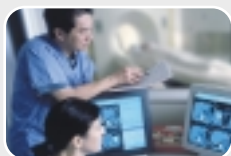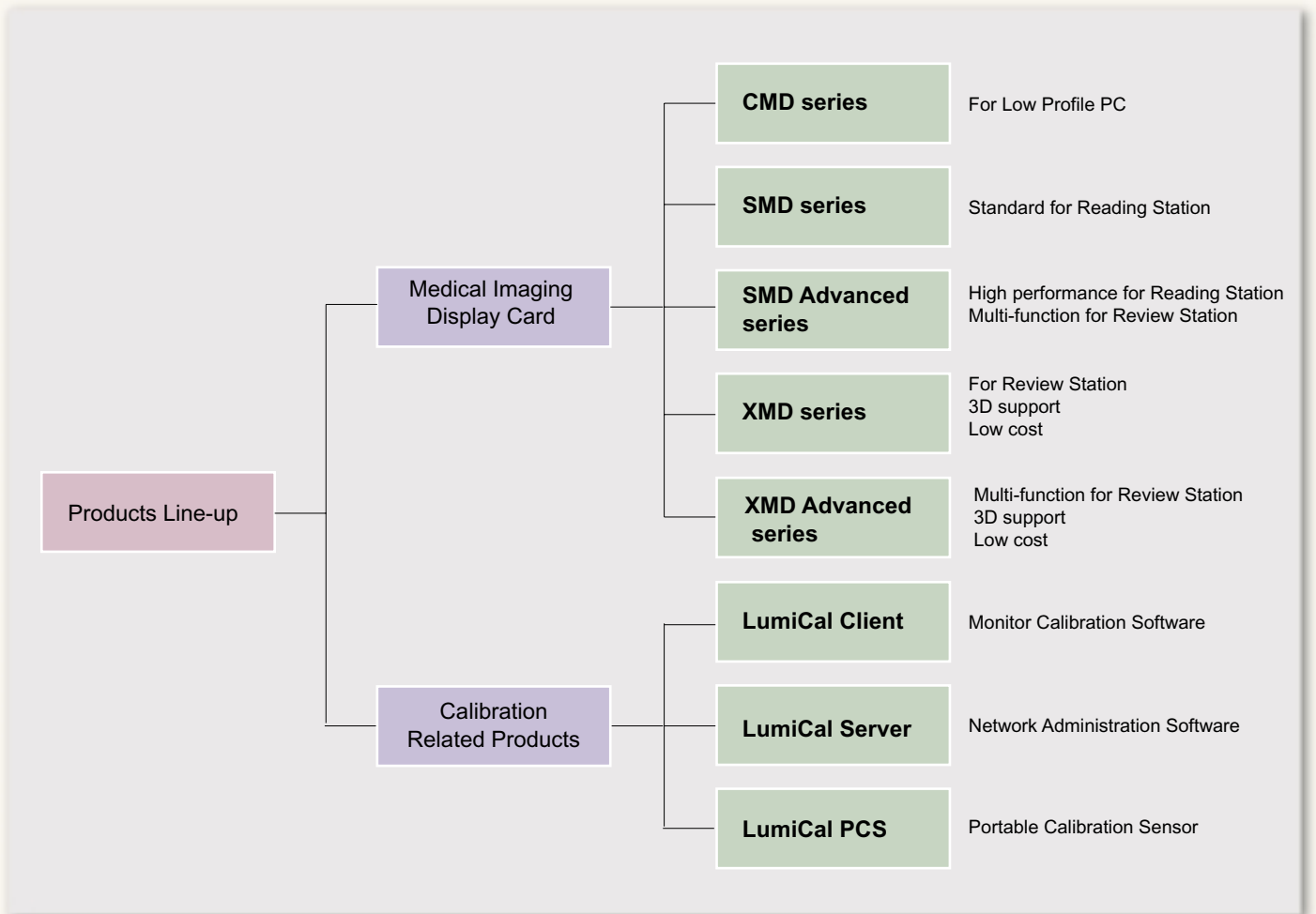# Medical Imaging Solution
# from RealVision
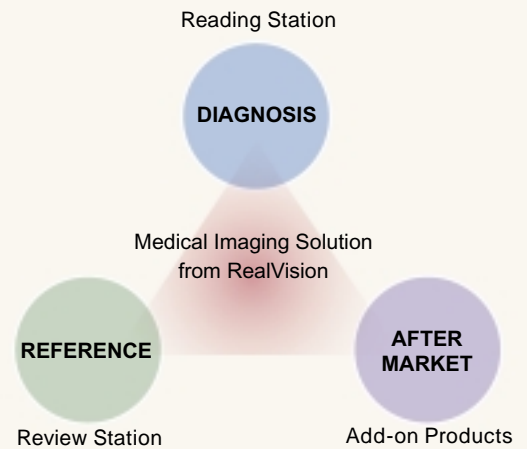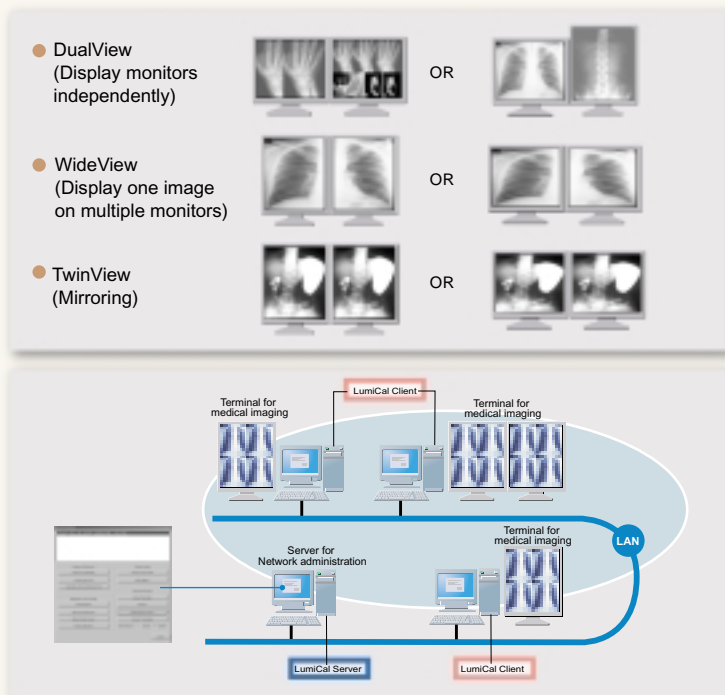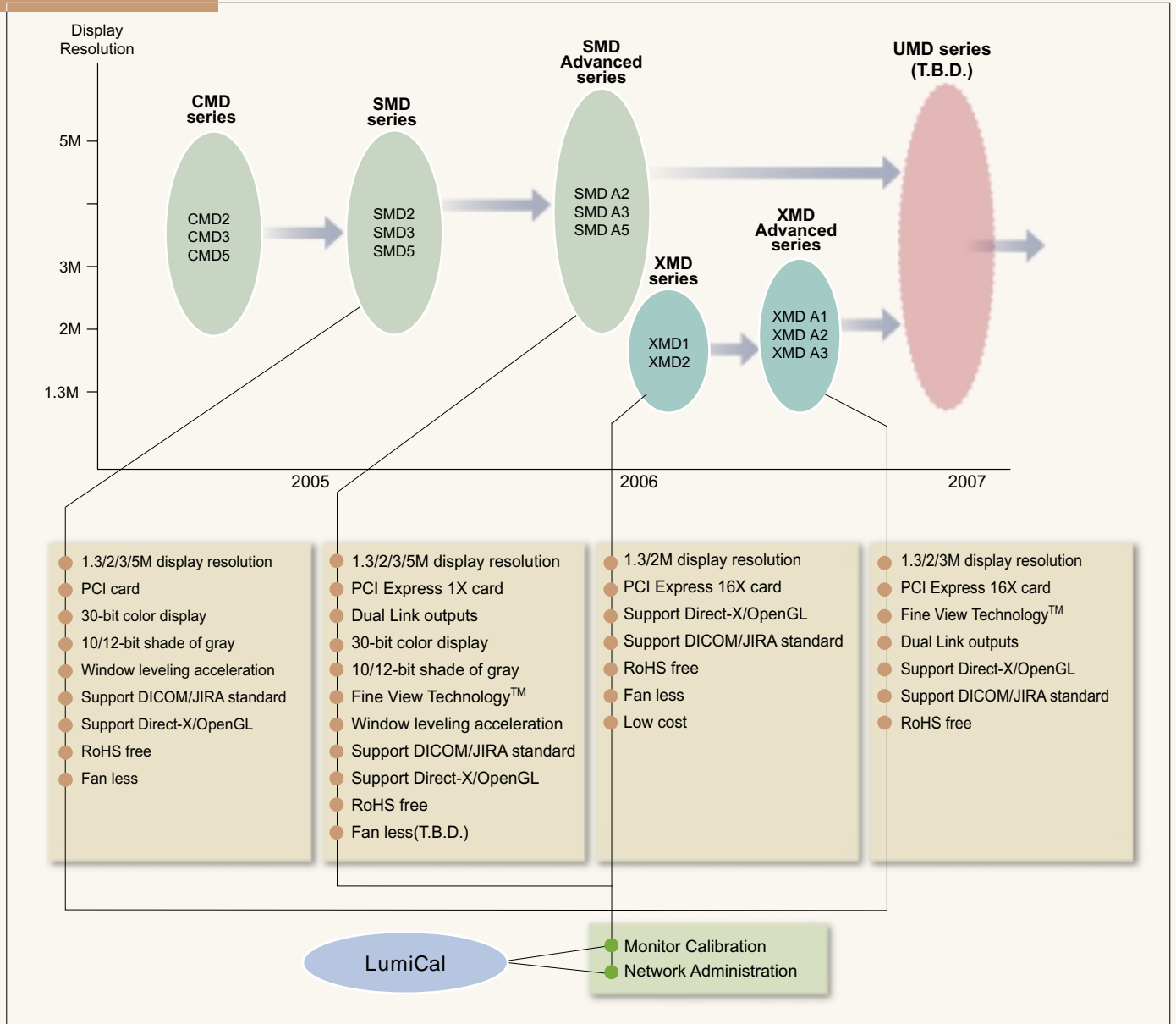
**RealVision**

RealVision provides the Medical Imaging Solution both for Reading Station for diagnosis and Review Station for doctor's reference along the various requests from hospital information technology developments. Starting with medical imaging display cards (VREngineTM) that can display medical images for various LCD monitors from low cost PC use to high resolution medical imaging dedicated, Monitor calibration software, Network administration software and Portable calibration sensor that supports most of LCD monitors are provided with driver software and rich technical supports.

## FEATURE of RealVision's Products

- Support Reading Station for diagnosis - High precision and high resolution
- Support Review Station - High-cost performance
- Monitor calibration based on DICOM Part.14
- Network Administration
- Support both of gray scale and color
- High shade of colors display - gray scale 8/10/12-bit, color 8/16/24/30-bit
- Fine View TechnologyTM on-board
- Support various type of monitors from medical imaging dedicated monitor to PC monitor

Reading Station

**DIAGNOSIS**

Medical Imaging Solution
from RealVision

**REFERENCE**

Review Station

**AFTER MARKET**

Add-on Products

| Products Line-up | Medical Imaging Display Card | CMD series | For Low Profile PC |
| | | SMD series | Standard for Reading Station |
| | | SMD Advanced series | High performance for Reading Station Multi-function for Review Station |
| | | XMD series | For Review Station 3D support Low cost |
| | | XMD Advanced series | Multi-function for Review Station 3D support Low cost |
| | Calibration Related Products | LumiCal Client | Monitor Calibration Software |
| | | LumiCal Server | Network Administration Software |
| | | LumiCal PCS | Portable Calibration Sensor |

## VREngine Roadmap

Display Resolution

5M

3M

2M

1.3M

**CMD series**
- CMD2
- CMD3
- CMD5

**SMD series**
- SMD2
- SMD3
- SMD5

**SMD Advanced series**
- SMD A2
- SMD A3
- SMD A5

**XMD series**
- XMD1
- XMD2

**XMD Advanced series**
- XMD A1
- XMD A2
- XMD A3

**UMD series (T.B.D.)**

2005 — 2006 — 2007

**CMD series features**
- 1.3/2/3/5M display resolution
- PCI card
- 30-bit color display
- 10/12-bit shade of gray
- Window leveling acceleration
- Support DICOM/JIRA standard
- Support Direct-X/OpenGL
- RoHS free
- Fan less

**SMD series features**
- 1.3/2/3/5M display resolution
- PCI Express 1X card
- Dual Link outputs
- 30-bit color display
- 10/12-bit shade of gray
- Fine View Technology™
- Window leveling acceleration
- Support DICOM/JIRA standard
- Support Direct-X/OpenGL
- RoHS free
- Fan less(T.B.D.)

**XMD series features**
- 1.3/2M display resolution
- PCI Express 16X card
- Support Direct-X/OpenGL
- Support DICOM/JIRA standard
- RoHS free
- Fan less
- Low cost

**XMD Advanced series features**
- 1.3/2/3M display resolution
- PCI Express 16X card
- Fine View Technology™
- Dual Link outputs
- Support Direct-X/OpenGL
- Support DICOM/JIRA standard
- RoHS free

**LumiCal**
- Monitor Calibration
- Network Administration

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- DualView (Display monitors independently)  OR
- WideView (Display one image on multiple monitors)  OR
- TwinView (Mirroring)  OR

Terminal for medical imaging
LumiCal Client
Terminal for medical imaging
Server for Network administration
Terminal for medical imaging
LAN
LumiCal Server
LumiCal Client

## FEATURE of SMD, SMD-Advanced series

- **Display colors**
  - Gray scale : 8/10/12-bit
  - Color : 8/16/24/30-bit
  - API : Standard GDI

- **Hardware Window Leveling Acceleration**
  - Speedy and smooth window leveling
  - Integrate LUTs for window leveling
  - Independent window leveling on three windows using three LUTs (SMD-Advanced series)

- **Support Dual Link outputs (SMD-Advanced series)**
  - Dual display capability for 2M/3M/5M color LCD monitors

- **Support three display modes**
  - DualView
  - WideView
  - TwinView

- **LumiCal - dedicated software for VREngine**
  - Monitor Calibration
  - Network Administration

- **RoHS free and Fan less**

## CMD series

VREngine/CMD series is the medical imaging display card compatible with low profile PCs. The card can be connected to two LCD monitors with DVI connectors through LFH connector.

### FEATURES

- PCI card
- Display resolution : 1.3M/2M/3M/5M
- Dual monitor display (1.3M/2M/3M/5M
- Portrait display
- Three display modes (WideView, TwinView, DualView)
- Gray scale display by 10-bit shades of gray
- Frame memory : 64MB
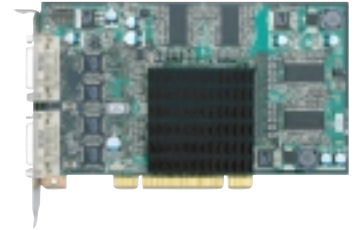- LumiCal full compatible
- FAN less
- OS : Windows XP

## SMD series

VREngine/SMD series is the medical imaging display card for standard of Reading Station. The card is integrated functions that enables high-resolution, high-precision, high-shades of gray display.

### FEATURES

- PCI card
- High shades of color display   8/10/12-bit   gray scale , 30-bit   color
- Window Level Acceleration function
- Display resolution : 1.3M/2M/3M/5M/9M
- Dual monitor display (1.3M/2M/3M/5M
- Portrait display
- Frame memory : 512MB
- LumiCal full compatible
- FAN less
- RoHS free
- OS : Windows XP

## SMD Advanced series

VREngine/SMD-Advanced series is the medical imaging display card supporting from Reading station to Review station. Various functions for high resolution, higher shades of color and high precision are integrated

### FEATURES

- PCI Express 1X card
- Fine View Technology™ on-board
- High shades of color display   8/10/12-bit   gray scale , 30-bit   color
- Window Level Acceleration function
- Display resolution : 1.3M/2M/3M/5M/9M
- Dual monitor display (1.3M/2M/3M/5M
- Portrait display
- Frame memory : 512MB
- Dual Link outputs
- LumiCal full compatible
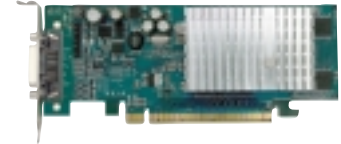- RoHS free
- OS : Windows XP

## XMD series

VREngine/XMD series is the medical imaging display card that satisfies low cost Review station needs and further rich color and 3D graphics processing are provided.

### FEATURES

- PCI Express 16X display card
- Display resolution : 1.3M/2M
- Dual monitor display (1.3M/2M)
- Portrait display
- Frame memory : 256MB
- Full support of 3D applications (Direct-X, OpenGL)
- LumiCal full compatible
- Low profile card
- FAN less
- RoHS free
- OS : Windows XP
- Low cost

## XMD Advanced series

VREngine/XMD-Advanced series is the medical imaging display card supporting from Reading station to Review station. XMD Advanced provides both of low cost and high precision color 3D graphics performance for Review station needs.

### FEATURES

- PCI Express 16X display card
- Fine View Technology™ on-board
- Display resolutions : 1.3M/2M/3M
- Dual monitor display (1.3M/2M)
- Portrait display
- Dual Link
- Frame memory : 256MB
- Full support of 3D applications (Direct-X, OpenGL)
- LumiCal full compatible
- Low profile card
- FAN less
- RoHS free
- OS : Windows XP

## Lumical series

LumiCal series products are software products for monitor calibration and network administration developed for the RealVision medical imaging display card (VREngine series).

For Medical  imaging, the monitor calibration is required so that monitors have consistent quality in order to assure that  all imaged will look the same on any monitor anytime. Also, a network monitoring function is required to  identify status or problems on the network, as well as insure that the monitors are properly calibrated and maintained.

Lumi Cal PCS

**LumiCal series is composed by following products.**
- LumiCal Client : Monitor calibration software
- LumiCal Server : Network administration software
- LumiCal PCS : Portable Calibration Sensor