

ENABLE YOUR WORKFORCE WITH ENTERPRISE-GRADE AUGMENTED REALITY SOLUTIONS



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The ThinkReality A6 is an Augmented Reality head-mounted display featuring innovative functionalities that will change the way organizations work. This mobile device is designed to help the workforce use AR applications to receive expert assistance, reduce repair times, eliminate errors, streamline complex workflows, improve training quality, and save costs.

The ThinkReality A6 is optimized to work with Lenovo's ThinkReality Platform, a scalable software solution that allows enterprises to build, deploy, and manage Augmented Reality and Virtual Reality applications and hardware devices. ThinkReality Platform is hardware agnostic, cloud agnostic, and environment agnostic, meaning it can help you manage your AR solutions that are deployed on the A6 and other devices.



ThinkReality® A6

ThinkReality[®] A6



ThinkReality Platform

The ThinkReality platform offers a variety of microservices that are at the core of the software offering for Augmented Reality solutions. These services allow for efficient customization of each application, so it's optimized for maximum productivity.



Superior Visual Quality

With Lumus Waveguide optics boasting 1080p resolution per eye and a 40° Field of View, the ThinkReality A6 provides enhanced image quality and a greater visual field for an engaging viewing experience.



High Performance

The A6 is powered by the Qualcomm[®] Snapdragon[™] 845 SoC (System-on-Chip) Processor. Along with the Intel[®] Movidius[™] VPU, the A6 head-mounted display delivers superior performance that is highly power-efficient, allowing users to do a lot more with this wearable device.



Smart and Efficient

Built on the Android Oreo[™] platform, the ThinkReality A6 delivers seamless functionality and accessibility for an improved user experience.



Easy to Use

Interacting with the ThinkReality A6 can be done via voice, gesture, and gaze control, or with a 3DoF (Degrees of Freedom) hand controller, offering users an intuitive experience through various input methods that suit the situation.



Intelligent and Purposeful

The ThinkReality A6 comes equipped with a depth sensor, VPU, 13MP RGB camera, two fish-eye cameras, and an IMU (Inertial Measurement Unit) to enable 3D visualization, spatial mapping, digital information overlay, and object recognition.



Enhanced Mobility

Weighing less than 380g, the lightweight and comfortable A6 improves efficiency and on-the-go productivity. The removable 6800mAh battery offers up to 4 hours of power, enough to execute critical business operations without running out of battery.

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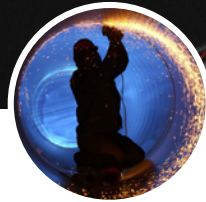
INDUSTRY BENEFITS



Industrial

The ThinkReality A6 can help optimize industrial operations and increase manufacturing throughput by simplifying complex work processes. The device can improve efficiency and safety while minimizing costs and errors. Manufacturing companies can accelerate employee training via real-time interactive 3D digital content.

Using the ThinkReality AR platform, companies can access expert guidance remotely, receive step by step instructions for assembly processes, on-the-job machine set up, and maintenance work. By integrating IoT data with the AR headset users can quickly react to problems and address issues more efficiently.



AEC

The Architecture, Engineering, and Construction (AEC) industry can rely on the ThinkReality A6 to explore practical applications of Augmented Reality on real-world projects. With this portable, lightweight head-mounted display, architects and engineers can view their three-dimensional designs at scale overlaid on top of real-world work sites. They can demonstrate how different design elements might look in the final product using digital modeling.

The ThinkReality A6 enhances the user experience and facilitates effective collaboration, improved data visualization, accessibility to expert instructions, accelerated decision making, better budget management, and increased safety.

ThinkReality Platform Features and Benefits

- Build, deploy, and manage custom AR and VR applications
- Device, Cloud, and market agnostic
- On-Device Edge Platform with device SDK
- AR Microservices
- User, Device, and Application Management
- Enterprise Systems Integration
- Management Portals
- Workflow Builders



Industrial Versatility

With the functionality of the A6, users can extend the deployment of AR solutions to almost any other work environment where hands-free digital assistance can enhance productivity and efficiency. For instance, A6 can prove to be helpful in healthcare, retail, logistics, or design environments where simple digital instructions and compliance are needed, or in environments where complex spatial computing and artificial intelligence are needed.

ThinkReality A6

TECHNICAL SPECIFICATIONS

SOC

Qualcomm® Snapdragon™ 845 Processor

Vision Processing Unit

Intel® Movidius™

Core Box OS

Android Oreo™

Optics Type

Binocular

Optics Tech

Lumus Waveguide

Form Factor

Visor/Top down optics

Resolution, Ratio

1080p (per eye), 16:9

FOV (diagonal)

>40°

Weight

<380g

SLAM Technology

Full SLAM

RGB Camera

Yes, rolling shutter

Depth Sensor

Yes

Gesture Support

Yes

Voice Recognition

Yes

Object Recognition

Yes

Connector

USB Type-C

Integrated LED Light

Yes

Ambient Light Sensor

Yes

Microphones (noise canceling)

Yes (2)

Speakers/Audio (stereo)

Yes, surround sound (Audio codec)

3DoF Inside-out Tracking

Yes

Barcode Reader

Yes, CV system needs to be able to read barcodes

WiFi

Yes

Wireless Network (4G, 5G)

No

Bluetooth

Yes

Head/Gaze Tracking (UX/UI)

Yes

Support Users Wearing Eyeglasses

Yes

NFC or RFID Reader for Smart Cards

In compute box

Battery Life (hours)

>4

IMU (in glasses, controller and compute box)

Yes (glasses, controller, and compute box)

ThinkReality A6 Accessories (in box)

USB Type-C Display Cable

Adjustable Arm Band

Changeable Nose Pads

Bluetooth 3DoF Controller w/Clip

USB Type-C Charger

Neck Lanyard

USB Type-C Data and Charging Cable

Belt Clip



Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2.

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