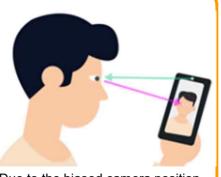
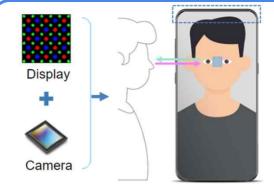
All-in-One Display and Camera Technology



Due to camera holes Immersive distraction



Due to the biased camera position gaze mismatch



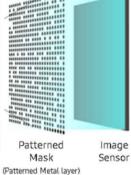
Bezelless design without camera holes, and fused lensless camera in the center of the display

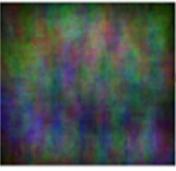
It is a Camera Integrated Display Technology. Fundamentally, this solution supports bezel less display design. In the teleconference, this solution supports an experience that the remote user's eyes and the viewer's eyes match. When user take a selfie, it provides a mirror effect.

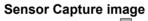
OLED Display Market value is expected \$121 billion. After 1 year, my team will sale patent license to SAMSUNG Electronics and SAMSUNG Display. In near future, my team will make product and device sale to the \$121 billion values market.

(Contact: ryuseun@gmail.com, Video: https://youtu.be/-coCBRwK7zA)











Pre-Alpha Quality
Image Processing



Beta Quality

➤ After 1 year, Beta Version
license Sales to SAMSUNG Display

Version (period)	Target Goal or Product	Development staff / Required Manpower and Budget	Sales target company / Product
Pre-Alpha (13 Months) (2018.7~2019.7)	Display Integrated Lensless Camera Possibility Verification - Lensless Camera Methodology and Knowhow acquisition - Optimized Lensless Mask Design Complete	UX: camera position and camera interaction SW: Camera Image Processing HW 1, 2: Camera and Display Circuit Control	SAMSUNG Electronics And SAMSUNG Display
Alpha (6 Months)	OLED Display Mask Based Lensless Camera - C model and FPGA Design/Verification/Tuning - Goal: Image Quality PSNR 15(dB), SSIM 0.7	UX 1: AF, FOV Interaction Design SW 1,2,3: Focuse and FOV control, C Modeling, Camera Quality Tuning, C Modeling HW 1,2,3: FPGA Design, Verification Budget \$1 million	SAMSUNG Electronics and SAMSUNG Display required more high quality result (beta version) and noticed an intention to actively purchase of beta version level. Expected Royalty Price: \$10 million
Beta (6 Months)	- Goal: Image Quality PSNR 24(dB), SSIM 0.9 - Technology license Sales to SAMSUNG Display		
Future	Self-production 'Camera Integrated OLED Display' by using Inkjet Printing Method		SAMSUNG Electronics, APPLE, SONY, etc 2023 Expected Market Value: \$121 billion