

MINIMUM TECHNICAL REQUIREMENTS

HyBird Clarity Platform

Desktop/Laptop Requirements

GPU

- **Minimum:** 9th Gen Intel (e.g., Intel Iris 655) or Nvidia 900 series (e.g., GTX 900).
Note: A dedicated GPU is not required; integrated GPUs can suffice for rendering.

CPU

- **Minimum:** Intel i5, 9th Gen.
- **Recommended:** Intel i7 or higher, 9th Gen.

RAM

- **Minimum:** 8GB.
- **Recommended:** 16GB.

Browser Compatibility

Optimised for the following minimum versions of:

- Chrome (v130)
- Firefox (v132.0)
- Safari (v17.6)
- Microsoft Edge (v130)

No additional installation is required; the default installation of the latest browser version is sufficient.

Memory Usage

- A minimum of 1GB of memory is required to load 3D Reality Models (3DRM).
- Memory usage may increase with model complexity and zoom level due to Level of Detail (LOD) mechanisms.

Clarity Capture App Requirements

Supported Devices

- Exclusively runs on LiDAR-based devices.
- Minimum supported device: iPhone 15 Pro Max or newer iPads with LiDAR sensors.

Operating System

- iOS 18 or higher.
- **Android devices are not currently supported for Clarity Capture.**

Mobile/Tablet Requirements for Clarity Mobile App

iOS Devices

- **iOS Version:** 18 or higher.

Android Devices

- Must support ARCore.
- **Minimum Android Version:** Android 13.
- Supported tablets include Samsung Android tablets.
- See developers.google.com/ar/devices for full device compatibility.

Network Requirements

Internet Connectivity

- **Minimum Bandwidth:** 10 Mbps download, 5 Mbps upload.

- **Recommended Bandwidth:** 50 Mbps download, 10 Mbps upload for optimal performance with large 3D models.
- **Latency:** Maximum 100ms for responsive user experience.

Firewall and Security

- HTTPS must be accessible for secure communication.
- WebSocket connections must be permitted for real-time data synchronization.
- Corporate firewalls should whitelist *.hybird.ai, *.hybirdtech.com and *.clarity.hybird.ai domains.

Storage Requirements

Desktop/Laptop

- **Browser Cache:** Minimum 2GB of available disk space for browser cache and temporary 3D model files.

Mobile Devices

- **Clarity Mobile App:** Minimum 1GB of available storage for app installation and cached data.
- **Clarity Capture App:** Minimum 5GB of available storage for scan data capture and temporary file storage.

Note: Additional storage may be required depending on the size and number of scans captured.

Display Requirements

Desktop/Laptop

- **Minimum Resolution:** 1366 x 768 pixels.
- **Recommended Resolution:** 1920 x 1080 pixels (Full HD) or higher.

Mobile/Tablet

- Minimum screen size: 4.7 inches (iPhone X equivalent).
- Recommended: 10-inch tablet or larger for optimal viewing of 3D models and technical drawings.

Additional Requirements

Peripherals

- **Mouse/Trackpad:** Recommended for desktop use to enable efficient 3D navigation.
- **Touchscreen:** Optional but enhances user experience on compatible devices.

User Permissions

- **Camera Access:** Required for Clarity Capture App and AR features in Clarity Mobile App.
- **Location Services:** Required for geospatial features and asset location tracking.
- **Storage Access:** Required for downloading documents, exporting data, and saving scan files.

Performance Notes

- Performance may vary based on the complexity of 3D models, number of concurrent users, and network conditions.
- For large-scale industrial facilities with extensive 3D models, higher-specification hardware is recommended.
- Regular browser cache clearing may be necessary to maintain optimal performance.
- HyBird recommends testing the platform with representative data sets during pilot deployment to validate performance against specific use cases.