

ThinkReality A6

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 leverage a portfolio of turnkey AR/VR solutions that are certified for a variety of industries—or build, deploy, and manage their own. Our platform is device- and cloud-agnostic, which means solutions can be easily ported across enterprise infrastructures using the A6 and other AR/VR devices. All of this is backed by Lenovo's dedication to security and commitment to providing outstanding enterprise support.



Smarter
technology
for all

Lenovo

ThinkReality A6



THINKREALITY PLATFORM

The ThinkReality Platform provides development tools for easily building custom AR and VR applications as well as certified turnkey AR and VR solutions that span a variety of use cases and industries. The platform enables efficient and scalable deployment and management of these solutions for enterprises.



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 of view for an engaging user 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.



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 and digital information overlay. Object recognition is coming soon.



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.

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.

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



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, the 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 Headset

form factor

Visor/Top down optics

display optics

OPTICS TYPE

Binocular

OPTICS TECH

Lumus Waveguide

OPACITY OF OPTICS

High see through

FOV (DIAGONAL)

>40° FOV

DISPLAY BRIGHTNESS

600 nits Max

RESOLUTION

1080p resolution (per eye), 16:9 ratio

SUPPORT USERS WEARING EYEGLASSES

Yes

vision processing unit

Intel® Movidius™

sensors and input

DEVICE TRACKING

VIO (6DoF Inside Out), Dual Fisheye

RGB CAMERA

13MP AF, 30 FPS at 1080p

DEPTH SENSOR

Yes, Time-of-Flight (TOF), 62° x 45°

IMU

Yes (glasses, controller, and compute box)

AMBIENT LIGHT SENSOR

Yes

SPEAKERS/AUDIO

Yes, surround sound (Audio codec)

MICROPHONES

Two noise cancelling mics

software features

VOICE RECOGNITION

Yes (commands)

GESTURE SUPPORT

Yes

OBJECT RECOGNITION

Yes (coming soon)

IMAGE RECOGNITION

Yes

HEAD/GAZE TRACKING (UX/UI)

Yes

BARCODE READER

Yes (via camera)

weight

<380g

accessories (in box)

USB Type-C Display Cable
Adjustable Arm Band
Changeable Nose Pieces
Bluetooth 3DoF Controller w/Clip
USB Type-C Charger
USB Type-C Data and Charging Cable
Optional Desktop BatteryCharger (not included)
Neck Lanyard
Belt Clip
Cleaning Tool
Microfiber Cloth
User Guide

IP rating

IP51



A6 Compute Box

technical specifications

SOC

Qualcomm® Snapdragon™ 845 Processor

OS

Android 8.1

MEMORY

4GB

STORAGE

64GB SD Storage + microSD (up to 256GB)

I/O

USB 3.1 (Type-C) headset
USB 3.0 (Type-C) charging/data

BATTERY

> 4 hours (26Wh) - Removable/Replaceable

WIFI

Yes, 802.11ac 2x2 (2.4/5 GHz)

BLUETOOTH

Yes, 5.0 BLE

WIRELESS NETWORK (4G, 5G)

No

NFC OR RFID READER FOR SMART CARDS

Yes

AUDIO

Yes, 3.5mm audio jack

WEIGHT

240g (with battery)



ThinkReality Platform features and benefits

- Build, deploy, and manage custom AR and VR applications, cloud services, and software
- Device, Cloud, and Market Agnostic
- ThinkReality SDK for Unity
- Scalable Cloud Services
- User, Device, and Application Management
- Enterprise Systems Integration
- Management Portals
- Workflow Builders
- Certified turnkey solutions for all industries
- Scalable and secure end-to-end
- Mobile Device Management (MDM)
- Cloud and on-prem options
- Support Lightweight Directory Access Protocol (LDAP)
- Support Azure Active Directory (AAD)

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