



All India Institute of Medical Sciences Jodhpur

Admn//Prop/32/2017-AIIMS.JDH

Dated: - 18th December 2017

Subject: Purchase of Dolphin Imaging Software for Orthodontics Diagnosis and treatment planning (3D Version) for the department of Dentistry at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Dolphin Imaging System for Orthodontics Diagnosis and treatment planning (3D Version) for the department of Dentistry at AIIMS, Jodhpur from M/s Dolphin Imaging & Management Solutions Inc, USA on proprietary basis. The proposal submitted by M/s Essential Dental Products, A – 428 Defense Colony, New Delhi- 110024 and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/32/2017-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 08th January 2018 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

Administrative Officer

Enclosed: Related documents enclosed.



04/01/2017

AGENCY AGREEMENT

This is to certify that M/s ESSENTIAL DENTAL PRODUCTS, A-428, Defence Colony, New Delhi – 110 024, INDIA have been appointed as our authorised distributor for sales, promotion and service for Dolphin Imaging software for India on an exclusive basis for a period of 5 years from 04/01/2017.


Chester Wang
Manager

9200 Oakdale Ave
Suite 500, Chatsworth
CA 91311 U.S.A
Office: +1 918 435 1368
Fax: +1 918 435 1369
www.dolphinimaging.com





All India Institute of Medical Sciences Jodhpur



PROPRIETARY CERTIFICATE

This is to certify that we *Dolphin Imaging & Management Solutions Inc.* a *Patterson Technology Group* company based at 9200 Oakdale Avenue, Suite 500, Chatsworth, CA 91311-5807, USA are the original developers of the "Dolphin Imaging" software used for treatment planning and analysis both for orthodontic as well as oral surgery. As proprietary software manufacturers, we hold all the legal rights for development, modification, enhancement, marketing and sales worldwide.

We also certify that Dolphin software is the only software in the world that provides for proprietary module like *McLaughlin Analysis and VTO Build X-rays and 3D Analysis* including *Grummons Frontal 3D, Hatcher CC 3D Airway, Jacobson 3D, McNamara 4, Vrijens 3D* in Dolphin 3D Imaging software. These modules are exclusive and unique to Dolphin Imaging and are not available with any software manufacturer in the world.

For Dolphin Imaging & Management Solutions


Andrew K. Kelly - (K. Kelly)
Director, Operations

9200 Oakdale Ave
Suite 500, Chatsworth
CA 91311-5807, USA
Office: +1 818 435 1366
Fax: +1 818 435 1369
www.dolphinimaging.com





11/11/2017

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For Dolphin Imaging & Management Solutions


Sonya Lester - Rove
Director - Operations



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Chester Wang
Managing Director

9200 Oakdale Ave.
Suite 500, Chatsworth
CA 91311 U.S.A.
Office +1 818.435.136
Fax +1.818.435.1369
www.dolphinimaging.com



**3D IMAGING SOFTWARE FOR ANALYSIS AND TREATMENT PLANNING FOR
ORTHODONTIC AND MAXILLOFACIAL SURGERY -**

SPECIFICATION FOR THE SOFTWARE (PART A) AND HARDWARE (PART B)

Part A: Detailed Specification of the Software

1. The software should be and FDA cleared Class II medical Device
2. The software should be able to makes processing 3D data extremely simple, enabling dental specialists from a wide variety of disciplines to diagnose, plan treatment, document and present cases.
3. The software should allow visualization and analysis of craniofacial anatomy from data produced by cone beam computed tomography (CBCT), MRI, medical CT and 3D facial camera systems.
4. Should feature tools for on screen manipulation and analysis of volumetric datasets and tissue density thresholds could be adjusted for detailed views of craniofacial anatomy
5. Measurements and digitization can be performed in both 3D and traditional 2D.
6. Should be able to execute McLaughlin Analysis and VTO, Build X-rays and 3D Analysis including Grummons Frontal 3D, Hatcher CC 3D airway, Jacobson 3D, McNamara 3D analysis in imaging software.
7. Should be able to
 - i. Import from a variety of 3D dataset formats
 - ii. High-quality, fast 3D rendering
 - iii. Three-dimensional airway analysis
 - iv. Cross sections in Multiple Planar View (MPV)
 - v. Precise volume orientation
 - vi. Volume stitching: combine two separate volumes into one
 - vii. 2D facial photo wrap onto volume.
 - viii. Volume-to-volume superimposition
 - ix. 3D nerve marking
 - x. TMJ analysis
 - xi. Generate cephalometric and panoramic radiographs
 - xii. 3D-2D measurements: distance, angle and area
 - xiii. Create animated movies with automated scripts
 - xiv. Design image layouts and reports
 - xv. Images export to other applications
 - xvi. Images easily saved into Dolphin patient database
 - xvii. Fully embedded in Dolphin Imaging's SQL database
 - xviii. 3D implant treatment planning and simulation
 - xix. Distinguish biological structures via their radiolucency with a Hounsfield Unit measuring tool



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- xx. Digital study model system for STL format teeth surfaces.
 - xxi. Image with hard, photo model wrap, airway, digital teeth
8. Digital Study Model feature integrates with any digital study model system that exports to STL format, including:
- i. Intraoral scanners
 - ii. Desktop model scanners
9. 3D Implant Planning
- i. Add implants to a patient's 3D image for more precise treatment planning and presentation. Place, move, and rotate implants on the volume, slice or panoramic views. Select implant types from a generic implant template library and specify the size. Zoom in and out on an implant; define a "safety zone" around each; segment and sculpt the volume to clip around the implant; measure distances and angles; locate nerve canals; export the final simulation as an iso-surface.
 - ii. Comprehensive library of implants from the industry manufacturers.
 - iii. Prosthetic teeth
10. Create two-dimensional radiographic images from 3D volume dataset in the lateral, panoramic (OPG), frontal and SMV views. Reconstruct radiographs (Build X-Rays) in:
- i. 1:1 projection (no distortion, no magnification)
 - ii. Simple orthogonal/magnification projection (input % of magnification desired)
 - iii. Complex "traditional x-ray perspective" projection (input detailed X-ray machine geometry; most accurately simulates traditional X-ray)
11. Cephalometric tracing
12. Automatically create animated movies by collecting "key frames" from your 3d volume or slice views.
13. Create a texture map on the facial surface of any CBCT, CT or MRI scan.
14. Superimpose volume scans from different time points to visually track and accurately measure treatment changes in bones and in airways.
15. Multiple planar views and layouts
16. Allow comprehensive case planning and presentation tool that animates the patient's skeletal and facial changes in real time and outputs to a precise surgical guide.
17. Splint: Customizable surgical guide fabrication data files generated for physical printing.
18. The tool should use the simulated treatment in an animated sequence of pre-/post-operation configurations in all three dimensions. This allows to carefully study detailed treatment nuances; demonstrate plan to the patient; or conduct case presentation.



19. The Treatment Simulation software module allows to plan, diagnose and present cases from the lateral view. Multidisciplinary VTO Wizards include step-by-step interactive programs for quick and easy analyses and treatment planning. Treatment Simulation should be used for both orthodontic and surgery cases.

20. Orthognathic Surgery simulations should include

- i. Le Fort, BSSO, Double jaw, Genioplasty
- ii. Rinoplasty
- iii. Cheekbone implant
- iv. Model block surgery report
- v. Precise profile soft tissue touch-up and contouring tools

21. Should include with image touch-up, morphing tools.

22. Lateral Cephalometric Analysis for Orthodontic and Surgical Use - Ceph Tracing