

Mechatronics Innovation Lab
Jon Lilletuns vei 9J
4879 Grimstad
Norway



**Mechatronics
Innovation Lab**

www.mil-as.no // post@mil-as.no

Technology portfolio

Digital technologies | June 2018



Mechatronics
Innovation Lab

Virtual Reality

HTC | VIVE

Display: 1080x1200 pixels pr. eye (2160x1200 pixels combined)
110 degrees field of view

Tracking area: 4.5x4.5 m

Features: 360-degree controller and headset tracking
Directional audio
HD haptic feedback in controllers





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Virtual Reality

Oculus / Rift

Display: 1080x1200 pixels pr. eye (2160x1200 pixels combined)
110 degrees field of view

Tracking area: 2.5x2.5 m

Features: 360-degree controller and headset tracking
360-degree sound
HD haptic feedback in controllers





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Augmented Reality

Microsoft | HoloLens

Display:	1268x720 pixels pr. eye (2160x1200 pixels combined)
Sensors:	2.4 megapixel photographic video camera IMU (Accelerometer, gyroscope, and magnetometer) 4 environment sensors Depth camera with a 120x120 degrees field of view Four-microphone array 1 ambient light sensor
Audio:	3D audio speakers
Connection:	Wi-Fi Bluetooth
Storage:	64 GB (flash memory)
Weight:	579 g



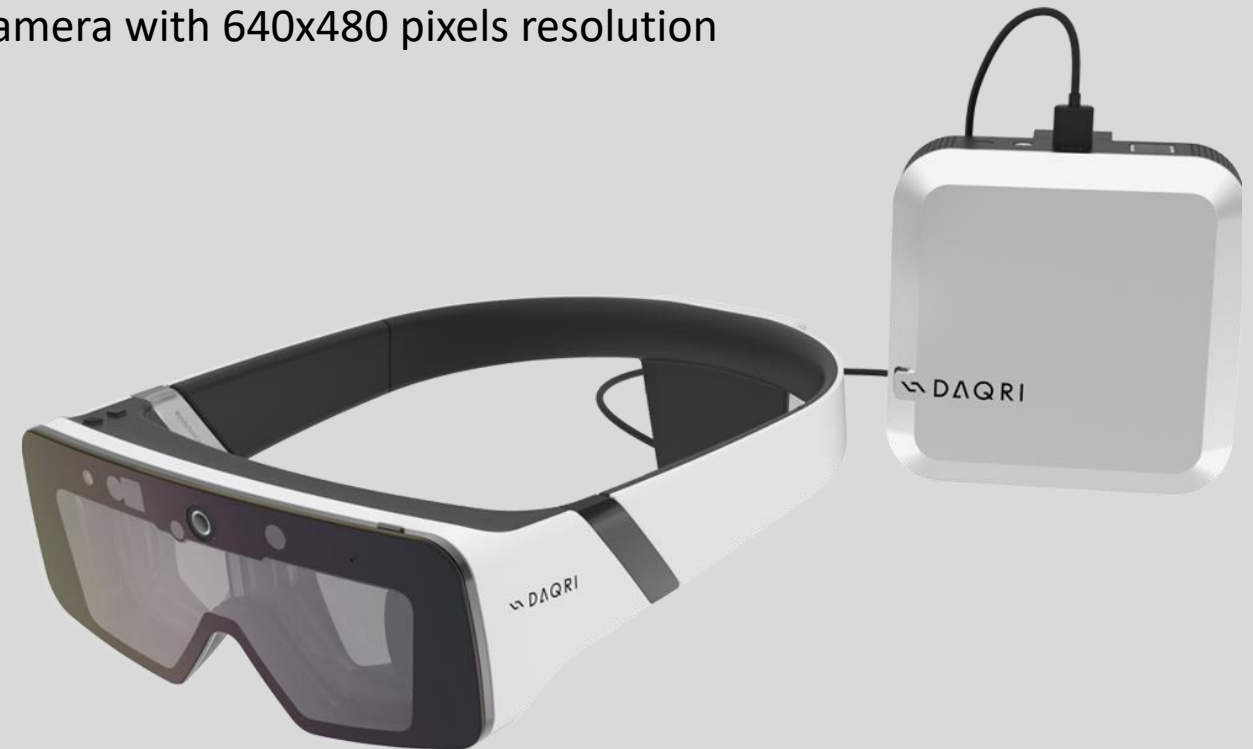


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Augmented Reality

DAQRI / Smart Glasses

Display:	1360x768 pixels pr. eye
Sensors:	RGB 1080 pixel HD camera Depth camera with 0.4...4 m range and 480x360 pixels resolution 166° diagonal fisheye camera with 640x480 pixels resolution
Audio:	3D audio speakers
Connection:	Wi-Fi Bluetooth
Storage:	64 GB (SSD)
Weight:	312 g (glasses) 425 g (computer pack)





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Augmented Reality

Google / Glass

Display:	640x360 pixels
Sensors:	5 megapixel camera (720p video recording) 3 axis gyroscope 3 axis accelerometer 3 axis magnetometer Ambient light sensing and proximity sensor
Audio:	Bone conduction audio transducer
Connection:	Wi-Fi Bluetooth
Storage:	32 GB
Weight:	60 g





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Deep Learning

NVIDIA | DGX-1 x2 (Thor and Mime)

Performance:	170 teraFLOPS
GPUs:	8x Tesla P100
GPU memory:	128 GB
CPU:	Dual 20-Core Intel Xeon E5-2698 v4 2.2 GHz
NVIDIA CUDA Cores:	28672
System Memory:	512 GB 2,133 MHz DDR4 LRDIMM
Storage (internal):	4x 1.92 TB SSD RAID 0
Software:	Ubuntu Linux Host OS
External storage:	2x 40 TB SSD in RAID

“The world’s first deep learning supercomputer in a box”

