Pen-based Drawing in Augmented Reality on Mobile Phones

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ARKit

- Uses multiple sensor in connection with the camera (Visual Inertial Odometry)
- World Tracking
- Scene Understanding and Lighting Estimation
World Tracking

Device rotation

Device position

© Apple
First Version

Something to hold in your hands

Space for 5 detectable areas
The ARPen

- RedBear Nano v2 bluetooth chip
- 150 mAh battery
- 3 Arduino buttons
- 6 detectable sides