

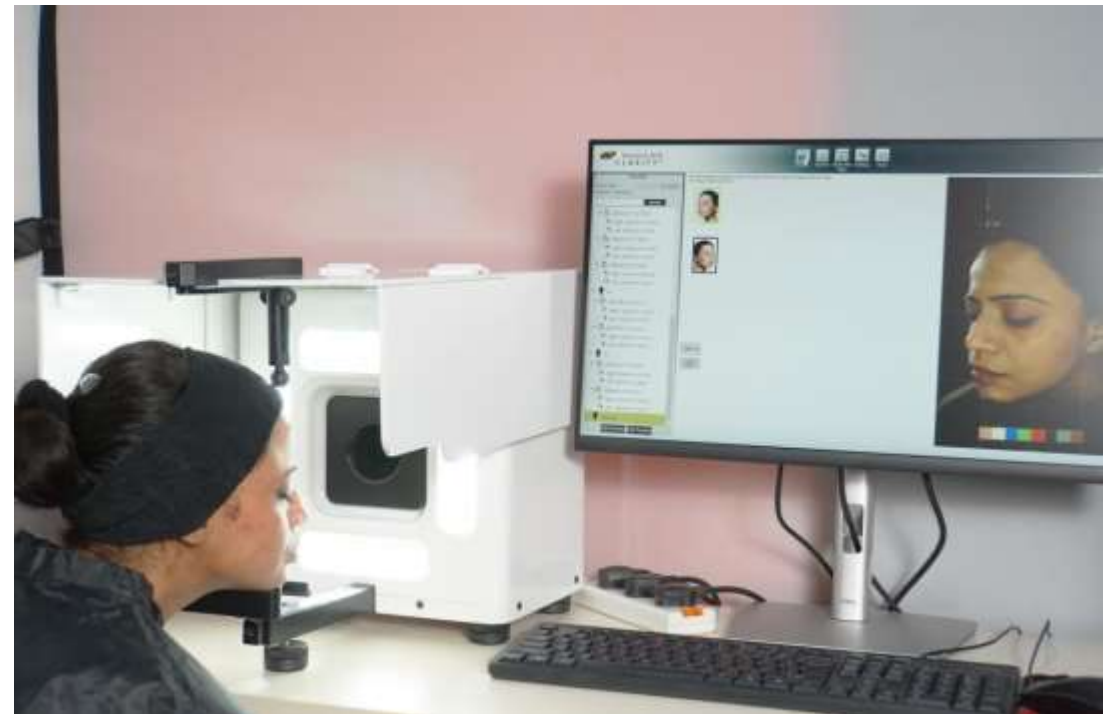
# *BrighTex Bio-Photonics* *(BTBP)*

Clarity 2D & 3D Research Image Analyzer System

## Clarity 2D & 3D Research Image Analyzer System

### Fields of Application

- Texture
- Pigmentation
- Wrinkles
- Redness
- Skin tone
- Pores



*BrighTex Bio-Photonics (BTBP)*  
Clarity 2D & 3D Research Image Analyzer System



Fields of Application contd...

- Under Eye Treatment
- Acne
- Melasma



# 3D SCANS TO MEASURE PORES



## BEFORE



3D MEASUREMENT

BASELINE

Average of SIDE Profiles

Average Roughness

5.753

## AFTER



3D MEASUREMENT

DAY 60

Average of SIDE Profiles

Average Roughness

5.284

# 3D-Pores Data Presentation


Clarity™ Research 3D System-Pores 2D- <span style="background-color: black; color: black;">XXXXXXXXXX</span> Mean					Mean Change from Baseline		
Parameter	Baseline	Day 21	Day 42	Day 60	Day 21	Day 42	Day 60
Surface Area (mm <sup>2</sup> )	197.711	177.742	190.918	192.938	-14.372 (p=0.2415)	-6.793 (p=0.7714)	-4.773 (p=0.9018)
Average Size (mm <sup>2</sup> )	0.237	0.231	0.234	0.237	-0.002 (p=0.9223)	0.000 (p=0.9987)	0.003 (p=0.7031)
Average Pore Contrast	25.094	24.349	24.741	25.050	<b>-0.668</b> <b>(p=0.0133)</b>	-0.353 (p=0.2813)	-0.044 (p=0.9946)

# 2D SCAN FOR TEXTURE




- Average Roughness
- Average RGB values
- Percent of Surface Area
- 3D Skin Topography

## BEFORE

 2D MEASUREMENT BASELINE

Average of Side Profiles	
Roughness	314.2

## AFTER

 2D MEASUREMENT DAY 60

Average of Side Profiles	
Roughness	281.5

# 2D SCAN FOR WRINKLES



- Total Count w/ Emerging, Fine and Deep Line Classification
- Average Length, Width & Severity
- Total Surface Area
- Volume

## BEFORE



2D MEASUREMENT

BASELINE

### Average of Side Profiles

Surface Area (mm <sup>2</sup> )	678.6
Surface Area (%)	19.91
Surface Severity	4159.1
Average Length (mm)	4.375
Average Width (mm)	1.099
Deep Wrinkles Surface Area ( % )	0.899
Fine Wrinkles Surface Area ( % )	4.026
Emerging Wrinkles Surface Area ( % )	14.99

## AFTER



2D MEASUREMENT

DAY 60

### Average of Side Profiles

Surface Area (mm <sup>2</sup> )	387.0
Surface Area (%)	11.44
Surface Severity	3982.2
Average Length (mm)	3.832
Average Width (mm)	1.170
Deep Wrinkles Surface Area ( % )	0.000
Fine Wrinkles Surface Area ( % )	1.906
Emerging Wrinkles Surface Area ( % )	9.538

# % Subjects Improved Data Representation

Parameter	Visit	% of Subject Showed Improvement	# Subject Showed improvement
Surface Area (mm <sup>2</sup> )	Day 21	43%	6
	Day 42	43%	6
	Day 60	29%	4
Surface Area (%)	Day 21	43%	6
	Day 42	43%	6
	Day 60	21%	3
Average Severity	Day 21	43%	6
	Day 42	43%	6
	Day 60	36%	5
Average Length (mm)	Day 21	50%	7
	Day 42	79%	11
	Day 60	57%	8
Average Width (mm)	Day 21	50%	7
	Day 42	50%	7
	Day 60	43%	6
Deep Wrinkles Surface Area (%)	Day 21	57%	8
	Day 42	64%	9
	Day 60	50%	7
Fine Wrinkles Surface Area (%)	Day 21	50%	7
	Day 42	36%	5
	Day 60	50%	7
Emerging Wrinkles Surface Area (%)	Day 21	29%	4
	Day 42	43%	6
	Day 60	36%	5

# PORES



- Pore Count
- Percentage of Surface Area
- Average Size, Diameter, Visibility, Circularity & Intensity
- Size Classification with Count & Distribution in 3 Categories
- Average Volume

## BEFORE



2D MEASUREMENT

BASELINE

Average of Side Profiles	
Surface Area (mm <sup>2</sup> )	134.2
Average Size (mm <sup>2</sup> )	0.223
Average Pore Contrast (0-255)	25.46

## AFTER



2D MEASUREMENT

DAY 60

Average of Side Profiles	
Surface Area (mm <sup>2</sup> )	102.6
Average Size (mm <sup>2</sup> )	0.204
Average Pore Contrast (0-255)	25.12

# SUB SURFACE PIGMENTATION



- Spot Count
- Percentage of Surface Area & Total Surface Area
- Intensity & Contrast
- Pigment Darkness

## BEFORE



2D MEASUREMENT

BASELINE

### Average of Side Profiles

Surface Area (mm <sup>2</sup> )	100.0
PigmentIntensity (0-255)	75.93
Pigment Darkness/Contrast (0-255)	3.723

## AFTER



2D MEASUREMENT

DAY 60

### Average of Side Profiles

Surface Area (mm <sup>2</sup> )	84.25
PigmentIntensity (0-255)	73.49
Pigment Darkness/Contrast (0-255)	3.819

# SKIN COLOR



- Skin Type classification from I-VI (Fitzpatrick)
- High Resolution BTBP skin type classification 1-50
- GB Average
- L\* a\* b\*

## BEFORE



2D MEASUREMENT

BASELINE

### Average of Side Profiles

a* (Redness)	48.28
L* (Radiance)	12.60

## AFTER



2D MEASUREMENT

DAY 60

### Average of Side Profiles

a* (Redness)	48.34
L* (Radiance)	11.89

# RADIANCE & REDNESS



- Luminance Delta
- $L^*$  from  $L^*a^*b$  color space

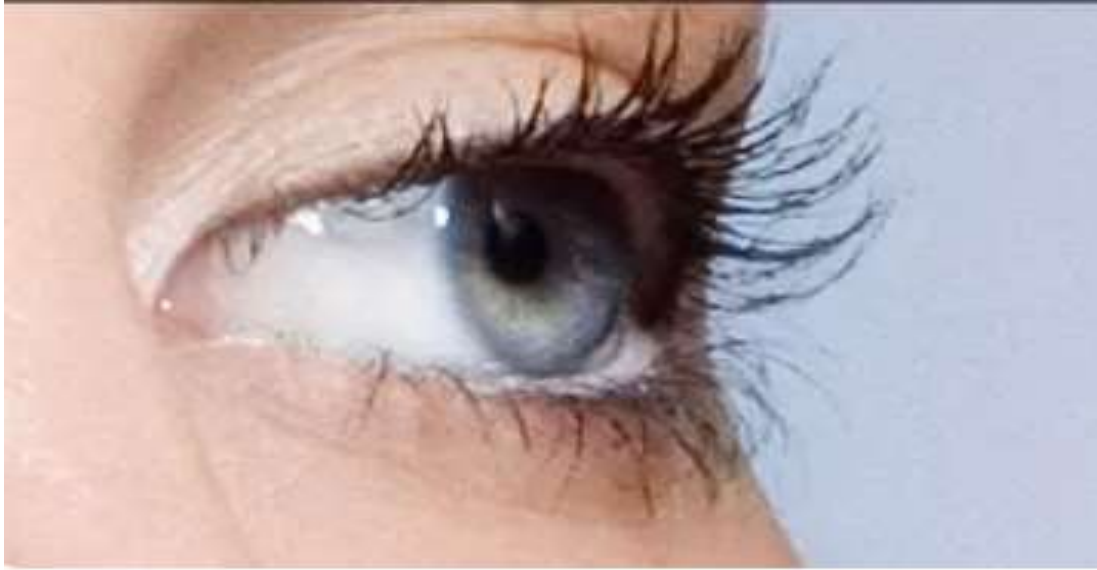
Parameter	Visit	% of Subject Showed Improvement	# Subject Showed improvement
$L^*$ (Radiance)	Day 21	36%	5
	Day 42	57%	8
	Day 60	43%	6
$a^*$ (Redness)	Day 21	79%	11
	Day 42	57%	8
	Day 60	29%	4

# Acne



- Active Acne Count & Visibility Scores
- Post Inflammatory Hyperpigmentation & Visibility Scores
- Acne 3D Topography

# EYES & EYE LASHES



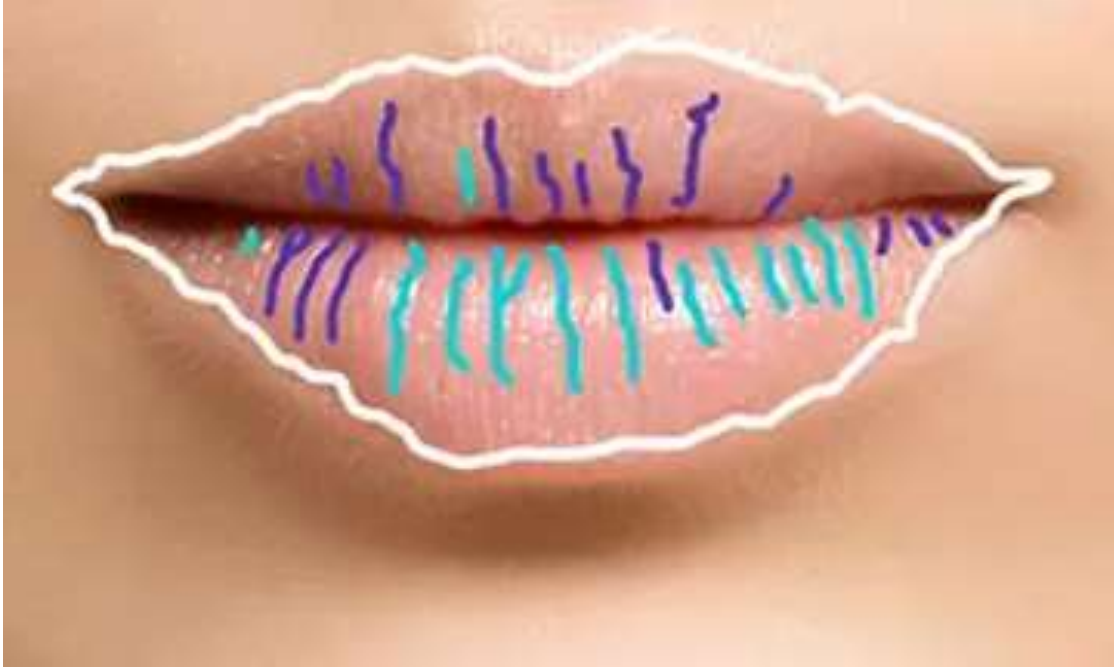
## EYE LASHES

- Lash density
- Maximum Length
- Average Length
- Lift Up Angle
- Curl Up Angle

## EYE AREA

- Under Eye & Crow's Feet Wrinkle Surface Area
- Under Eye Darkness ( $L^*a^*b$ )
- Individual Typology Angle (ITA) \*
- Eyelid Creepiness (Roughness-Average R, G, B)
- Puffiness, i.e. 3D Curvature Profile \*

# LIP HEALTH



- Surface Area & Redness Levels
- Border Contrast, Smoothness & Curvature
- Lip Wrinkle Counts Classified by Severity
- 3D Lip Volume

# FACIAL CONTOURS



- Facial Surface area and volume mapping by region of interest
- Sagging Jowls, Hollow Areas, Deep Folds/Creases
- Drooping of the Brow & Upper Eye Lid