TABLE 1 FDA-APPROVED INDICATIONS FOR EXCIMER LASER REFRACTIVE SURGERY

Company (Model)	PRK for Myopia and Astigmatism	LASIK for Myopia and Astigmatism	PRK for Hyperopia and Astigmatism	LASIK for Hyperopia and Astigmatism	Mixed Astigmatism
Alcon (Apex & Apex Plus)	Myopia from –1.5 to –7.0 D (P930034; 10/25/95)				
Alcon (Apex Plus)	Myopia from –1.0 to –6.0 D with or without astigmatism from –1.0 to –4.0 D (P930034/S9; 3/11/98)	Myopia less than –14.0 D with or without astigmatism from 0.5 to 5.0 D (P930034/S13; 10/21/99)	Hyperopia from +1.5 to +4.0 D with or without astigmatism less than –1.0 D (P930034/S12; 10/21/99)		
Alcon (LADARVision)	Myopia from –1.0 to –10.0 D with or without astigmatism less than –4.0 D (P970043; 11/2/98)	Myopia less than –9.0 D with or without astigmatism from –0.5 to –3.0 D (P970043/S5; 5/9/00)		Hyperopia less than 6.0 D with or without astigmatism less than –6.0 D (P970043/S7; 9/22/00)	Mixed astigmatism less than +6.0 D sphere with less than –6.0 D cylinder (P970043/S7; 9/22/00)
Alcon (LADARVision) wavefront-guided		Myopia up to –7.0 D with or without astigmatism less than 0.5 D (P970043/S10; 10/18/02) Myopic astigmatism up to –8.00 D sphere with –0.5 D to –4.0 D cylinder and up to –8.00 D SE at the spectacle plane (P970043/S15; 6/29/04)		Hyperopia less than +5.0 D with or without astigmatism less than –3.0 D	Mixed astigmatism from 1.0 to 5.0 D; cylinder is greater than sphere and of opposite sign
Bausch & Lomb Surgical (KERACOR 116)	Myopia from –1.5 to –7.0 D with or without astigmatism less than –4.5 D (P970056; 9/28/99)				
Bausch & Lomb Surgical (Technolas 217a)		Myopia from less than –11.0 D with or without astigmatism less than –3.0 D (P99027; 2/23/00)		Hyperopia between 1.0 and 4.0 D with or without astigmatism up to 2.0 D (P99027/S4; 2/25/03)	
Bausch & Lomb Surgical (Technolas 217z) wavefront-guided		Myopia up to –7.0 D with or without astigmatism up to –3.0 D (P99027/S6; 10/10/03)			

Company (Model)	PRK for Myopia and Astigmatism	LASIK for Myopia and Astigmatism	PRK for Hyperopia and Astigmatism	LASIK for Hyperopia and Astigmatism	Mixed Astigmatism
Carl Zeiss Meditec (MEL 80)		Myopia ≤ –7.0 D with or without astigmatism ≤ –3.0 D (P060004; 8/11/06)			
LaserSight (LaserScan LSX)	Myopia from –1.0 to –6.0 D with or without astigmatism less than 1.0 D (P980008; 11/12/99)	Myopia from –0.5 to –6.0 D with or without astigmatism ≤4.5 D (P980008/S5; 9/28/01)			
VISX (Model B & C [Star & Star S2])	Myopia from 0 to –6.0 D (P930016; 3/27/96) Myopia from 0 to –6.0 D with or without astigmatism from –0.75 to –4.0 D (P930016/S3; 4/24/97) Myopia from 0 to –12.0 D with or without astigmatism from 0 to –4.0 D (P930016/S5; 1/29/98)				
VISX (Star S2)		Myopia less than –14.0 D with or without astigmatism between –0.5 and –5.0 D (P990010; 11/19/99)	Hyperopia from +1.0 to +6.0 D (P930016/S7; 11/2/98)		
VISX (Star S2/S3)			Hyperopia from +0.5 to +5.0 D with or without astigmatism +0.5 to +4.0 D (P930016/S10; 10/18/00)	Hyperopia between +0.5 and +5.0 D with or without astigmatism up to +3.0 D (P930016/S12; 4/27/01)	Mixed astigmatism up to 6.0 D; cylinder is greater than sphere and of opposite sign (P930016/S14; 11/16/01)
VISX (Star S3, EyeTracker)		Myopia less than –14.0 D with or without astigmatism between –0.5 and –5.0 D with eye tracker (P990010/S1; 4/20/00)			
VISX (Star S4 & WaveScan WaveFront System) wavefront-guided		Myopia up to –6.0 D with or without astigmatism up to –3.0 D (P930016/S16; 5/23/03) Myopia from –6.0 to –11.0 D with or without astigmatism up to –3.0 D (P930016/S21; 8/30/05)		Hyperopia up to +3.00 D with or without astigmatism up to +2.00 D (P930016/S17; 12/14/04)	Mixed astigmatism from 1.0 to 5.0 D (P930016/S20; 3/17/05)

Company (Model)	PRK for Myopia and Astigmatism	LASIK for Myopia and Astigmatism	PRK for Hyperopia and Astigmatism	LASIK for Hyperopia and Astigmatism	Mixed Astigmatism
WaveLight (ALLEGRETTO WAVE)		Myopia up to –12.0 D with or without astigmatism up to –6.0 D (P020050; 10/07/03)		Hyperopia up to +6.0 D with or without astigmatism up to +5.0 D (P030008; 10/10/03)	Mixed astigmatism up to 6.0 D at the spectacle plane (P030008/S4; 4/19/06)
WaveLight (ALLEGRETTO WAVE Eye-Q) wavefront optimized		Myopia up to –12.0 D with or without astigmatism up to –6.0 D (P020050/S003; 6/16/06)		Hyperopia up to 6.0 D with up to +5.0 D of astigmatism not exceeding a mean SE of +6D (P020050/S003; 6/16/06)	Reduction or elimination of naturally occurring mixed astigmatism up to 6.0 D at the spectacle plane (P030008/S005; 4/9/07)
WaveLight (ALLEGRETTO WAVE) wavefront-guided		Myopia up to –7.0 D with up to –7.0 D of spherical component and up to 3.0 D astigmatic component (P020050/S4; 7/26/06)			

D = diopter; LASIK = laser in situ keratomileusis; PRK = photorefractive keratectomy; SE = spherical equivalent

SOURCE: http://www.accessdata.fda.gov/scripts/cdrh/devicesatfda/index.cfm, accessed October 6, 2007.