

Protocols for Mobile Dental Photography with Auxiliary Lighting





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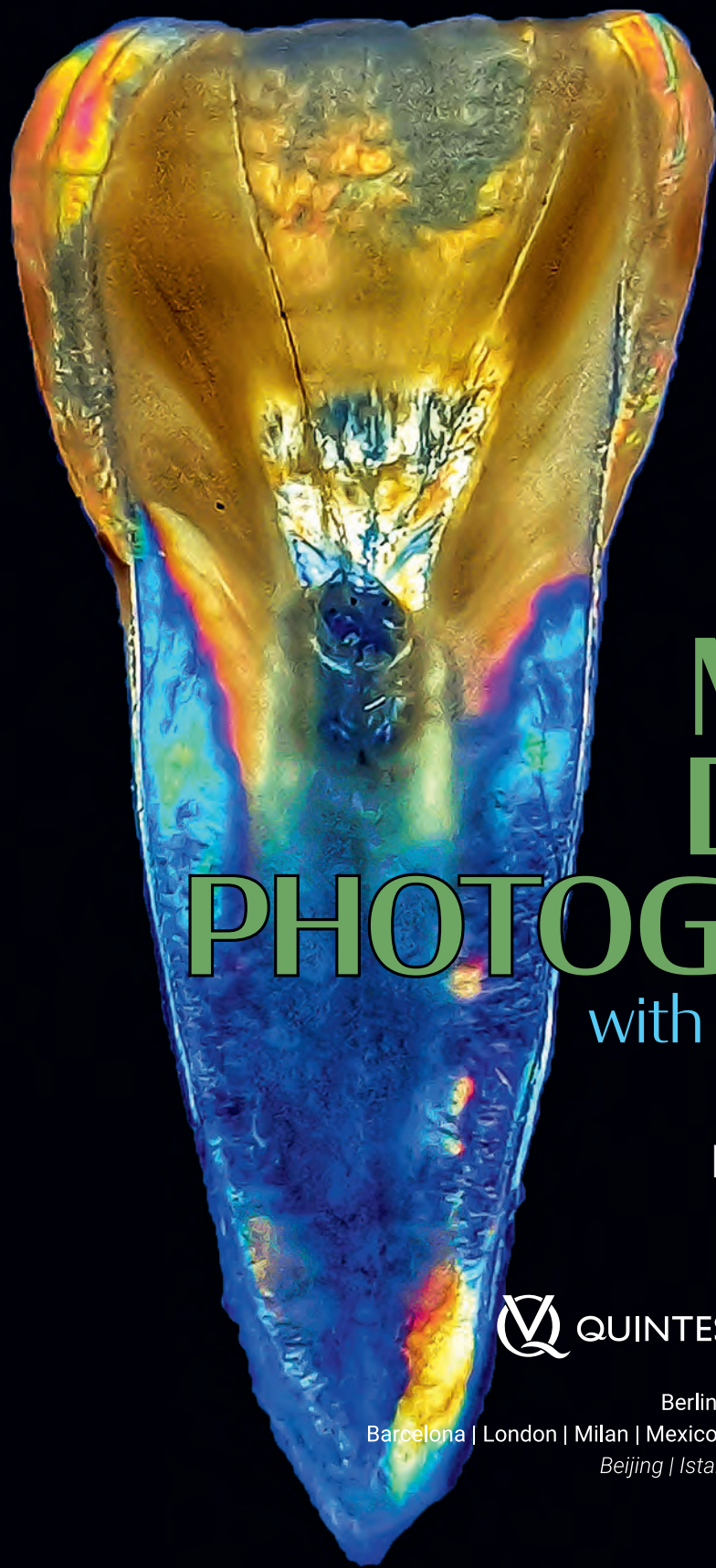
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Protocols for
**MOBILE
DENTAL
PHOTOGRAPHY**
with Auxiliary Lighting

Louis Hardan, DDS, PhD

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CONTENTS



About the Author vi

Foreword vii

01 } *Introduction* 1

02 } *Why Document?* 3

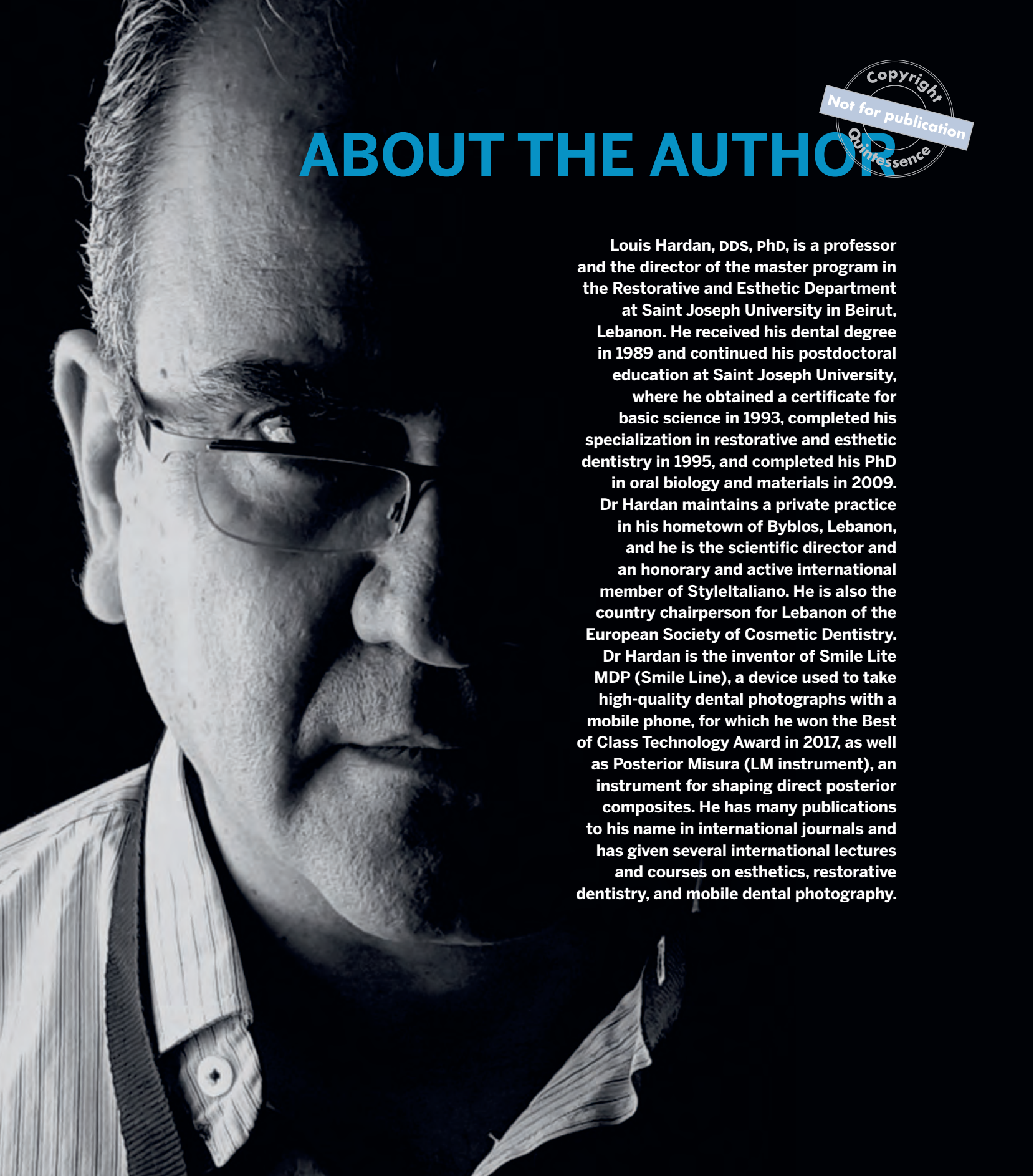
03 } *Advantages of Mobile Dental Photography* 15

04 } *Specifications of a Smartphone Camera* 23

05 } *Accessories Needed for MDP* 29

06 } *Types of Light* 35

07	›	<i>Smile Lite MDP</i>	43
08	›	<i>Important Rules for MDP</i>	53
09	›	<i>How to Take Intraoral Photographs with MDP</i>	67
10	›	<i>How to Take Extraoral Photographs with MDP</i>	83
11	›	<i>Mobile Dental Video</i>	101
12	›	<i>Applications of MDP</i>	107
		<i>Epilogue</i>	117
		<i>Index</i>	118



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ABOUT THE AUTHOR

Louis Hardan, DDS, PhD, is a professor and the director of the master program in the Restorative and Esthetic Department at Saint Joseph University in Beirut, Lebanon. He received his dental degree in 1989 and continued his postdoctoral education at Saint Joseph University, where he obtained a certificate for basic science in 1993, completed his specialization in restorative and esthetic dentistry in 1995, and completed his PhD in oral biology and materials in 2009. Dr Hardan maintains a private practice in his hometown of Byblos, Lebanon, and he is the scientific director and an honorary and active international member of StyleItaliano. He is also the country chairperson for Lebanon of the European Society of Cosmetic Dentistry. Dr Hardan is the inventor of Smile Lite MDP (Smile Line), a device used to take high-quality dental photographs with a mobile phone, for which he won the Best of Class Technology Award in 2017, as well as Posterior Misura (LM instrument), an instrument for shaping direct posterior composites. He has many publications to his name in international journals and has given several international lectures and courses on esthetics, restorative dentistry, and mobile dental photography.

FOREWORD



“You should never judge a photographer by the type of film used, but only how he uses it.”

—Ernst Haas

Since Professor Louis S. Hardan joined the StyleItaliano team, every day he has shown the curiosity and interest in simplified dentistry that is in our StyleItaliano DNA. One day he came to us and said, “Taking a good dental photo must be as easy and pleasant as taking a selfie.”

We were shocked by this, considering all the effort that goes into taking high-quality photographs in the clinic, all the devices and details required, all the money invested in making the communication better and better in our courses and lectures. But then he came with a smart prototype and showed us a series of photographs. They were breathtaking—in clarity, resolution, sharpness, and the way the light was managed.

And the device in question was his mobile. With some smart lighting of course.

We finally understood. He was thinking exactly of all the dentists and students who don’t take photographs because it is too complicated and expensive. He was thinking of an easy way to communicate with the dental technician. He was thinking of the assistants, always struggling with the professional camera. He was thinking of the easiest and best way to speak with the patient and create a positive relationship. All of this is the real philosophy and target of StyleItaliano.

We are proud of this work, proud to encourage every dentist to always document every case. This is the way to grow your skills and to share emotions with everyone around.

Although some may express cynicism at the use of smartphones in clinical photography, we would like to remind you of the initial quote by Ernst Haas: “You should never judge a photographer by the type of film used, but only how he uses it.” Smartphone cameras are evolving rapidly, and the photographs in this book are the best proof that it is not the type of camera that dictates the quality of a photograph—it’s how you use it.

Enjoy the book with passion and bright eyes!



Walter Devoto & Angelo Putignano
Founders of StyleItaliano

01

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Introduction

Billions of photographs are taken worldwide each day, and most of them are captured with a smartphone.

The past is gone, we live in the present, and no one can predict the future. This is a reality that we cannot deny. Because our memories can be unclear and lack detail, to keep them alive we often try to capture moments with photographs and videos. Inventor Nicéphore Niépce is credited as the first to take a partially successful photograph in the early 19th century. This technology was slow to evolve, eventually picking up pace in the late 20th century with the introduction of pocket cameras, followed by the integration of cameras in mobile phones in recent years.

In 2011, only about 10% of the world's population used a smartphone. In 2018, that figure jumped to 36%, with an estimated 3.8 billion users in 2021. Because smartphones are relatively similar in design, utility, and performance, smartphone companies are shifting their attention to the quality of their products' cameras to give them the competitive advantage in the marketplace. After all, billions of photographs are taken worldwide each day, and most of them are captured with a smartphone. Improved optical zooming (10× or more), 360-degree video, and 3D imaging with depth sensing are the serious projects of the future for smartphone cameras, and there are plenty of other innovations on the horizon. This technology war between the dueling smartphone companies has spurred rapid evolution in the capabilities of smartphone cameras, leading even some professional photographers to start using their smartphones to take high-quality photographs with great definition.

We know that many dentists already use their smartphone cameras to document their cases and communicate with their laboratory because they do not have professional cameras, but a poorly taken photograph can compromise the quality of the dentistry delivered to the patient. Therefore, it is important to understand how to properly use a smartphone camera in the context of clinical photography. That is why we started the Mobile Dental Photography (MDP) project in 2012; we wanted to find a way to make documentation and communication easy and affordable to all dentists and laboratory technicians, including students. Even in hospitals, the trend of using smartphones and wireless technologies is increasing with the aim of providing high-quality, cost-effective, and altogether better health care.

Index

Page numbers followed by “f” denote figures.

A

Accessories
 for birefringence photographs, 96, 96f
 contrastors. *See* Contrastors.
 diffusers. *See* Diffusers.
 light, 36, 36f. *See also* Light.
 mirrors, 29, 31, 31f, 74, 75f
 polarizers. *See* Polarizers.
 retractors. *See* Retractors.
 Advertising, 10f, 10–11
 Analog impressions, 108, 112f
 Android smartphone, white balance
 adjustments on, 54–55, 55f
 Anterior incisors, 70, 70f
 Anterior photographs
 applications of, 107, 107f–108f
 description of, 29, 30f
 intraoral, 67–72, 68f–72f
 Anterior retractors, 57, 57f
 Aperture, 25, 25f
 Apps
 description of, 18, 19f
 for white balance setting on iPhones,
 55, 56f
 Artistic photographs
 description of, 11, 11f
 half-illuminated photograph, 86–89,
 86f–89f
 of lips, 90, 91f–92f

B

Barrel distortion, 58, 58f, 60, 60f
 “Before and after” photographs, 11, 113f
 Birefringence photographs
 accessories for, 96, 96f
 camera positioning for, 97, 97f
 definition of, 95
 polarizer filter for, 115f
 results of, 97, 98f
 tooth preparation for, 96, 96f
 Bis-acryl material, 3, 4f
 Bounced light, 36, 36f
 Brochures, 10
 Button technique, 40, 40f

C

Camera. *See* DSLR cameras;
 Smartphone camera.
 Carious lesions, 4f, 5
 Clear eyes, 93, 93f–94f
 Color value, 40, 40f
 Communication
 dental videos for, 101
 dentist–dental technician, 6
 patient–dental technician, 5–6
 photographs for, 5–6
 Continuous-light softboxes, 84–85, 85f,
 90, 91f, 103, 105f, 114f
 Contrast, 88, 88f
 Contrastors
 anterior MDP uses of, 67, 69f
 uses of, 32, 33f, 57, 57f–58f
 Cropping, 61, 62f, 88, 88f
 Cross-infection, 21
 Cross-polarized light, 37, 37f–38f

D

Dark eyes, 93, 93f–94f
 Dental records, 2–5, 4f
 Dental technician
 dentist and, 6
 patient and, 5–6
 Dental video
 accessories, 102
 applications of, 114f–115f
 camera, 102–103, 103f–105f
 communication uses of, 101
 documentation uses of, 101–102
 Diaphragm, 35f
 Differential diagnosis, 38, 39f
 Diffused light
 description of, 36, 36f
 for enamel images, 71f
 shade matching uses of, 108
 Smile Lite MDP device, 48, 48f
 Diffusers
 description of, 32, 33f, 45
 lateral lights with, 47
 polarized filter over, 96

Digital marketing, 11
 Digital zooming, 63, 103, 105f
 Direct posterior photographs, 49, 49f
 Disinfection, 19, 21f
 Documentation
 in dental records, 2–5, 4f
 dental videos for, 101–102
 medicolegal, 12
 photographs used for, 4f, 5, 108,
 110f–111f
 in postgraduate programs, 8, 10
 DSLR cameras
 barrel distortion with, 60
 cost-effectiveness of, 17, 18f
 disadvantages of, 17–20
 disinfection limitations of, 19
 flash light of, 19, 20f
 mobile dental photography versus,
 15–21, 15f–21f
 weight of, 17
 Dual camera, 26

E

Editing, 86, 88f, 92, 92f, 97
 Electromagnetic spectrum, 35
 Enamel
 etching of, 108f
 photographs of, 71f
 Extraoral photographs
 continuous-light softboxes for, 84–85,
 85f, 90, 91f, 103, 105f
 lips, 90, 91f–92f
 portrait. *See* Portraits.
 Eyes, 93

F

Filter, 80
 Finger retraction, 63, 64f
 Fingerprints on lenses, 53, 53f
 Flash, 63, 64f
 Flash light, 19, 20f
 Front-surface reflective mirrors, 31
 f-stops, 25
 Full-face photographs, 49, 51f



H

Half-illuminated portraits, 86–89, 86f–89f
High dynamic range, 90

I

Incisal halo, 70
Indirect posterior photographs, 49, 49f
Insurance, 12
Intraoral photographs
 anterior, 67–72, 68f–72f
 lateral, 49, 50f, 76, 76f–77f
 polarized, 80, 81f
 posterior, 73–74, 73f–74f. *See also*
 Posterior photographs.
 12 O'clock, 78–80, 78f–80f
iPhone
 apps, 55, 56f
 white balance adjustments on, 55, 56f
Iris muscles, 93, 94f

J

.JPEG, 26

L

Laboratory work, 108, 112f
Landscapes, 15, 15f
Lateral lights, 47, 48f
Lateral mirror, 31
Lateral photographs, 49, 50f, 76, 76f–77f
Lateral retractors, 57, 57f
Learning curve, 18, 19f
Lectures, 8, 8f
LED lights, 45, 93, 95–96
Lenses
 cleaning of, 53, 53f–54f
 description of, 25–26
 fingerprints on, 53, 53f
 multiple, 63

Light

 accessories for, 36, 36f
 for anterior incisal anatomy, 70, 70f
 bounced, 36, 36f
 continuous-light softboxes, 84–85, 85f, 90, 91f, 103, 105f, 114f
 cross-polarized, 37, 37f–38f
 diffused. *See* Diffused light.
 for enamel images, 71f
 flash, 19, 20f
 polarized. *See* Polarized light.
 for portraits, 85, 85f, 115f

 types of, 35f–41f, 35–38
 visible, 35
Lips, 90, 91f–92f

M

Mamelons, 70
Marketing, 10f, 10–11
MDP. *See* Mobile dental photography.
MDP Monopod, 46f
Medicolegal field, 12
Megapixel count, 24
MEP. *See* Mobile eye photography.
Microfiber, 54, 54f
Mirrors, 29, 31, 31f, 74, 75f
Mobile dental photography. *See also*
 Smartphone(s).
 advantages of, 15–21, 15f–21f
 anterior, 67–72, 68f–72f
 applications of, 107–115, 107f–115f
 definition of, 17
 disinfection advantages of, 19, 21f
 DSLR cameras versus, 15–21, 15f–21f
 intraoral. *See* Intraoral photographs.
 learning curve for, 18, 19f
 light from, 19, 20f
 origins of, 1
 rules for, 53–64
Mobile dental video. *See* Dental video.
Mobile eye photography, 93, 93f–94f
Multishot/frame noise reduction, 26

O

Occlusal mirror, 31
Occlusal photographs, 49, 50f, 75f, 79f, 80
Occlusal retractors, 57, 57f
One-sided retracting retractors, 29, 30f
Optical zooming, 26, 63, 103, 105f

P

Patient
 dental technician and, 5–6
 smartphone camera and, distance
 between, 60, 60f
Photo-CAD retractors, 30, 30f, 58f, 74, 74f
Photo-editing, 86, 88f, 92, 92f, 97
Photographs
 anterior. *See* Anterior photographs.
 artistic. *See* Artistic photographs.
 “before and after,” 11, 113f
 bending hands while taking, 64, 65f

birefringence. *See* Birefringence
 photographs.
 of color guide, 6, 7f
 cropping of, 61, 62f, 88, 88f
 documentation uses of, 4f, 5, 108, 110f–111f
 folder-based organization of, 5
 history of, 1
 insurance uses of, 12
 intraoral. *See* Intraoral photographs.
 lateral. *See* Lateral photographs.
 lecture uses of, 8, 8f
 medicolegal uses of, 12
 occlusal. *See* Occlusal photographs.
 patient–dental technician
 communication uses of, 5–6
 polarized, 80, 81f
 posterior. *See* Posterior photographs.
 second opinions using, 3
 self-evaluation uses of, 4f, 5
 smile design uses of, 3
 treatment planning uses of, 3, 4f
Pixels, 24
Polarized filters, 96, 96f, 115f
Polarized images
 applications of, 38–40, 39f–40f
 in posterior region, 40, 41f
Polarized light
 description of, 37, 37f
 shade matching uses of, 108
 Smile Lite MDP device, 48, 48f
Polarized photographs, 80, 81f
Polarizers
 for anterior incisal anatomy, 70
 central light with, 47, 48f
 description of, 32, 33f, 37f, 37–38
Portraits
 accessories for, 84
 background for, 84, 84f–85f
 camera positioning for, 84, 84f
 contrast in, 84, 85f
 half-illuminated, 86–89, 86f–89f
 light for, 85, 85f, 115f
 operator positioning for, 83, 83f
Posterior photographs
 applications of, 108, 109f
 camera positioning for, 74, 74f
 description of, 29, 30f, 40
 direct, 49, 49f, 73f
 indirect, 49, 49f
 operator positioning for, 73, 73f
 Smile Lite MDP, 48–49, 49f
Publishing, 8f, 8–10



R

Radiographs
 analog, digitizing of, 113f
 medicolegal uses of, 12
 .RAW, 26
 Reflective cross polarization, 38, 38f
 Retina, 35, 35f
 Retraction
 fingers used for, 63, 64f
 retractors used for. *See* Retractors.
 Retractors
 anterior MDP uses of, 67, 69f
 Photo-CAD, 30, 30f, 58f, 74, 74f
 uses for, 29, 30f, 57, 57f–58f
 V-shaped, 76, 77f
 Ring flash, 43, 45f, 47, 47f

S

Samsung Dual Aperture (f/1.5-f2.4), 35
 Self-evaluation, 4f, 5
 Self-retracting retractors, 29, 30f
 Sensor, 24, 24f
 Shade, 40, 40f
 Shade guide, 6, 7f
 Shade matching, 43, 108, 108f
 Shadows, 85, 85f
 Shutter speed, 25, 25f
 Smartphone(s)
 Android, 54–55, 55f
 apps on, 18, 19f
 cost-effectiveness of, 17, 18f
 dental uses of, 1
 flash on, 63, 64f
 folder-based organization of, 5
 holding of, 54
 iPhone, 55, 56f
 preparation of, 53
 prevalence of, 1

Smile Lite MDP on, 46f
 technological innovations of, 1
 weight of, 17
 Smartphone camera
 for anterior photographs, 67, 69f
 aperture of, 25, 25f
 for dental video, 102–103, 103f–105f
 diaphragm of, 35f
 high dynamic range in, 90
 for lateral photographs, 76
 lenses of, 25–26
 light of, 19, 20f
 megapixel count of, 24
 patient and, distance between, 60, 60f
 for portraits, 84, 84f
 for posterior photographs, 74, 74f
 sensor of, 24, 24f
 shade matching uses of, 43
 shutter speed of, 25, 25f
 specifications of, 23f–26f, 23–26
 teeth and, distance between, 58, 58f–59f
 for 12 O'clock photograph, 78, 78f–79f
 Smile design, 3, 102, 108, 112f
 Smile Lite MDP
 central light, 47, 48f
 description of, 17, 18f, 43
 device, 45, 45f–46f
 diffused light, 48, 48f
 filter with, 80
 Flex Arm, 102, 102f
 full light, 49, 50f
 full-face photographs with, 49, 51f
 lateral lights, 47, 48f
 lateral photographs with, 49, 50f
 LED lights, 45
 occlusal photographs with, 49, 50f
 polarized light, 48, 48f
 posterior photographs, 48–49, 49f
 ring flash, 43, 45f, 47, 47f

shade matching uses of, 43
 smartphone adaptor for, 45
 twin flash effect of, 47, 47f
 white balance adjustments, 54–55, 55f–56f

T

TCP. *See* Transmissive cross polarization.
 Teeth
 anterior. *See* Anterior photographs.
 posterior. *See* Posterior photographs.
 smartphone camera and, distance between, 58, 58f–59f
 Transmissive cross polarization, 37, 37f
 Treatment
 evolution of, 6, 7f
 photographs used in, 5
 Treatment planning, 3, 4f, 6
 12 O'clock photograph, 78–80, 78f–80f

V

Visible light, 35
 V-shaped retractors, 76, 77f

W

White balance, 54–55, 55f–56f, 84
 White lesions, 38, 39f
 Wide-angle lens, 26

Z

Zoom/zooming
 description of, 26, 61–63, 62f
 digital, 63, 103, 105f
 optical, 26, 63, 103, 105f