MULTI-SPECTRAL MIRROR

GOAL

Build a virtual mirror that see what the naked eye cannot.

HOW?

Imagine a smart mirror (screen) that uses jointly color and multispectral cameras to analyze skin health with a near real-time preview, visualizing the invisible using advanced computational imaging and computer vision.

RESEARCH TOPICS ASSOCIATED

COMPUTER GRAPHICS

- 2D/3D Data visualization
- Graphics user interface

COMPUTATION IMAGING

- Multispectral filter array (MSFA) demosaicing
- Multi-spectral analysis
- Multimodal data fusion

COMPUTER VISION

- Multimodal image registration
- Normal and depth map estimation

AVAILABLE EQUIPMENT'S

- SLIOS TOUCAN 10 bands multispectral camera
- Multiple color camera
- Multiple stereo cameras
- Multiple color chart
- Spectrocolorimeters
- Spectroradiometers
- Touch screens

Is there any lighting that would give better results with your spectral mirror?