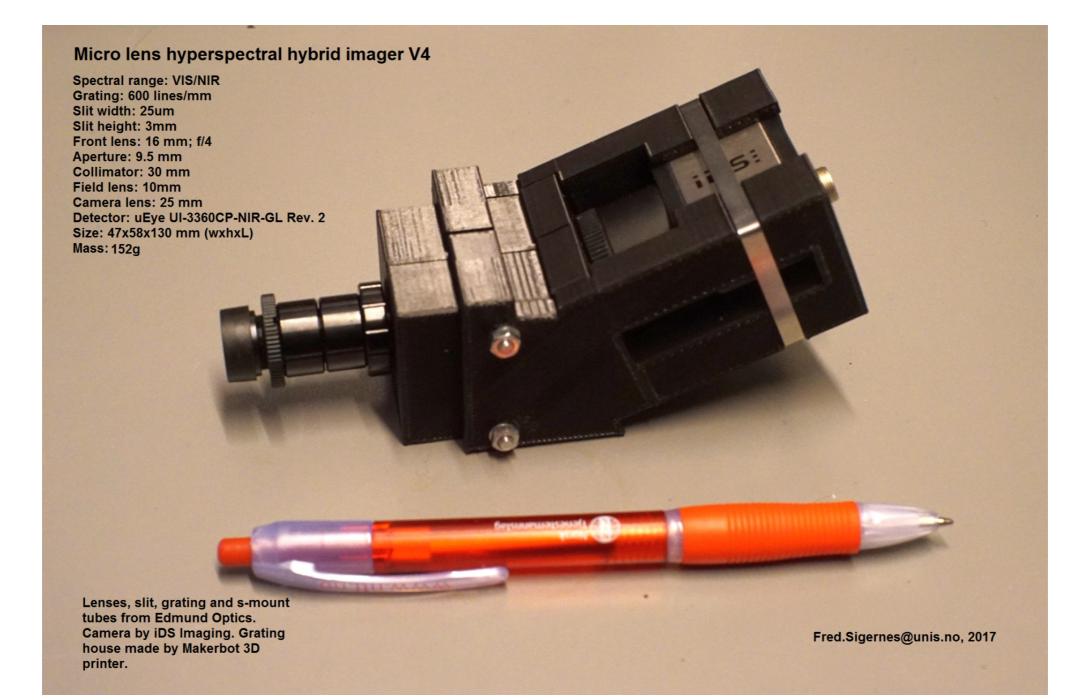
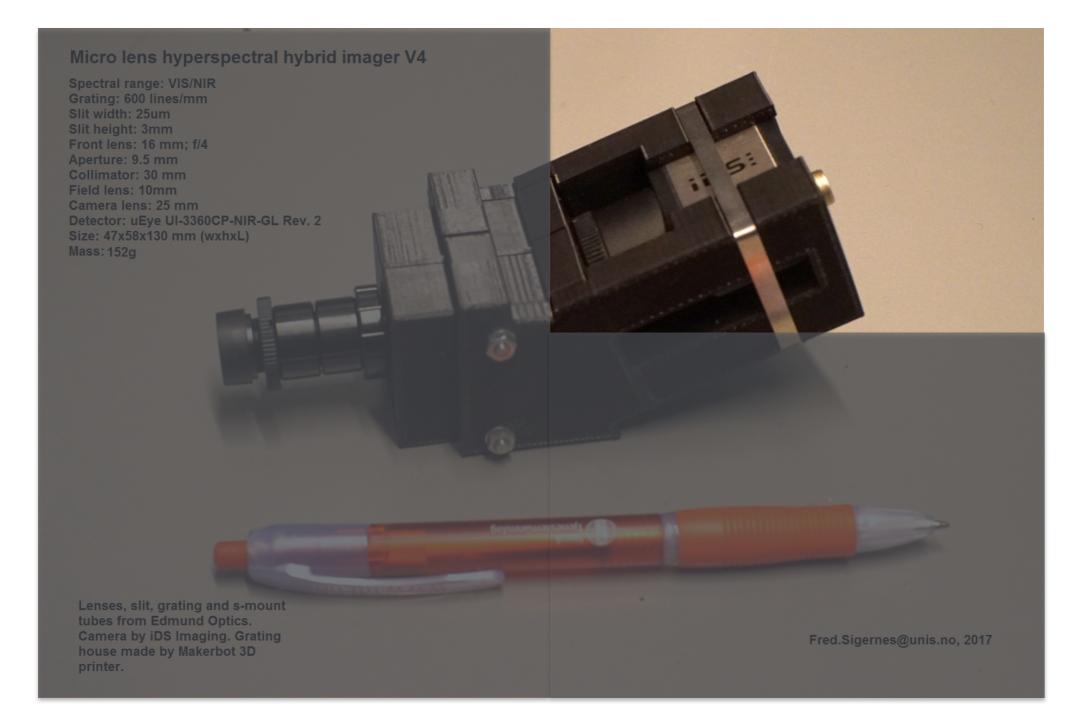
## HSI Hardware

### Current Imager



## Current Imager



## Specification

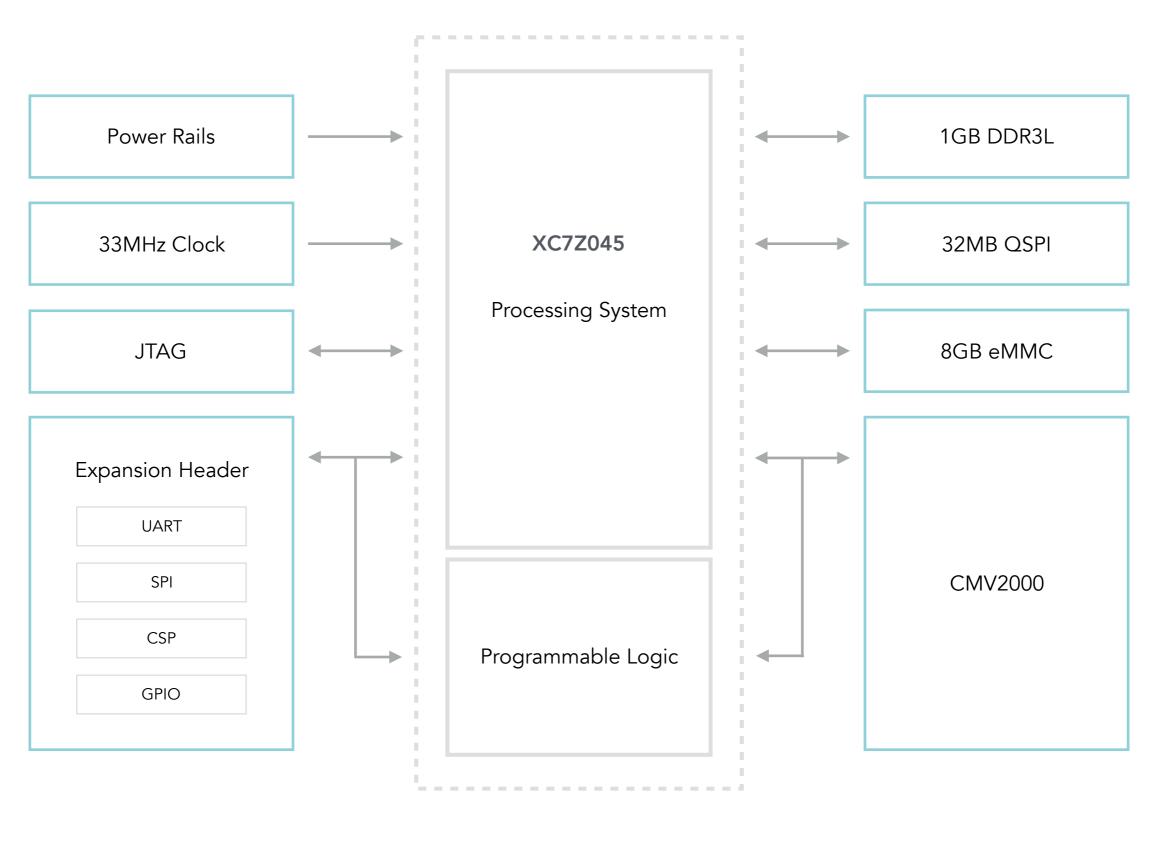
- Sensor width larger than ~7.5 mm
- Frame rate ~ 100SPS
- Dark target high pixel bit depth
- Power consumption < 5W</li>

# Design Principles

1) Build as little as possible from scratch.

2) Use AEC-Q100 certified parts from the automotive industry.

3) Design for multiple vehicles



NTNU Hyperspectral Camera Payload Rev 1.0

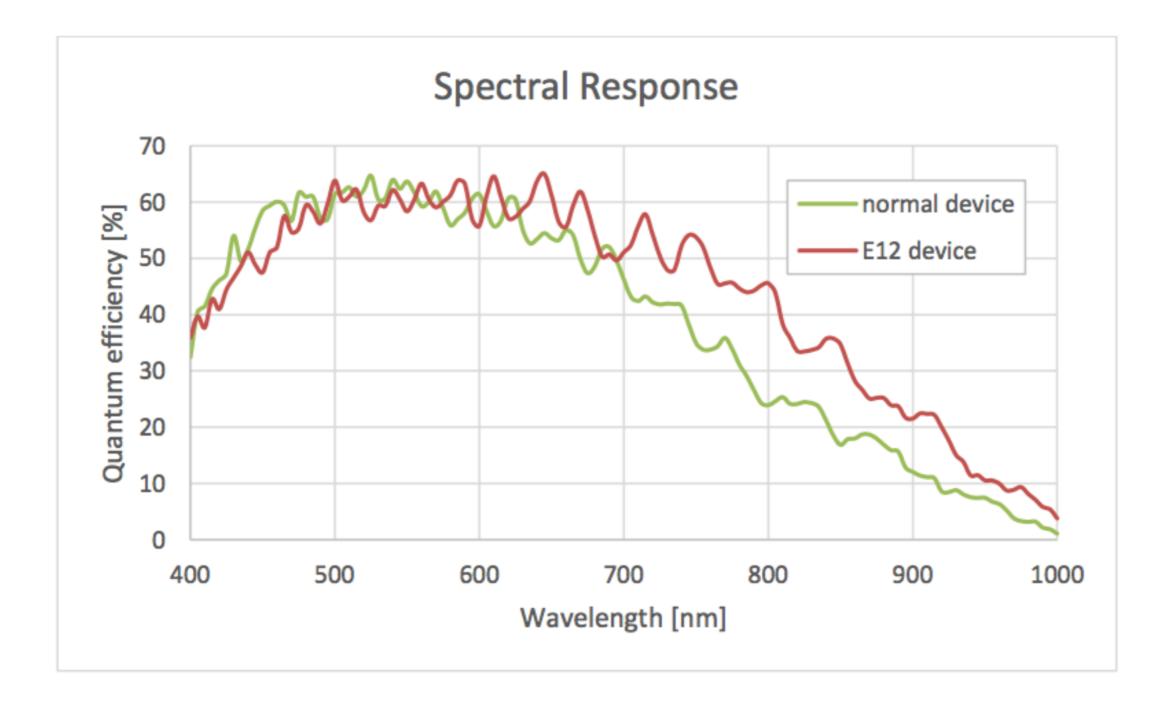
#### Custom Design

- Significantly cheaper per unit
- Takes up less space
- Flexible power supply solution
- Better connectivity options

#### NanoMind Z7000

- Shorter development time
- Less complexity
- Cheaper PCB production technology
- Flight proven





### SNR

- Exposure Time
- Pixel Size
- Bits per pixel
- Distance from earth
- Optics
- Environmental noise