

# Titan

CCD based Universal DR System

# 2000

# Principle Differences of comed is...

- ✓ Holding **Source Technology** of Core Components
- ✓ Providing Real-time **Custom Built Specification**
- ✓ Supporting Customer Service through **Global Network**





## a small step toward Digital...

### Do you still have a doubt for going digital?

Well, here is a good news for you. All you need to do is a single step forward with Titan2000 digital radiography system. Now you can equip full digitalized radiography system in your facility within affordable budget. With its compact design and size, Titan2000 takes only a small space.

### Pull your shoulders back

With Titan 2000 you will be benefited from big advantages in digital radiography. Filmless procedure will remarkably improve workflow while you spend more time with your patient instead of spending in a darkroom.

Collateral advantages from strictly controlled radiation dose usage, prevention of pollution caused by chemicals from film development, and space saving from film storage are also expected.

Equipped with comed's accumulated experience in market over a decade, you can put your trust in Titan2000.

# Single System, Multiple Results!

Titan2000 with floor mounted stand including CCD detector with high capacity X-ray tube, auto collimator, and motorized movement of detector & tube allows easy positioning



## Detector

Cutting Edge Digital Detector ensures highest image acquisition from 6 to 16 mega pixels

- Removable Carbon Fiber Grid
- Scintillator
- Ion Chamber

## Universal Arm

Multi purpose U-Arm frame for table and stand position by one detector

## Position Display

Displays SID, rotation angle, and height of U-Arm(FID)

## Operating Console

Touch Panel LCD for main frame operation

## Auto Collimator

Full motorized auto collimator for accurate radiation control

## Technology with Passion

Titan2000 is equipped with the latest technology developed by comed.

Atlas™ detector with high resolution CCD camera always promises the best image quality.

XView™ software empowered by DaVinci™ image processing engine provides high definition detail with convenient user interface.

Proudly designed Titan2000 with reliable generator brings you on to a whole new digital environment

## Universal Applications

Titan2000 is designed to fit in any medical environment from small clinic to large medical center. From chest to table position, most applications in vertical and horizontal positions are easily available







## Smooth workflow, Increased Efficiency

Filmless procedure is more convenient and faster than conventional radiography system. Smooth workflow will prevent possible time waste and encourage you to spend more time with your patients. Image diagnosis rate will be increased and helps to discover illness in earlier stage.

Thanks to Titan2000, you will enjoy increased efficiency with reduced cost and higher patient throughput.

### Operation within your fingertip

*XView™* software guides you to digital radiography environment. You have full control of the system using *XView™* including patient registration, generator control, image acquisition & processing, modification, and finally transfer to PACS.

Having Titan2000, now you put one step forward to network with radiologists around the world.

### PACS

Creative Image Management!

Efficient management of patient images enables effective diagnosis.

With powerful *XView™* in Titan2000, which is fully compatible with DICOM 3.0 and HL7, you will experience higher stage of medical image management.

- ✓ **Viewer Solution**
- ✓ **DICOM Gateway**
- ✓ **DICOM Print**
- ✓ **DICOM CD-View**



## Enjoy our Experience, *DaVinci™*

Experience *DaVinci™* image processing engine powered by comed's accumulated experience over 10 years in digital radiography.

*DaVinci™* ensures high quality image by preset parameters for optimized image coupled with numerous APR. *DaVinci™* also enables you to set various parameters by user preference.

## Efficient Work with *XView™*

Titan2000 is ready for exam within few seconds after exposure, which reduce patient's waiting time.

*XView™* provides clearly user friendly interface and various functions from image viewing to modification to enhance image quality.

Combined with *SView™*(PACS solution), you can build your own department PACS system and enjoy advantages from digital network environment.

### *XView™*

Image acquisition, processing, and viewing Software

#### Patient Registration

- Various patient information input method
  - Manual Input
  - Import from Worklist / DB file format
  - Barcode System

#### System Control

- Selection of APR (adding new APR available)
- Auto Collimator control
- Four point control (Kv, mA, Time, mAs)
- AEC control
- Generator control

#### Image Viewer

- Thumbnails function
- Icon driven window/level control, magnification, measure and more
- Full Spine function
- DICOM Import/Export
- JPEG, TIF and various image file format.
- Direct DICOM Printing
- Report Function with Paper printer







# Feel cutting edge technology with a single touch

What can you expect from digital radiography system in terms of reliability?

The system that you can rely on day by day operations.

That is why Titan2000 equipped with latest technology should be your choice. Titan2000 is strictly designed and backed by comed technology with accumulated experience to fit all specific needs of current medical environment.

## Advanced Technology in Titan2000

Take a close look at Titan2000. What you will see are latest technology applied components.

Semi permanent 9&16Mpixel CCD detector in 16 bit image depth presents highest quality image while strictly controlling optimized radiation dose.

In addition, *DaVinci™* image processing technology achieves accurate details and eliminate processing artifacts.

## Recognizably Simple Control

Operators request ergonomic design as well as ease of use in operation. Titan2000 contains motorized U-Arm and floor mounted stand which satisfy less space requirement for medical facilities. Motorized movement control by touch panel console and remote controller enables simple and easy operation.



# Diverse Application for your daily Operation

Titan2000 comes with diverse application. From erect to supine position, all major body parts are easily covered





# Magnificent Image Quality

Generator, detector, and image software play major roles in high image quality. comed strictly puts priority to image quality in Titan2000.

In pursuit of the best image quality, Titan2000...

- is empowered by unique image processing engine *DaVinci™*
- accurately controls High Frequency generator
- is equipped with effectively designed detector

## High Frequency Generator

Stable generator is essential to digital radiography system. comed generators are specially designed to digital radiography system with various features.

### High Frequency Inverter

From 40 to 80kW, 300 to 1,000mA, comed provides various range of generator with stabilities



#### Proven Stability

Globally installed over 1,000 units and proving its guaranteed reliability

#### Self Diagnostic Circuitry

Reports error codes in possible malfunction

#### Overload Protection System

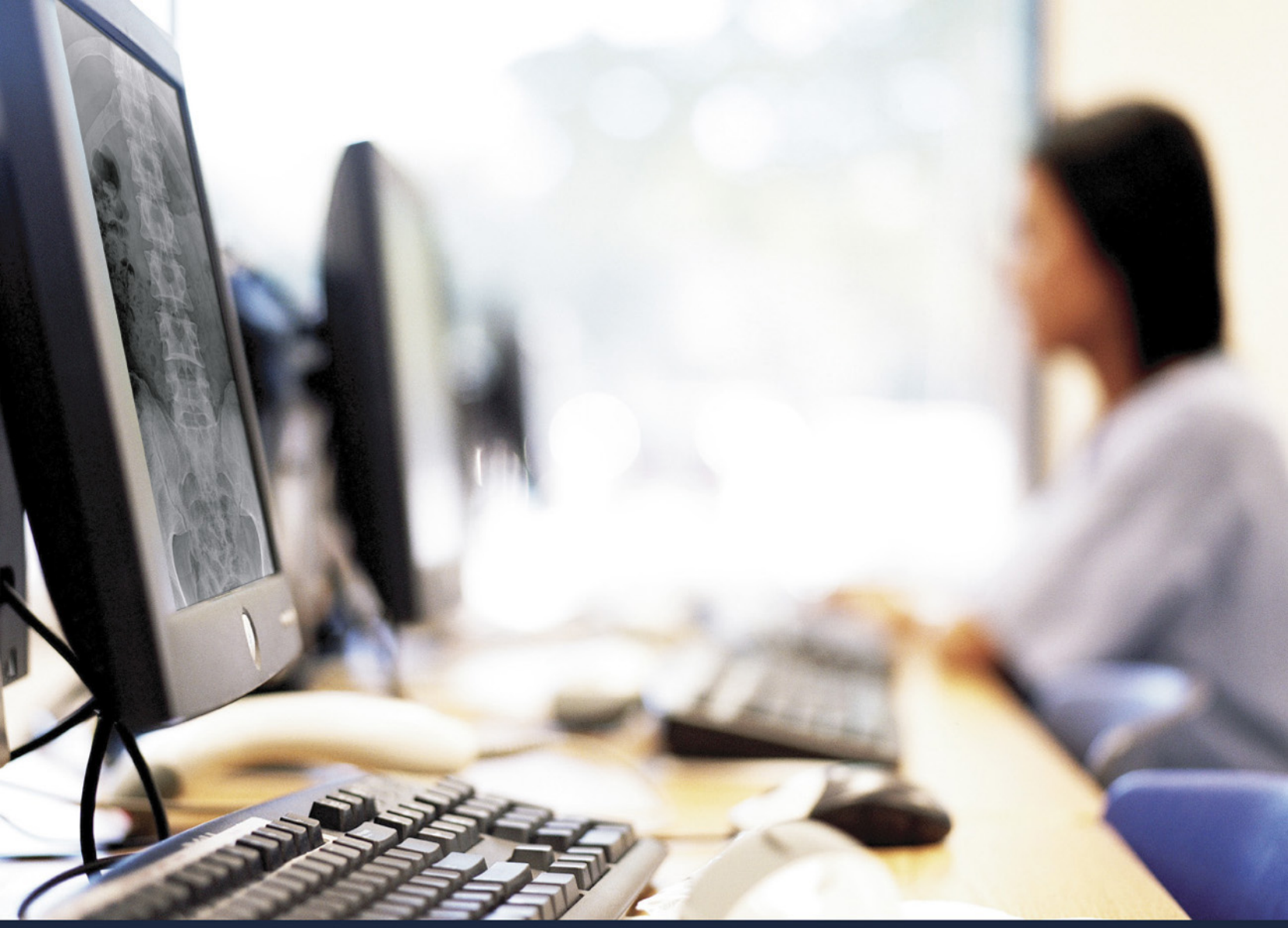
Connection with temperature sensor in X-ray tube enables auto disconnection when overheated

#### Connection with Workstation

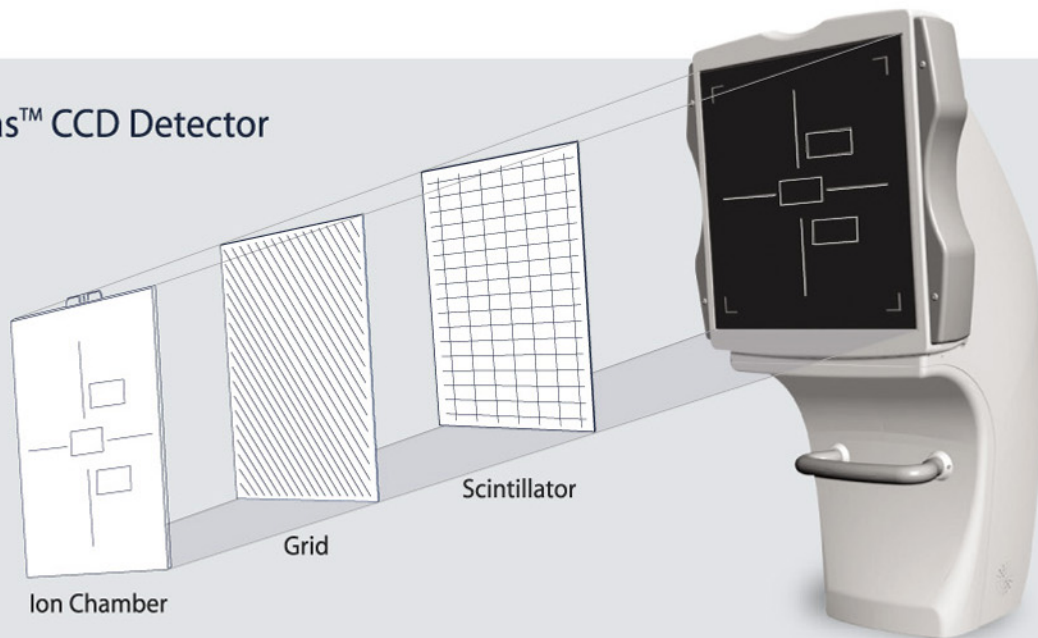
Generator control is fully operated by workstation

#### Auto Exposure Control





### Atlas™ CCD Detector



High performance optical lens with no distortion and no penetration loss maximizes accurate image result. Solely developed cooling mechanism prevents possible overheat in long operation and minimize noise affecting image quality.



# For your Comfort and Safety

Titan2000 offers various features for your safety and comfort



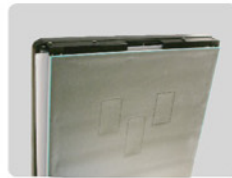
**Operating Console**  
Touch Panel LCD for main frame operation



**Auto Collimator**  
Full motorized auto collimator for accurate radiation control



**Tube Movement**  
Motorized Tube rotation for various application



**Auto Exposure Control**  
Accurate exposure control for less radiation dose

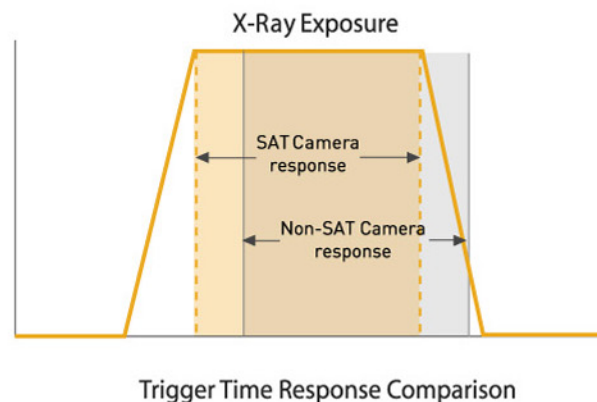


**Position Display**  
Displays SID, rotation angle, and height of U-Arm(FID)



**Automated System**  
Position Memorized Feature enables the system to automatically move to preset positions. For flexible application, you can manually move tube and detector rotation

## Synchronized Automatic Trigger System (SAT)



Titan2000 unique trigger system, SAT automatically triggers camera to capture signal from X-ray exposure without photon diode sensor



■ **Collision Protection**  
Prevents possible collision in all cause

■ **Emergency Stop Button**  
User can cease the system with  
Emergency Stop Button in case of  
emergency

### Reliability is the core in medical device

Users keep themselves in high level of concentration constantly during operation. Nevertheless comed applied patient safety features into Titan2000 for any possible safety accident.  
Emergency stop switch cease all movement of system immediately and detect sensors prevent any accidental collision by initiating auto-stop.

# Different Level of Customer Service

Our customer satisfaction policy assures trustful partnership before, during, and after the purchase. While the system is in your medical facility, our service expertise provide best quality customer service now and in the future.



## Service Excellence

Principles of comed philosophy are prompt response in customer service and providing best quality products. Global service network with highly qualified engineers, immediate response service personals, and flexible supply of spare parts will make you to undergo to a new stage of excellence.

## 3P Customer Satisfaction

Since its establishment in 1995, comed has put priority to customer's satisfaction. By setting 3P Customer Satisfaction Policy, we have contributed for higher standard of customer service.





**comed**  
The Power of Passions

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