



3Shape PC Catalog

How to use this PC catalog

The importance of the PC

The PC is an important part of the overall 3Shape system. It is the engine on which the software is run, and consequently the software puts some requirements on the PC. Selecting the correct PC will ensure a good user experience and effective workflow for the user. This document outlines how to determine which PC to use for a given 3Shape system or combination of systems.

Selecting a PC

First, identify which PCs are capable of running the required combination of 3shape products in the section 'List of specific PCs'. Then, select one of these PCs.

If the system does not include TRIOS scanning, it is also possible to select a PC that complies with the specifications listed in the section 'Minimum PC requirements for 3Shape software packages (Ortho /Implant Studio /Practice lab /Dental System)'.

Changes in this version of the PC catalog

Changes include:

- PCs updated (new specs): Dell XPS15, HP Z240 config. 1, HP Z240 config. 3, Dell Alienware 15", Dell Alienware 17"

This document is subject to change without notice.




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List of specific PCs

Use the table below to select a PC that will work on a specific combination of 3Shape products.

For ordering information, locate the item number in the column 'May be delivered by 3Shape'.

	3Shape software					May be delivered by	
	TRIOS® 	TRIOS® Practice lab 	Ortho System 	Implant Studio 	Dental System 	3shape  (Note 6)	3Shape reseller (Note 3)
 <p>Dell XPS 15 ProSupport: 3 Years Onsite service</p> <p>Display: 15.6 inch UHD (3840 x 2160) Processor: Intel® Core™ i7-7700HQ Memory: 32 GB (or more) DDR4, 2400 MHz (or more) Disk: 1TB SSD (or more) Graphics card: NVIDIA® GeForce® GTX 1050 (4 GB) Keyboard: Regional, depending on availability Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Dim.: 357mm (14") x 235mm (9.3") x 17mm (0.7") Weight: 2.0 Kg (4.5 lbs.)</p>	✓	✓	✓ Note 4)	✓	✓ Note 4,5)	✓ Item No: 80602-742	✓
 <p>Dell Alienware 15 ProSupport 3 Years Onsite service</p> <p>Display: 15,6" FHD (1920 x 1080) (or more) Processor: Intel® Core™ i7-6700HQ or i7-6820HK or i7-7700HQ Memory: 16GB (or more) DDR4, 2400 MHz (or more) Disk: 1TB SSD boot disk (or more) (additional spinning disk optional) Graphics card: NVIDIA® GeForce® GTX 1060M (6GB) or GTX 1070 (8GB) or GTX 1080 Keyboard: Regional, depending on availability Operating system: Windows 8.1 Pro or Windows 10 Pro (1) Dim.: 389mm (15.3") x 405mm (12.0") x 25mm (1.0") Weight: 3.5 Kg (7.7 lbs.)</p>	✓	✓	✓ Note 4)	✓	✓ Note 4,5)	✓ Item No: 80602-486	✓
 <p>Dell Alienware 17 ProSupport:3 Years Onsite service</p> <p>Display: 17.3" FHD (1920 x 1080) (or more) Processor: Intel® Core™ i7-6700HQ or i7-6820HK or i7-7700HQ Memory: 16GB (or more) DDR4, 2400 MHz (or more) Disk: 1TB SSD boot disk (or more) (additional spinning disk optional) Graphics card: NVIDIA® GeForce® GTX 1060M (6GB) or GTX 1070 (8GB) or GTX 1080 Keyboard: Regional, depending on availability Operating system: Windows 8.1 Pro or Windows 10 Pro (1) Dim.: 332mm (13.1") x 424mm (16.7") x 30mm (1.2") Weight: 4.4 Kg (9.7 lbs.)</p>	✓	✓	✓ Note 4)	✓	✓ Note 4,5)	✓ Item No: 80602-493	✓

	3Shape software					May be delivered by	
	TRIOS® 	TRIOS® Practice lab 	Ortho System 	Implant Studio 	Dental System 	3shape  (Note 6)	3Shape reseller (Note 3)
 Lenovo P50 3 Years Onsite service Display: 15.6 inch (1920x1080) (or more) Processor: Intel Core i7-6820HQ Memory: 16GB (or more) DDR4 2133MHz Disk: 512GB SSD (or more) Graphics card: NVIDIA® Quadro M2000M with 4 GB GDDR5 Keyboard: Regional, depending on availability Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Dimensions: 377 mm (14.9") x 252mm (9.9") x 25mm (1.0") Weight: 2.55 Kg (5.6 lbs.)	✓	✓	✗	✓	✗	✓ Item No: 80602-472	✓
 HP Zbook 17 G3 Workstation 3 Years Onsite service Display: 17.3" FHD (1920x1080) (or more) Processor: Intel Core i7-6820HQ Memory: 16GB (or more) DDR4, 2133MHz Disk: 512GB SSD (or more) Graphics card: NVIDIA® Quadro® M4000M (4GB) Keyboard: Regional, depending on availability Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Dim.: 420mm (16.5") x 280mm (11.0") x 30mm (1.1") Weight: 3.5 Kg (7.7 lbs.)	✓	✓	✗	✓	✗	Not available	✓
 Apple 15" MacBook Pro Apple warranty Display: 15.4" Retina (2880 x 1800) Processor: Intel Core i7 2.7GHz (or more), Turbo Boost up to 3.6GHz Memory: 16 GB (or more) DDR3L, 2133 MHz (or more) Disk: 1TB SSD (or more) Graphics card: AMD Radeon Pro 460 (4 GB) Keyboard: Regional, depending on availability Operating system: Windows 7 Ultimate/Windows 8 Pro/Windows 10 Pro (1), 64 bit via bootcamp (2) Dim.: 349mm (13.8") x 241mm (9.5") x 16mm (0.6") Weight: 1.8 Kg (4.0 lbs.)	✓	✓	✗	✓	✗	Not available	✓

	3Shape software					May be delivered by	
	TRIOS® 	TRIOS® Practice lab 	Ortho System 	Implant Studio 	Dental System 	3shape  (Note 6)	3Shape reseller (Note 3)
 <p>Dell Alienware Area-51 Regular warranty</p> <p>Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-5820K (3.3 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: 512 GB SSD (or more) + 4 TB HDD 7200 rpm (optional) Graphics card: NVIDIA GeForce GTX 980 (4GB) or GTX1080 (8GB) Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 273mm (10.7") x 639mm (25.2") x 569mm (22.4")</p>	✓	✓	✓ Note 4)	✓	✓ Note 4,5)	✓ Item No: 20000-103	✓
 <p>HP Z240, Config. 1 3 Years Onsite service</p> <p>Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-6700 (3.4 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: <u>1TB SSD</u> disk (or more) Graphics Card: <u>NVIDIA GeForce GTX 1060 (6GB)</u> Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 170mm (6.7") x 442mm (17.4") x 399mm (15.7")</p>	✓	✓	✓ Note 4)	✓	✓ Note 4)	✓ Item No: 20000-105	✓
 <p>HP Z240, Config. 2 3 Years Onsite service</p> <p>Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-6700 (3.4 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: <u>512GB SSD</u> disk (or more) Graphics Card: <u>NVIDIA Quadro M4000</u> (8GB) Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 170mm (6.7") x 442mm (17.4") x 399mm (15.7")</p>	✓	✓	✗	✓	✗	Not available	✓

	3Shape software					May be delivered by	
	TRIOS® 	TRIOS® Practice lab 	Ortho System 	Implant Studio 	Dental System 	3shape  (Note 6)	3Shape reseller (Note 3)
 HP Z240, Config. 3 3 Years Onsite service Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-6700 (3.4 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: <u>1TB 7200RPM</u> disk (or more) Graphics Card: <u>NVIDIA GeForce GTX 1050ti</u> (4GB) Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 170mm (6.7") x 442mm (17.4") x 399mm (15.7")	✗	✗	✓ Note 4)	✓	✓ Note 4)	✓ Item No: 20000-100	✓
 HP Z240, Config. 4 3 Years Onsite service Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-6700 (3.4 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: <u>512GB SSD</u> disk (or more) Graphics Card: <u>NVIDIA GeForce GTX 1070</u> (8GB) Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 170mm (6.7") x 442mm (17.4") x 399mm (15.7")	✓	✓	✓ Note 4)	✓	✓ Note 4)	Not available	✓
 HP 800 G2 3 Years Onsite service Display: 1920 x 1080 resolution minimum (monitor not incl.) Processor: Intel Core i7-6700 (3.4 GHz) Memory: 16 GB (or more) DDR4, 2133MHz Disk: 1TB 7200RPM disk (or more) Graphics card: NVIDIA GeForce GT 740 (2 GB GDDR5, 384 shader cores) Extra USB card: 4x USB 3.0 Operating system: Windows 8.1 Pro or Windows 10 Pro ⁽¹⁾ Keyboard: Regional, depending on availability Dim.: 100mm (3.95") x 378mm (14.9") x 338mm (13.3")	✗	✗	✓ Note 4)	✓	✓ Note 4)	✓ Item No: 20000-101	✓

Note 1)

TRIOS® will in general work fine also on Windows Home edition. However, there are some benefits of using the Pro version, compared to the Home version, including: Pro version will enable the PC to be part of a corporate domain, whereas the Home version will not. For Win10, only the PRO version will allow full control of Windows updates. For full information please refer to the 'PC setup guide for TRIOS®' document.

Note 2)

Apple computers requires more setup, as windows need to be installed (requires Bootcamp, see instructions on Apple's website). All specifications are subject to change without notice.

Note 3)

Depending on local availability. Not all models may be available from the PC manufacturer in all regions. Not all models may be available from each reseller.

Note 4)

Software (Ortho Analyzer or Dental System) will *not* be installed from factory. Reseller must install the software.

Note 5)

PC is approved for Dental System design station only. For Dental System scanning, use the HP Z240 or the HP800 G2.

Note 6)

Only resellers may order PCs directly from 3Shape. End-user must order from resellers.

All systems including a TRIOS® must be delivered to end users with a configured PC

3Shape provides fully functional computer with TRIOS® software installed. Alternatively, Reseller purchases, configures and delivers fully functional computer with TRIOS® software installed. **Please note!** Distributor may be required to exchange some parts (e.g. RAM, disk, etc.), depending on the available configurations by the computer supplier. All specifications are subject to change without notice.





PC setup guide

The user experience (especially when using TRIOS®) depends to a very large degree on the proper configuration of the PC used. To ensure proper setup of the PCs, 3Shape provides a document intended for distributors of TRIOS®. It describes all steps required to set up a new PC to enable fast and accurate scans with the TRIOS® POD systems (cart systems are delivered fully configured). The document may be found on the 3Shape support site. The document is subject to change.

Minimum PC requirements for 3Shape software packages (Ortho /Implant Studio /Practice lab /Dental System)

Scope

The list below is valid for setups that will not drive a TRIOS® scanner. Setups that do include TRIOS® scanning must employ one of the PCs from the 'List of specific PCs'. Note that the list below will also cover TRIOS® practice lab, when the scanning itself is performed at a different PC.

		Ortho System 	Implant Studio 	Practice lab (Scan on separate PC) 	Dental System ⁽³⁾ 
Legend	✓	: Sufficient			
	✓+	: Recommended for improved performance (optional)			
Processor	Intel Core i5	✓	✗	✗	✓
	Intel Core i7 or equivalent	✓+	✓	✓	✓+
Memory (RAM)	4GB	✗	✗	✗	✓
	8GB	✓	✗	✗	✓+ ⁽¹⁾
	16GB	✓+	✓	✓	✓+ ⁽¹⁾
Disk	250GB (conventional or SSD)	✓	✗	✗	✓
	500GB (conventional or SSD)	✓+	✓	✓	✓+ ⁽²⁾
	1TB (conventional or SSD)	✓+ ⁽²⁾	✓+	✓+	✓+ ⁽²⁾
Graphics card	512MB NVIDIA GeForce, DirectX 10 /11	✗	✗	✗	✓
	1GB NVIDIA GeForce, DirectX 10/11	✗	✗	✓	✓+
	2GB NVIDIA GeForce, DirectX 10/11	✓	✓	✓+	✓+
Operating system	Windows 8 Home (64bit)	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾
	Windows 8.1 Home (64bit)	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾
	Windows 10 Home (64bit)	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾
	Windows 7 PRO (32bit)	✗	✗	✗	✓
	Windows 7 PRO (64bit)	✓+	✓+	✓+	✓+
	Windows 8 PRO (64bit)	✓+	✓+	✓+	✓+
	Windows 8.1 PRO (64bit)	✓+	✓+	✓+	✓+
	Windows 10 PRO (64bit)	✓+	✓+	✓+	✓+
Monitor resolution	1280x1024	✓	✗	✗	✗
	1920x1080	✓+	✓	✓	✓
	1920x1200	✓	✓+	✓	✓
Network	Wi-Fi or wired, internet connection	✓	✓	✓	✓
Mouse	With wheel button	✓ ⁽⁵⁾	✓ ⁽⁵⁾	✓	✓ ⁽⁵⁾






Notes

- 1) 8GB recommended. For simultaneous scanning and modeling of large cases, 16GB RAM is recommended
- 2) 1TB recommended if used as a stand-alone system or a server with the order folder
- 3) Specs listed applies to Dental System design station only. For Dental System scanning use the HP 800 G2 (for D500, D700, D710, D750, D800 and D810) or the HP2240 (for D850, D900, D900L, D1000 and D2000). However, for most scanners a PC that fulfills the requirements for Dental System will also be usable for scanning. For D250 scanners the PC must have a serial port, please contact your reseller for details on new PCs for D250 scanners.
- 4) Pro version will enable the PC to be part of a corporate domain, whereas the Home version will not
- 5) 3DConnexion Space Mouse Pro recommended for improved performance

Network speed requirements

The speed of the Ethernet is important as it will impact the user experience. The faster network, the smoother user experience.

Speeds stated below are the effective speeds obtainable on the network (a 100Mbit network may not yield 100Mbit/s in real life).

Legend		TRIOS®	Ortho System	Implant Studio	Practice lab (Scan on separate PC)	Dental System
✓ : Sufficient						
✓+ : Recommended for improved performance (optional)						
Upload to Internet (Case communication with external partners)	1 Mbit/s	✗	✗	✗	✗	✗
	2 Mbit/s	✓	✓	✓	✓	✓
	5 Mbit/s	✓+	✓+	✓+	✓+	✓+
	10 Mbit/s	✓+	✓+	✓+	✓+	✓+
	20 Mbit/s	✓+	✓+	✓+	✓+	✓+
Download from Internet (Case communication with external partners)	1 Mbit/s	✗	✗	✗	✗	✗
	2 Mbit/s	✓	✓	✓	✓	✓
	5 Mbit/s	✓+	✓+	✓+	✓+	✓+
	10 Mbit/s	✓+	✓+	✓+	✓+	✓+
	20 Mbit/s	✓+	✓+	✓+	✓+	✓+
Internal (Communication in-house)	20 Mbit/s	✗	✗	✗	✗	✗
	50 Mbit/s	✓	✓	✓	✓	✓
	100 Mbit/s	✓+	✓+	✓+	✓+	✓+
	200Mbit/s	✓+	✓+	✓+	✓+	✓+
	500 Mbit/s	✓+	✓+	✓+	✓+	✓+

Notes

- The faster connection the faster sending and receive of an order. A typical TRIOS® order of 30Mb will take approx. 30 seconds to transmit on a 10Mbit/s line.
- The effective upload/download speed may be tested using free tools available on the internet, e.g. www.speedtest.net