



Toshiba dynaEdge
smart glass solution
**What's your vision for
business efficiency?**

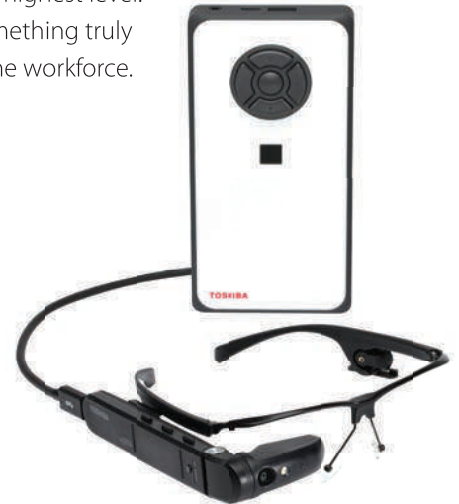
dynaEdge smart glass solution

The Toshiba dynaEdge DE-100 on its own provides Windows 10 based mobile computing at its highest level. However, when combined with the Toshiba dynaEdge AR100 Viewer smart glasses, it becomes something truly special; a hands-free Assisted Reality solution designed to improve the efficiency of the front-line workforce.

This combination of wearable tech enables many hands-free features for your staff, including:

- **See-What-I-See** – A direct link between on-location staff and remotely connected experts
- **Remote Knowledge** – Provides the latest product updates or training procedures
- **Document Retrieval** – See important documents directly in your field of view
- **Real-Time Data Capture** – Record your vision for training or record purposes
- **Workflow Instructions** – Provides real-time instructions delivered directly to your staff

The dynaEdge DE-100 with AR100 Viewer seamlessly integrates with existing IT infrastructure, creating a customisable solution to your business problems.



DESIGNED FOR ENTERPRISE

Combining Intel® Core™ processing power with Windows 10 Pro, up to 512GB internal storage and enterprise-level security, the dynaEdge smart glass solution is built from the ground up to integrate seamlessly into your organisation's existing infrastructure.



LIGHTWEIGHT AND PORTABLE

When coupled together, the compact, waist-mounted dynaEdge DE-100 unit and lightweight dynaEdge AR100 Viewer Head Mounted Display form a potent pairing without being cumbersome. Using one of the mounting options available for the Viewer, you can create a comfortable Assisted Reality solution that you'd be happy to wear all day long.



CUSTOMISABLE PLATFORM

A range of configurable software options, either direct from Toshiba or from third parties, are available now. Beyond 'out of the box' operations, dynaEdge provides a platform for users to construct a tailored solution for their specific business needs.



HANDS-FREE PRODUCTIVITY

The AR100 Viewer can be configured for use with either eye, while the on-board dual microphones, speaker, sensor array and camera ensure that users' hands are left completely free.



CONNECTIVITY

Equipped with the latest Wi-Fi™ and Bluetooth® technologies, the dynaEdge DE-100 plus AR100 can connect to a corporate network, send and receive data, stream live video and track assets.



PRACTICAL OPERATION

The dynaEdge DE-100 is an untethered solution. Engineered with a removable, rechargeable battery pack and an optional four-port battery charger, there is no need to worry about battery life during the working day.



DATA CAPTURE

With its high-resolution camera, the dynaEdge AR100 Viewer can record and live-stream video, take photos and even scan barcodes.



UNOBTRUSIVE DISPLAY

The dynaEdge AR100 has a 640 x 360 micro display which allows the wearer to view anything they need, from documents to video and more, without interfering with their field of vision.



FLEXIBLE NAVIGATION

The Toshiba AR solution offers a variety of methods to input and navigate including a touchpad and programmable buttons on the AR100 Viewer unit and directional buttons on the waist-mounted DE-100 mobile mini PC. Advanced software options enable voice and gesture capabilities.

Technical specifications



TOSHIBA dynaEdge DE-100

OPERATING SYSTEM

Windows 10 Pro
Windows 10 IoT Enterprise

PROCESSOR (Options)

Intel® Pentium® 4405Y
Intel® Core™ m5-6Y57
Intel® Core™ m7-6Y75

GRAPHICS

Intel® HD Graphics 515

MEMORY

Up to 16GB LPDDR3 (on board)

STORAGE (Options)

128GB M.2 SSD
256GB M.2 SSD
512GB M.2 SSD

COMMUNICATIONS

Intel® Dual-Band Wireless
- AC 8260
Bluetooth® 4.2

PORTS

USB 3.0 port
USB 3.1 Type-C™ port
Combo Mic/Headphone jack
DC power in

EXPANDABILITY

microSD™ card slot

SECURITY

Trusted Platform Module
- (dTPM) v2.0
Fingerprint reader (optional)
Slot for security lock

NAVIGATION CONTROLS

5 configurable control buttons

DIMENSIONS/WEIGHT

W x L x H: 165mm x 85mm x 20mm
310g

BATTERY LIFE

Up to 6.5 hours (depending on
configuration and usage)

TOSHIBA dynaEdge AR100 Viewer



OPTICS

0.26" (6.6mm) Diagonal
Display resolution: 640x360
Content resolution: 1280x720

CAMERA

5 megapixel
F2.8
Focus Range: 10cm to infinity
Auto Focus
Video capture:
- Up to 1080p @30fps
Flash LED

AUDIO

Built-in speaker
Dual microphones

USER CONTROLS

3 navigation buttons
Touchpad
On/off button

SENSORS

Proximity sensor
Ambient Light Sensor (ALS)
Gyroscope
Accelerometer
Compass
GPS

CONNECTORS

USB Type-C

DIMENSIONS/WEIGHT (Viewer only)

W x L x H: 61mm x 149mm x 21mm
48g

VERSATILE MOUNTING OPTIONS AVAILABLE

AR100 Lens-less Frame
AR100 Safety Frame
AR100 Safety Helmet Mounts
AR100 Headband Mount



Mounting options



AR100 Lens-less Frame



AR100 Safety Frame



AR100 Safety Helmet Mounts



AR100 Headband

Use case scenarios



The Remote Expert

- Not only can field workers talk to face-to-face with experts back in the office, they can also show them the challenges they're facing too, **instantly and in real time**
- The colleagues back in the office can respond with remote training, **support and data, all instantly heard and seen on the device**
- Workers' confidence is improved by always having back-up available
- **Enhanced training, performance assessment and quality control**
- **Improved communication and collaboration across the workforce**

Field Service, Maintenance, Utilities

- Create expert-recorded POV (Point of View) training videos with step-by-step narrative during task
- Deliver maintenance guides and other information at the point of repair
- Enables parts lookup in inventory
- More efficient use of your human resources: field service technicians are more efficient, and usage of your central 'experts' can be extended globally
- Reduced downtime



Logistics Operations

- Supplementary visual information to enhance the pick and pack process
- Indicates the optimum line of movement within warehouse/facility
- Can dynamically indicate alternative components to pick if out of stock
- Automatically scans item or shipment's barcode to manage inventory
- Increased accuracy of the pick and pack process leading to reduced return rates
- Increased efficiency of workers moving around the workplace **leading to faster execution**
- Flexibility to adapt workflow 'on the fly' as required

Manufacturing

- Quality control during the manufacturing process
- Enables newly hired workforce to perform complex tasks through 'on the job' training
- Customised work instructions, for example per batch
- Facilitates continual process analysis and improvement through visual data
- Improved manufacturing quality and efficiency
- Flexibility to adapt workflow 'on the fly' as required



Find out more about the dynaEdge at pc.toshiba-asia.com