

Guideline for BIM Modelling Computer

Purpose

According to paragraph 130 in Policy Address in January 2017, the Government will actively seek to require consultants and contractors to use Building Information Modelling (BIM) when undertaking design of major government capital works from 2018 onwards. The purpose of this guideline is to provide a reference hardware specification for BIM modelling computer to facilitate Works Departments (WDs) to specify contract computer facilities under works contracts or to facilitate daily office use for the purpose of BIM application.

Reference specification

2. The BIM modelling computer shall comply with the following general specification.

Component	General Specification
(i) Processor	CPU with performance benchmark score ¹ ranged from 10,000 to 17,000 depending on modelling details and complexity of the projects
(ii) Memory	32GB to 64GB depending on modelling details and complexity of the projects Expandable to 64GB if 32GB RAM is used
(iii) Boot Drive	SSD bootable disk
(iv) Video Card	Suggest a video display card with video performance benchmark score ² ranged from 4,000 to 9,000 depending on modelling details and complexity of the projects At least 4 GB DDR5 GPU Memory At least two Display Ports
(v) Green Factor	Comply with Energy Star, or obtained an Energy Label under the Energy Efficiency Labelling Scheme of EMSD Product components should comply with RoHS
(vi) LCD Monitor	Support at least dual monitor Use of 4K monitor depending on operation need

¹ High End CPU score - https://www.cpubenchmark.net/high_end_cpus.html

² High End Video card score - https://www.videocardbenchmark.net/high_end_gpus.html

Remarks

3. The above guideline is considered optimal for most of the BIM modelling work. However, depending upon complexity and details of the specific projects or BIM models, departmental IT Committee may give necessary support to any deviation from above, if considered necessary.

Enquiry

4. For enquiry about this guideline, please contact AS(IT), DEVB(WB).