EOS Integrated Cleaning system, 218–219
 - manually, 219–221
 - self-cleaning, 4
 - ultrasonic, 217
- damage, 19
- full-size, 249
- illumination, 190
- specifications, 235

 Sensor cleaning option, Set-up menu 3, 35
 Sensor Swab, 220
 Sessions system, Capture One Pro 4.6, 70
 Set button, Canon 200mm f/2.0L lens, 99
 Set button, Quick Control, 9, 11, 22, 25
 Set-up 2 menu, 19
 Set-Up menu 1, 31–33
 Set-Up menu 2, 33–34
 Set-Up menu 3, 34–35
 Set-up menus, 22
 17-40mm f/4.0L zoom lens, 92
 17mm TS-E lens, 191, 193
 70-200mm f/2.8L II IS zoom lens, 93, 97–98
 70-200mm f/4L zoom lens, 93, 158
 Shade WB setting, 60
 sharpening techniques, 202
 sharpness

- image, 146
- lens, 84
- RAW processors, 228

 Shoot w/o card option, Shooting menu 2, 28
 shooting

- continuous, 4
- extra equipment, 245
- food during, 182
- low-light technique, 177
- tethered
 - with 1Ds Mark III, 146
 - advertising and editorial photography, 148–149
- cables, 78
- Capture One Pro, 229–230
- Digital terminal, 13
- improvements, 5
- Live View mode, 18
- Playback selection, 32
- pros and cons of, 67–69
- shooting without cards, 28
- small JPEGs, 75–77
- software for, 69–74
- troubleshooting, 77–79

 Shooting menu 1, 23–27
 Shooting menu 2, 27–28
 Shooting menus, 22
 shot lists, 180
 shutter

- defined, 251
- specifications, 237

 Shutter Priority mode setting, 6, 251
 shutter speed, 155
 Shutter Sync function, 580EX II Speedlite, 106
 Shutter Sync mode, Set-up menu 2, 55
 side connections, 12–13
 side view of camera, 12–13
 Silent mode, 7, 28
 Silent single drive mode, 56
 Silver membership, CPS, 225
 Single drive mode, 56
 single point AF AI Servo, 46–47
 16-35mm f/2.8L II zoom lens, 92
 size, lens, 85

- Skew tool, Photoshop, 200
- skin blemishes, 157
- skin color, 157
- skin tones, 155
- Slow sync, 251
- small JPEGs, 15
- Smaller image with histogram playback option, 10
- Smaller image with RGB histograms playback option, 10
- social events, 176
- social skills, 175, 182
- soft egg-crate, 128
- soft grid, 128
- softboxes, 128
- Softlighter II, Photek, 129, 136
- softlights, 138
- software
 - RAW processor
 - Adobe Camera Raw, 232–233
 - Adobe Lightroom 2.2, 231–232
 - Aperture 2, 233–234
 - Canon Digital Photo Professional, 228–229
 - Capture One Pro, 229–230
 - Iridient Digital RAW Developer, 230–231
 - overview, 227–228
 - for tethered shooting
 - Canon, 71–74
 - Capture One Pro 4.6, 70–71
 - overview, 69–70
- Sort button, My Menu settings, 41
- sound recording notations, 12
- sound recording specifications, 238
- special lighting units, 132–133
- specifications
 - autofocus, 236–237
 - customization, 238
 - dimensions and weight, 239
 - direct printing, 238
 - drive system, 237
 - exposure control, 237
 - external Speedlite, 237
 - image playback, 238
 - image protection and erase, 238
 - image sensor, 235
 - interface, 239
 - LCD monitor, 238
 - Live View, 238
 - operating environment, 239
 - power source, 239
 - recording system, 236
 - shutter, 237
 - sound recording, 238
 - type, 235
 - viewfinder, 236
 - white balance, 236
- speed
 - camera, 144, 176
 - lens, 85, 95
 - photographer, 174, 186
- Speedlite Transmitter ST-E2, 105
- Speedlites, Canon
 - 430EX, 107–108
 - 430EX II, 107–108
 - 580EX II, 106–107
 - add-on modifiers for
 - Gary Fong Lightsphere, 111
 - Lumiquest Big Bounce, 111–112
 - portable ring lights, 112–113
 - Sto-Fen modifier, 112
 - exposing with
 - considerations, 109
 - E-TTL II, 110
 - FEL button, 110–111
 - manual exposure, 111
 - external control, 34, 55
 - overview, 103–106
 - remote triggering with, 115–118
 - specifications, 237
 - using in various lighting situations
 - daylight, 113–114
 - dim interiors and exteriors, 115
 - low light, 115
- Split Metering mode, 51
- sports photography, 83
- Spot metering mode, 51
- spread, 128
- square crop, 166
- sRAW files, 14–15, 62, 251
- Stabilizer mode, Canon 200mm f/2.0L lens, 99
- stand case, 244
- standard lens, 94–95, 166–168, 252
- Standard option, Set-up menu 1, 31
- Standard Picture Style, 25–26
- ST-E2 wireless transmitter, 113, 115, 117–118
- stitching images, 202, 208
- Sto-Fen modifier, 112
- striplights, 128
- strobe lighting
 - combining, 144
 - comparisons of, 131–133
 - modifiers
 - reflector control, 130
 - reflectors, 129–130
 - softbox control, 128–129
 - softboxes, 128
 - umbrella control, 129
 - umbrellas, 129
 - mounting, 116–118
 - types of
 - monolights, 128
 - power packs, 127–128

synchronize, 252

System Management Controller, 78

T

Tagged-Image File Format (TIFF), 252

TC-80NE, 57

tele-extenders, 225

telephoto lens, 83, 99–100

temperature range, 217

testing equipment, 44, 148

tethered shooting

with 1Ds Mark III, 146

advertising and editorial photography, 148–149

cables, 78

Capture One Pro, 229–230

Digital terminal, 13

improvements, 5

improving capture rate

computer hardware, 75

Lightroom 2.0, 76–77

small JPEGs, 75–76

Live View mode, 18

Playback selection, 32

pros and cons of, 67–69

shooting without cards, 28

software for

Canon, 71–74

Capture One Pro 4.6, 70–71

overview, 69–70

troubleshooting

general, 78

overview, 77

specific, 78–79

35mm f/1.4L lens, 88–89, 96, 159–160, 163

throw, 128

TIFF (Tagged-Image File Format), 252

tilt-shift lens

architectural post-processing techniques, 200

architecture, 198

landscapes, 82

overview, 90–92

time value (Tv) mode setting, 6, 252

Toning selection, Monochrome Picture Style, 25

top view of camera, 7

Transfer order option, Playback menu 1, 29–30

Trash subfolder, Capture One Pro 4.6, 70

traveling system example

camera case, 242–243

extras, 245

lighting case, 243–244

overview, 241–242

power cable, 245

sandbag case, 245

stand case, 244

troubleshooting

equipment, 148

tethered shooting

general, 78

overview, 77

specific, 78–79

TS-E (Tilt Shift), 84

Tungsten Light WB setting, 60

tungsten lights, 138–140

Tv (time value) mode setting, 6, 252

24-70mm f/2.8L zoom lens, 92–96, 160–161

24mm f/1.4L lens, 96

24mm TS-E lens, 90–92, 96, 191, 209

200mm f/2.0L lens, 96–100, 160, 209

220EX Speedlite, 104

U

Ultra Direct Memory Access (UDMA) CF cards, 14

ultralow dispersion (UD), 84, 252

Ultrasonic Motor (USM), 84, 95

ultrasonic sensor cleaner, 217

umbrella control, 129

umbrellas, 129

underexposure, 49

updating firmware, 218, 221–222

USB Cable Protector, 79

USB tethering

with 1Ds Mark III, 146

advertising and editorial photography, 148–149

cables, 78

Capture One Pro, 229–230

Digital terminal, 13

improvements, 5

improving capture rate

computer hardware, 75

Lightroom 2.0, 76–77

small JPEGs, 75–76

Live View mode, 18

Playback selection, 32

pros and cons of, 67–69

shooting without cards, 28

software for

Canon, 71–74

Capture One Pro 4.6, 70–71

overview, 69–70

troubleshooting

general, 78

overview, 77

specific, 78–79

User Defined Styles Picture Style, 26

USM (Ultrasonic Motor), 84, 95

V

vertical lines, 189, 198
vibrationless shooting, 209
Video Out terminal, 13
Video system option, Set-up menu 2, 33
viewfinder
 readout, 16–17
 specifications, 236
vignetting, 85, 252
Viveza plug-in, Nik, 212

W

wardrobe, 157–158
Warp tool, Photoshop, 200–201
WB Shift/BKT option, Shooting menu 1, 24
wedding photography
 challenges and limitations, 179–180
 considerations, 173–178, 180–186
 knowing client, 178–179

weight

 lens, 85
 specifications, 239
WFT-E2A wireless transmitter, 13
White Balance Bracketing option, Shooting menu 1, 24
White Balance modes, 60–61
White balance option, Shooting menu 1, 23
White Balance Shift option, Shooting menu 1, 24
white balance specifications, 236
white lens, 82–83, 189, 210
Wi-Fi (Wireless Fidelity), 252
Wireless Transmission and Reception function,
 580EX II Speedlite, 106
wireless transmission of images, 13

Z

zoom lens, 92–94, 158, 209