



# avedro

*The world leader in corneal cross-linking science and technology*



avedro

VibeX™

Treatment Activation

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VibeX Xtra™

Treatment Activation

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VibeX Rapid™

Treatment Activation

avedro

ParaCel™

Treatment Activation



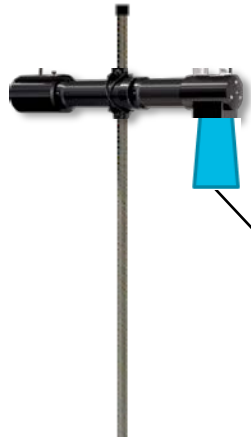
# Why Lasik Xtra Cross-Linking for Lasik?

- ✓ Strong refractive error (-6D or Greater)
- ✓ Hyperopic LASIK
- ✓ LASIK in patients younger than 22 years of age
- ✓ Thin cornea, less than 480 $\mu$ m preoperatively
- ✓ Borderline topography between LASIK and PRK
- ✓ Lasik Enhancement
- ✓ Unexpected thick flap

# Energy is Dependent on Power & Time

30 Min Exposure  
Typical UVA Light Source

3 mW/cm<sup>2</sup> x 30 min UVA

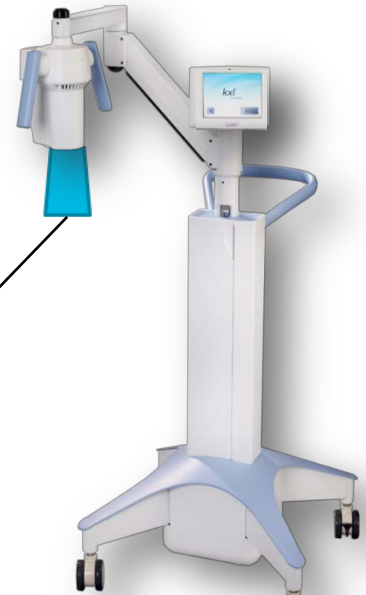


15 x Slower

Vs.

2 Min Exposure  
Avedro KXL System

45 mW/cm<sup>2</sup> x 2 min UVA



5.4 J/cm<sup>2</sup>  
Energy on Cornea

# Lasik Xtra, Practical *Only* With the KXL System Because ...



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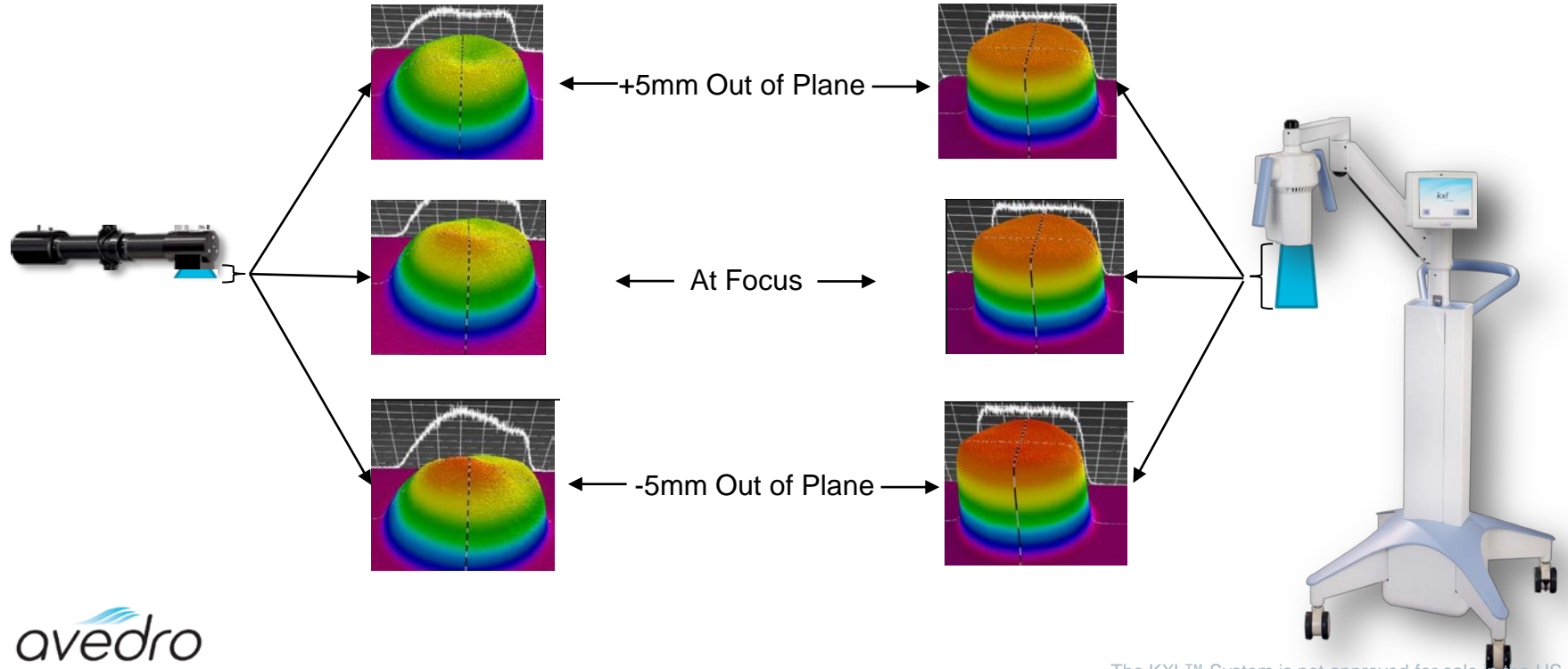
- **Highest power available**
- **Fastest procedure time**
- **Superior top hat beam profile**
- **Wireless alignment**
- **Stable delivery platform**
- **VibeX Xtra™ Riboflavin**

# Depth of Focus ...A Key to Performing Lasik Xtra

Narrow Depth  
of Focus Device

Vs.

Broad Depth  
of Focus Device



# Avedro in the News

## March 2012

**First and only company to submit a cross-linking NDA to FDA**

*VibeX™/KXL™ System for the treatment of  
keratoconus and ectasia following refractive surgery*





## April 2012

**Initiated 100 site study for accelerated cross-linking**

*In conjunction with ACOS to treat eyes with  
keratoconus or corneal ectasia after refractive surgery*

# Avedro's Family of Riboflavin Formulations ...

*For all Your Cross-Linking Requirements*

Name	Formulation	Procedure	Application
 <p>avedro VibeX™ Treatment Activation</p>	<p><b>0.1% Riboflavin 20% Dextran</b></p>	<p><b>Cross-Linking for Keratoconus &amp; Post-Lasik Ectasia</b></p>	<p><b>Epi-Off</b></p>
 <p>avedro VibeX Rapid™ Treatment Activation</p>	<p><b>0.1% Riboflavin HPMC</b></p>	<p><b>Cross-Linking for Keratoconus &amp; Post-Lasik Ectasia</b></p>	<p><b>Epi-Off</b></p>
 <p>avedro ParaCel™ Treatment Activation</p>	<p><b>0.25% Riboflavin HPMC, BAC EDTA, TRIS</b></p>	<p><b>Cross-Linking for Keratoconus &amp; Post-Lasik Ectasia</b></p>	<p><b>Epi-On</b></p>
 <p>avedro VibeX Xtra™ Treatment Activation</p>	<p><b>0.25% Riboflavin Saline</b></p>	<p><b>Lasik Xtra for Corneal Strengthening During Lasik</b></p>	<p><b>Stromal Bed</b></p>

None approved for sale in the US..