HARMONY®XL

The Leader in Expandable
Multi-Application Technology

Alma Lasers®
Wellbeing Through Technology®

HARMONY®XL

The Leader in Expandable
Multi-Application Technology

No device will do more than the Harmony^{XL} to help you successfully attract, treat and retain the broadest range of clients to grow your practice profitably.

- Ten distinct technologies, many with integrated contact cooling
- 60+ aesthetic/medical applications
- High output energy for greater efficacy
- Expandable and upgradeable
- Includes components for Laser360™ skin rejuvenation
- High patient and clinical staff satisfaction
- Easily transportable from room to room and between facilities

Today's aesthetic patients have a wide variety of needs. Now you can successfully meet them all with Harmony®^{XL}. The Harmony^{XL} is the world's most expandable platform for aesthetic laser and light treatments. Modular in design, it uses up to ten distinct technologies built into one compact unit, and the multi-application system can treat more than 60 different aesthetic conditions. Key parameters of every output can be precisely controlled for any therapeutic level. Best of all, you can always upgrade your Harmony^{XL} to include future technologies still in development.

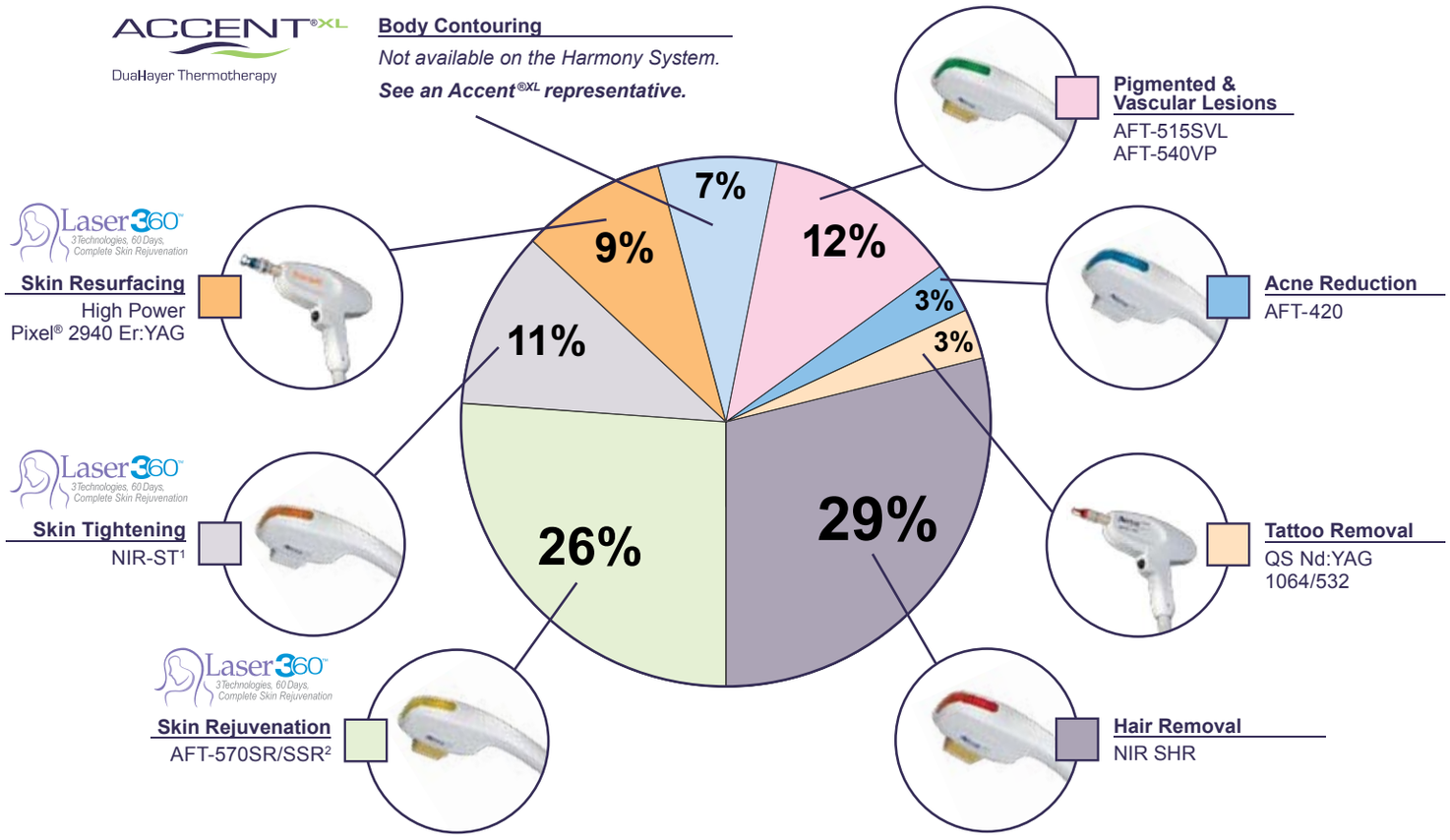
Over 60 different applications

The Harmony^{XL} gives you ultimate flexibility to treat a wide variety of patient-requested procedures. The platform expands to include the technologies most relevant to your practice and needs, so it can grow with you as your practice grows.

Modular handpieces make the difference

All the Harmony^{XL} handpieces are designed for minimal or no discomfort to the patient, with no loss of effectiveness. Use them in combination for a wide variety of treatment options. One of the most popular options is the Laser360 protocol for easy skin rejuvenation. The relatively new procedure uses 3 handpieces from the Harmony^{XL} system to treat a wide range of age and photo-damage symptoms. Patients achieve outstanding results in just 60 days, with minimal or no downtime.

Popularity of Aesthetic Procedures



“ The Harmony System has been the ‘hub’ of our laser services. The quality of the treatments is real and palpable. Our patients line up to get their spots removed with our AFT system and to have their face resurfaced with our Pixel. They get a super deep treatment with great results and minimal down time.”

John Hamel, MD
Founder and Owner of Complete Laser Clinic since 2003

[1] Indicated for photothermolysis (photocoagulation or coagulation) of soft tissue and other aesthetic conditions
[2] Indicated for the treatment of benign cutaneous vascular and benign pigmented epidermal lesions including dyschromia and other aesthetic conditions

State-of-the-Art Technologies

Harmony^{XL} delivers the latest in technical performance with an unrivaled edge: modularity and upgradeability. Buy only the technologies you need now, and expand as you expand the scope of your aesthetic practice. Because the technology is in the handpieces (not the system), an expansion or upgrade is simple and quick. Even more, the system features a detachable design where the top and bottom split apart. This innovation makes it very easy to move Harmony^{XL} from room to room.

The Alma Lasers difference IN-Motion™

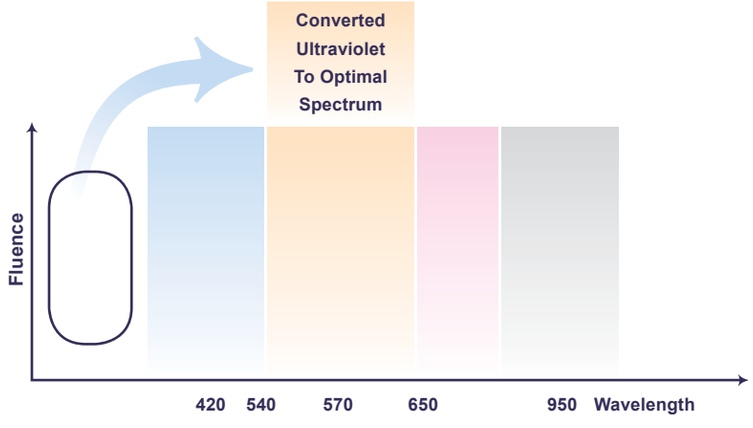
Harmony^{XL} accommodates Advanced Fluorescence Technology (AFT) pulsed light and laser technology in the same system. Its high power allows for higher fluence treatments—but patient comfort is optimized through the proprietary IN-Motion™ technology, unique to Alma Lasers. For additional patient comfort, you also have your choice of contact-cooled or non-cooled handpieces.

Exclusive to Alma Lasers, Harmony^{XL} boasts the Pixel® technology—a breakthrough for fractionated ablative treatments. In addition, you can include one or all of the following technologies to expand your service options:

- **Advanced Fluorescence** pulsed light for the treatment of acne, vascular and pigmented lesions, leading to skin rejuvenation. **NEW!** Now available with integrated contact cooling
- **Near Infrared** for deep dermal heating and **NEW** virtually pain-free hair removal
- **High Power Pixel® 2940 Er:YAG** for fractionated ablative skin resurfacing of mild age and photo-damaged skin, as well as for minimally ablative resurfacing procedures
- **Long-pulse 1064 Nd:YAG** for leg veins and other vascular lesions
- **Pulsed UVB** for restoration of lost pigment and psoriasis
- **Q-Switched Nd:YAG** for dark colored tattoo removal and dermal pigmented lesions
- **Frequency Doubled Nd:YAG** for lighter colored tattoo treatment
- **Long-pulse 1320 Nd:YAG** for the non-ablative treatment of facial wrinkles to improve the appearance of photo-aged skin
- **NEW! LED handpiece** for topical heating leading to increased blood flow, temporary relaxation of muscles and relief of pain

AFT spectral conversion

AFT takes formerly unused short-wavelength light and converts it into part of the usable spectrum.



Alma Lasers®

Laser360™

3 Technologies, 60 Days, Complete Skin Rejuvenation

Take the guesswork out of laser aesthetics

Whatever your medical specialty, Alma Lasers has made it easy for all physicians to offer light-based aesthetic services through a treatment protocol that uses Harmony^{XL} technologies called Laser360™.

Laser360 is a popular and very easy way to help improve a patient's skin color, texture, tone and laxity. It uses 3 technologies, takes 60 days and offers a complete range of skin rejuvenation results.

Laser360 meets the key needs of an aging patient's skin, and it can be customized to meet each patient's specific needs. Use it to treat areas such as the face, neck, chest, and hands, or anywhere the skin has been touched by age or photo-damage.

Laser360

Before

After

Photos courtesy of: Rick Jackson, MD

How Laser360 treats the most common age-related skin complaints

Color with Advanced Fluorescence Technology (AFT)

Treat superficial vascular and pigmented irregularities to improve a patient's skin color. You'll use a series of approximately five treatments using one of the **AFT handpieces** on Harmony^{XL}:

- SR/SR (cooled)(skin rejuvenation)
- SVL/SVL (cooled)(superficial vascular/pigmented)
- VP/VP (cooled)(vascular/pigmented lesions)

Technologies In Depth: AFT

AFT is the next generation of intense pulsed light. It takes formerly unused short-wavelength light and converts it into part of the usable spectrum through a special filtering system. It increases emission and penetration, for safer and more effective treatments.

AFT also delivers Equally Distributed Fluence, which means that every pulse has uniform energy density across the entire output face. This fluence ensures repeatable results and remarkable safety.

AFT yields a more efficient system for ideal clinical improvements, less discomfort and minimal skin damage.

Skin Color Handpieces							
Handpiece	**Applications**	**Technology**	**Wavelength (nm)**	**Pulse Widths/ Mode**	**Spot Size**	**Pulse Repetition Rate (Hz)**	**Energy Density**
SVL	Superficial vascular lesions	AFT	515 – 950	10, 12, 15 ms	6.4 cm^2	2/3	5 – 25 J/cm^2
SVL (cooled)	Superficial vascular lesions	AFT	515 – 950	10, 12, 15 ms	3 cm^2	2/3	5 – 30 J/cm^2
VP	Vascular and pigmented lesions	AFT	540 – 950	10, 12, 15 ms	6.4 cm^2	2/3	5 – 25 J/cm^2
VP (cooled)	Vascular and pigmented lesions	AFT	540 – 950	10, 12, 15 ms	3 cm^2	2/3	5 – 25 J/cm^2
SR	Skin rejuvenation	AFT	570 – 950	10, 12, 15 ms	6.4 cm^2	2/3	5 – 25 J/cm^2
SR (cooled)	Skin rejuvenation	AFT	570 – 950	10, 12, 15 ms	3 cm^2	2/3	5 – 30 J/cm^2

Texture and tone

Give your patients a more youthful appearance with the High Power **Pixel 2940 skin resurfacing laser** on Harmony^{XL}. A series of two to four virtually pain-free treatments will gradually stimulate new cells to replace aged and photo-damaged skin, with little patient downtime.

Technologies In Depth: Pixel

With the High Power **Pixel 2940**, preprogrammed laser energy passes through the patented Pixel micro optics lens array and penetrates the skin, affecting just 15 – 20 percent of the surface. It creates an ablative thermal channel at the pixel area—a micro-injury—without disturbing the surrounding tissue. Those micro-injured areas start the process of healing and the untreated area acts as a reservoir for rapid restoration. As collagen remodels, skin tightens and texture improves.

The gentleness of the procedure allows delicate areas such as the neck, chest and hands to be treated as safely as the face with little risk of infection. There is little downtime or discomfort, and no analgesia, gels or other disposables are required.

Before

After

Photos courtesy of: Guilherme Olsen de Almeida, MD

Pixel 2940 for fractionated ablation

With the Pixel 2940, the ablation zone is 9 x 9 mm in size, with a penetration depth of 20 – 150 µm. The handpiece operator can decide the appropriate dot pattern.

Skin Texture and Tone Handpiece							
Handpiece	**Applications**	**Technology**	**Wavelength (nm)**	**Pulse Widths/ Mode**	**Spot Size**	**Pulse Repetition Rate (Hz)**	**Energy Density**
High Power Pixel 2940	Fractional ablative skin resurfacing	Fractionated Er:YAG	2940	Short, Medium, Long	7 x 7 mm Pixels 9 x 9 mm Pixels	2	300 – 2500 mJ/P
	Skin resurfacing, laser peel	Er:YAG		Gentle Peel (1 – 20 µm)	1, 4 mm	5	Up to 1200 mJ/P
				Skin Remodeling (10 – 350 µm)			
				Surgi-Light (cutting)			

“ Alma Lasers has definitely given me the most amazing procedure I can offer my patients. Laser360’s unique combination of technologies provides fast, effective skin rejuvenation with results my patients and I can count on.”

Eduardo Weiss, MD
Hollywood Dermatology & Cosmetic Specialists

Before

After

Photos courtesy of: Ilan Karavani, MD

Tightening

Deliver deep dermal heating that induces neocollagenesis using the **Near-infrared ST handpiece** on Harmony^{XL}. A series of three to six treatments produces a tighter, fresher appearance—without pain or invasive procedures.

Technologies In Depth: ST

The near infrared ST handpiece delivers uniform energy distribution and effectively targets lipids and connective tissue. It exerts its biological effect on the skin through two major mechanisms:

- Heat-induced collagen shrinkage and micro-thermal injury
- Dermal regeneration, repair (healing) and remodeling

The ST handpiece produces dramatic, yet comfortable deep dermal heating without damage to the epidermis.

Skin Tightening Handpiece

Handpiece	Applications	Technology	Wavelength (nm)	Pulse Widths/ Mode	Spot Size	Pulse Repetition Rate (Hz)	Energy Density
ST	Dermal heating	NIR	780 – 950	10, 30, 90 s	6.4 cm^2	3	1 – 7 J/cm^3

Hair Removal & More

In-Demand Applications

Hair removal

Hair removal is the most popular light-based aesthetic procedure in the world. Using a novel **650 – 950 nm AFT handpiece**, Harmony^{XL} can deliver fast, effective results for permanent hair reduction on all skin types, including tanned skin. This **SHR handpiece** now has contact cooling and uses IN-Motion™ technology for virtually pain-free procedures with no downtime—Alma Lasers' remarkable Pain Free, Hair Free™ procedure.

How it works

To perform light-based hair removal, a large rectangular window emitting broad-spectrum light is applied to the surface of the skin. The energy travels harmlessly through the epidermis and dermis until it strikes the hair follicle, which contains a dense, melanin-rich hair shaft and bulb.

The dark-colored melanin absorbs the light and rises quickly in temperature, destroying the hair-producing cells surrounding the follicle. Because the heat is not sustained, however, no damage occurs outside the follicle area.

Before

After

Photos courtesy of: Arie Orenstien, MD

IN-Motion™ Technology removes pain

IN-Motion Technology represents a breakthrough in patient comfort, speed of procedures and repeatable clinical results. Why? Because the high peak energies used in traditional photoepilation technology must have high cooling before, during and after each pulse and therefore the handpiece must be stationary during the energy delivery.

Alma Lasers' unique IN-Motion technology combines concurrent cooling with a *gradual* thermal rise to the target's therapeutic temperature, without the risk of injury and with much less pain for the patient.

IN-Motion™

Hair Removal Handpieces							
Handpieces	**Applications**	**Technology**	**Wavelength (nm)**	**Pulse Widths/ Modes**	**Spot Size (cm^2)**	**Pulse Repetition Rate (Hz)**	**Energy Density (J/cm^2)**
SHR (cooled)	Pain-free hair removal	AFT	650 – 950	1, 3 & 30 s	3	3	1 – 7

Acne

Clear inflammatory acne lesions without drugs or undesirable side effects, with the **AFT Acne Handpiece**. Intense blue wavelengths in the range of 420 – 950 nm target the porphyrins produced as part of the normal metabolism of p. acnes bacteria. The interaction of the intense blue light and the porphyrins creates singlet oxygen that rapidly destroys the bacteria without damaging the surrounding tissue.

Acne treatments with AFT are:

- Non-invasive
- No topical or systemic drugs
- Completely painless, no adverse effects or downtime
- Easy to administer with an ergonomic handpiece design

Before

After

Photos courtesy of: Michael Shohat, MD

Acne Handpiece							
Handpieces	**Applications**	**Technology**	**Wavelength (nm)**	**Pulse Widths/ Modes**	**Spot Size (cm^2)**	**Pulse Repetition Rate (Hz)**	**Energy Density (J/cm^2)**
Acne	Acne	AFT	420 – 950	30, 40, 50 ms	6.4	2/3	5 – 25

Medical Applications

Symptoms of Rosecea

Before

After

Photos courtesy of: E. Follador MD, F. Marini MD, D. D'angelo MD

Vascular and pigmented lesions

Four handpieces on Harmony^{XL} can treat a wide range of vascular and pigmented lesions, as well as other skin abnormalities. These types of applications are typically treated in a dermatologic or other traditional medical setting.

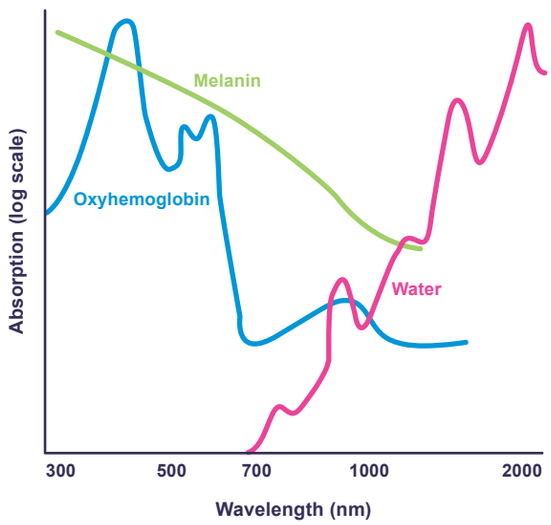
The **AFT VP and the new, cooled VP handpieces** take advantage of strong absorption of both melanin and oxyhemoglobin in the 540 – 600 nm range. They successfully treat many vascular and pigmented lesions such as:

- Port wine stains, hemangiomas, telangeictasias, symptoms of rosacea, angiomas and Poikiloderma of Civatte
- Lentigos, melasma, seborriheic keratoses, café-au-lait, dyschromia, ephelides and dyspigmentation

For superficial lesions, shifting much of the energy to shorter wavelengths that still have strong melanin/oxyhemoglobin absorption—yet penetrate less deeply—the **SVL and new, cooled SVL handpieces** offer superior performance.

For stubborn lesions, the SVL handpieces complement the VP handpieces to offer additional range.

Melanin/Oxyhemoglobin absorption curves



Leg veins

Treat leg veins with long-pulsed 1064-nm light. The **Nd:YAG 1064 laser handpiece** coagulates and destroys large, deep, yet cosmetically unacceptable blood vessels and leg veins without the use of chemicals or needles. This easy-to-use, ergonomic handpiece effectively coagulates oxygenated reddish telangiectasias, as well as deoxygenated bluish venule ectasia and reticular veins up to 4 mm diameter.

Dermatoses

The **UVB handpiece** uses high-power, spectral irradiance in the UVB and UVA wavebands to target and treat dermatoses such as psoriasis, leukoderma, vitiligo, stretch marks (striae distenase), atopic dermatitis (eczema), seborrheic dermatitis and hypopigmented scars.

The treatment is much faster than either PUVA or UVB phototherapy. It involves no drugs and treats only specific areas to avoid exposure to healthy tissue.

NEW! Promote healing

The new **LED handpiece** incorporates an array of diodes that emit yellow light at 590 nm for general body healing. The clinical indications of the LED 590-nm handpiece include:

- Topical heating to promote increased blood flow
- Temporary relaxation of muscles
- Relief of pain

Non-Laser Handpieces

Handpiece	Applications	Technology	Wavelength (nm)	Pulse Widths/ Timers	Spot Size (cm^2)	Pulse Repetition Rate (Hz)	Energy Density (J/cm^2)
SVL	Superficial vascular lesions	AFT	515 – 950	10, 12, 15 ms	6.4	2/3	5 – 25
SVL (cooled)	Superficial vascular lesions	AFT	515 – 950	10, 12, 15 ms	3	2/3	5 – 30
VP	Vascular and pigmented lesions	AFT	540 – 950	10, 12, 15 ms	6.4	2/3	5 – 25
VP (cooled)	Vascular and pigmented lesions	AFT	540 – 950	10, 12, 15 ms	3	2/3	5 – 30
UVB	Dermatology conditions	UVB	300 – 380	30, 40, 50 ms	6.4	1/6	0.2 – 1.0
LED	Dermal Heating	LED	590	Repeat	8.4	Up to 70s	1.5 W
				30, 40, 50 ms		Up to 70 min	

Laser Handpieces

Handpiece	Applications	Technology	Wavelength (nm)	Pulse Width / Mode	Spot Size (mm)	Pulse Frequency (Hz)	Energy Density/ Fluence
Long-pulse 1064 Nd:YAG	Vascular lesions	Nd:YAG	1064	10 ms	2	1	30 – 450 J/cm^2
	Leg veins			15, 45, 600 ms	6		30 – 150 J/cm^2

Other Applications

Tattoos

The **Q-Switched Nd:YAG handpiece** on Harmony^{XL} uses two discrete wavelengths to treat a broad range of tattoo colors, including:

- Dark colors like black, blue and green with 1064-nm wavelength
- Brighter colors like red, orange and yellow with 532-nm wavelength

How it works

Tattoo ink and natural pigmentation like melanin absorb short pulse duration/high peak energy Q-switched pulses so quickly that they create a photo-acoustic effect within the pigment clusters. This effect breaks down the ink into much smaller particles that can be more easily removed by the body's natural filtering system.

Tattoo removal typically requires six to eight or more treatments, spaced approximately six to eight weeks apart. Using the Q-Switched Nd:YAG handpiece on Harmony^{XL} means those treatments are:

- Easy to administer—simple to switch between wavelengths
- Customizable with a wide assortment of spot sizes, along with Quick Snap disposable tips that protect against cross contamination
- Also able to treat dermal pigmented lesions such as nevus of Ota

" Alma Lasers uses state-of-the-art technology combined with intelligent flexible platforms. The laser heads are easily interchangebable on the Harmony^{XL}. Their technical support is superior and cost savings, not to mention the clinical results, have been most impressive."

Victoria A. Cirillo-Hyland, MD
Cirillo Cosmetic Dermatology Spa

Tattoo Removal

Before *After*

Photos courtesy of: Arie Orenstien, MD

Textural Improvements

Before *After*

Photos courtesy of: BCK Patel, MD, FACS

1320 Nd:YAG

Use the **1320 Nd:YAG handpiece** to treat fine lines, wrinkles and photo-aged skin, as well as mild acne scars. When used to treat aesthetic imperfections—including periorbital and perioral wrinkles—the 1320nm wavelength achieves deep penetration and targets selected water-containing tissue by raising the dermal temperature.

How it works

With the 1320 Nd:YAG handpiece, you have

- Immediate readiness: preprogrammed pulse width and repetition rates mean faster treatments with no down time
- Easy to administer with an ergonomic handpiece design
- Improved patient results: lightweight design improves accuracy
- Proper ergonomic design: prevent repetitive-motion fatigue
- Peace of mind: standard safety features prevent accidental double triggering
- Flexibility to combine treatment modules: fully-interchangeable handpiece connects quickly to the Harmony^{XL} platform, making it easy to switch between handpieces

Laser Handpieces

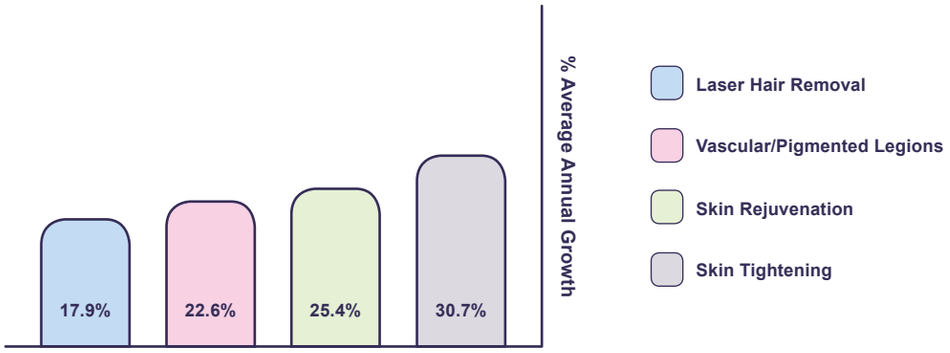
Handpiece	Applications	Technology	Wavelength (nm)	Pulse Width / Mode	Spot Size (mm)	Pulse Frequency (Hz)	Energy Density
Q-Switched Nd:YAG	Dark-ink tattoo removal	Q-Switched Nd:YAG	1064	20 ns	1 – 6	1, 2, 5	400 – 1200 mJ/p
	Light-ink tattoo removal	Frequency Doubled Q-Switched Nd:YAG	532		2		
1320 Nd:YAG	Acne scars, wrinkles, rejuvenation	Nd:YAG	1320	30, 40, 50 ms	6	1	5 – 40 J/cm^2

A Prime Opportunity: Aesthetic Medicine

There are countless social reasons for a current surge in the popularity of cosmetic procedures: an aging population, a strong economy and a celebrity culture that values youthful attractiveness, to name a few.

A number of scientific, medical breakthroughs, however, have also contributed to the incredible rise of aesthetic medicine's popularity. These novel technologies—especially multifunctional, upgradeable systems such as Harmony^{XL}—have positioned this market for growth.

Aesthetic Market Growth 2006 – 2010



Aesthetic procedures will continue to increase in popularity.
Source: Millennium Research Group, 2006

A Significant Return

Just two to six patients a month can cover the cost of your Harmony^{XL} investment.

Harmony^{XL}, and especially the Laser360 procedure, represent the best opportunity for a growing aesthetic practice to take advantage of the trends in today's cosmetic marketplace. An investment in the Harmony^{XL} can provide the opportunity for a significant return. It:

- Incorporates today's most popular applications in a single system
- Reduces costs to add additional applications (even compared to the used market)
- Requires no consumables, which increases your profit margin

Harmony^{XL} Indications

- Acne vulgaris
- Actinic chelitis
- Atrophic acne scars
- Angiomas and spider angiomas
- Atopic dermatitis
- Back acne
- Becker's nevi
- Café-au-lait macules
- Cavernous hemangiomas
- Cherry hemangiomas
- Chloasma
- Cutaneous lesions
- Debulking benign tumors
- Debulking cysts
- Deep and superficial telangiectasias
- Dyschromia
- Ephelides (freckles)
- Epidermal nevi
- Erythema of rosecea
- Facial, truncal and leg telangiectasias
- Fine lines and wrinkles
- Hair removal on all skin types, including tanned skin
- Hemangiomas
- Hyperpigmentation
- Hypopigmentation
- Increased blood flow, relaxation of muscle and relief of pain
- Keloids
- Keratoses
- Leg veins
- Lentigines (senile and solar)
- Lentigos
- Leukoderma, including vitiligo
- Melasma
- Nevi
- Nevus of Ota
- Nevus spilus
- Perioral wrinkles
- Periorbital wrinkles
- Permanent hair reduction
- Pigmented lesions
- Poikiloderma of Civatte
- Plaques
- Pseudofolliculitis barbae
- Psoriasis treatment
- Port wine stains
- Reduction in red pigmentation in hypertrophic and keloid scars
- Reticular veins
- Rosecea
- Scars
- Seborrheic dermatitis
- Seborrheic keratoses
- Skin resurfacing
- Skin tags
- Solar lentigos
- Spider hemangiomas
- Spider nevi
- Spider veins
- Striae
- Superficial skin lesions
- Surgical incision/ excision, vaporization, ablation and coagulation of soft tissue
- Tattoo removal: black, blue, green
- Tattoo removal: light blue, yellow, red
- Telangiectasias
- Vascular lesions
- Venous lake
- Venous malformation
- Verrucae
- Warts

Specifications for Harmony^{XL}

Harmony^{XL} is designed to be a free-standing unit and uses a standard wall outlet. It transports easily from room to room or between facilities.

Electrical	100 – 120 VAC, 5 A, 50/60 Hz 220 – 240 VAC, 2.5 A, 50/60 Hz
Weight	133 lbs. (60 kg)
Dimensions (WxDxH)	15.7" x 21.7" x 48.5" (39.7 x 55 x 123 cm)

About Alma Lasers

Alma Lasers, Ltd. is a global developer, manufacturer and provider of laser, light-based and radiofrequency devices for aesthetic and medical applications. Since 1980, the founders of Alma Lasers have been at the forefront of innovative multi-technology / multi-application systems designed to meet the unique needs of today's practitioners.

Alma's mission is to provide modular, cost-effective and high-performance systems that enable practitioners to confidently offer safe, effective and profitable aesthetic treatments to their patients.

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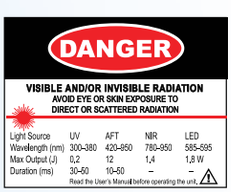

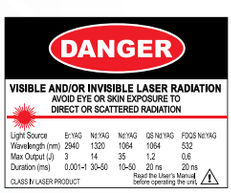

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