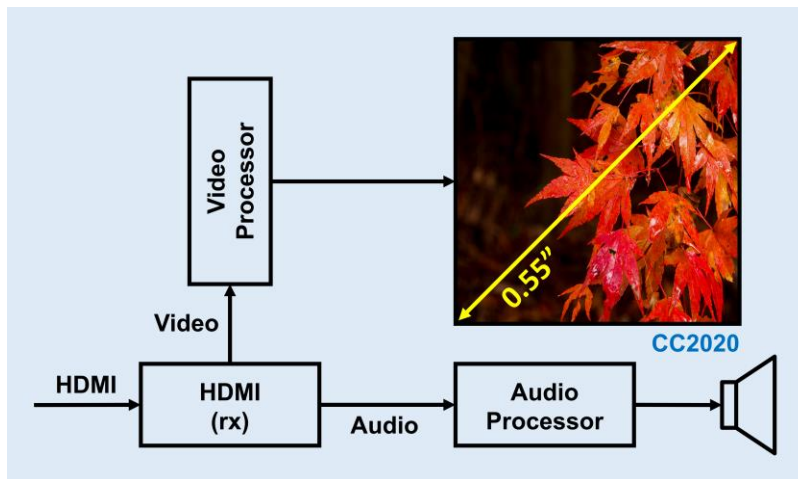


CC2020 is a 2560x2560 pixel array based imager for micro display applications, which consists of Liquid Crystal on Silicon(LCoS) Spatial light modulator(SLM) micro display.

CC2020 is designed to be used in wide range of applications including virtual reality(VR), augmented reality(AR) and other projection displays. Its sharp 2K<sup>2</sup> Ultra High Definition(UHD) resolution allows users to experience media in great details and vibrant colors with 120 frames per second(fps).

Its highly efficient design utilizes loading of 32 pixels simultaneously to minimize power consumption without sacrificing the refresh rate to provide smooth and realistic motion pictures.



## Features

- UHD 2560x2560 resolution
- 120 frame per sec refresh rate
- Efficient IO placing for system integration
- Vivid colors with true black
- AR VR applications
- 32 parallel pixels loading
- Compact input data interface
- Horizontal and vertical image flipping
- Cost efficient system design
- Low power consumption

Parameter	Specification	Units
	CC2020	
Pixel Matrix	2560 x 2560	Pixels
Active Matrix	2560 x 2560	Pixels
Active Matrix Area	9.86 x 9.86	mm
Display Size	0.55	in
Pixel Mirror / Pixel Pitch	3.60 / 3.85	um
Aperture Ratio	87.43	%
Dot Clock	110.0	MHz
Video Drive Method	Invert video every frame, 32 pixels per dot clock	