

PROJECT COORDINATOR

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LIVERAY

LIVE LIGHT FIELD
RECORDING
AND DISPLAY

🔗 holografika.com/LiveRay

SZÉCHENYI 2020


HUNGARIAN
GOVERNMENT

NATIONAL RESEARCH,
DEVELOPMENT AND
INNOVATION FUND
INVESTING IN YOUR FUTURE

The project creates the first integrated light-field camera & light-field display system that enables direct capturing of 3D light fields with a purpose-built camera, and visualize it in real time on a glasses-free light-field 3D display.

Light-field is an emerging concept for representing rich 3D visual information that is able to capture real world phenomena with unprecedented image quality.

A light field describes visual information as a set of light rays that passes a (sensor / display) surface, but apart from capturing the position and color of each light ray, the direction of each light ray is also recorded.

While light-field displays can reproduce hologram-like, full color, real time representations of anything that can be captured in light-field format, light-field camera systems can capture rich 3D information, which can be used to reconstruct the geometry of the recorded scene in real time.

This project is the first to combine the two 3D Light Field technologies to generate completely new and exciting business opportunities.

RAYTRIX RECORDING



HOLOVIZIO DISPLAYING

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