

# Overview of USC

- Opened 1996
- 500 staff 7000 students
- 40 staff in IT Dept
- 15% growth in students 2010

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Oniversity of the Sunshine Coast, Queensland, Australia | CRICOS Provider No. 015950



# History

- Counselling rooms
  - DVD recorder
  - Sony Camera
  - LCD TV
  - Kramer switches
- Harmony Remote (Macro functions)



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# **Project**

- The faculties of science and Arts seek a video recording, storing and archiving, streaming and viewing technology solution to carry out activities such as
  - Paramedics
  - Occupational Therapy demonstrations
  - Sports and Exercise recording of athletes
  - Counselling sessions for teaching and learning purposes.
- The solution is expected to be funded with approx \$250,000

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# Requirements

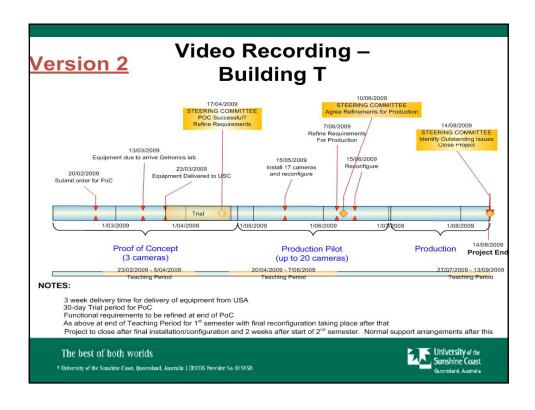
- Find a solution that will allow users (staff/students) to control the recording of 20 cameras located in 15 designated areas
  - Choose the destination of the recording, i.e. secured and private location on the network
  - Send life streaming into an adjacent viewing area
  - Record and stream simultaneously
  - Post-recording management of data e.g. make available to other users or groups

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Requirement	Description	Indigo Visio Compliance	Test Verified
Video Quality	At least VGA quality - able to clearly identify facial expressions, etc.	yes	
Audio Quality	Lip synchronised and able to clearly follow a conversation	yes	
Security and Privacy	Recordings or Live streams cannot be accessed by unauthorised users	yes	
PC to Camera relationship	PC can only record from designated camera	yes	
File storage	Files to be recorded to user accessible secure and private location	yes	
User Controls	Start, Pause, Stop, view previous recordings, delete	yes	
Camera Controls	PTZ (at least some), auto focus	yes	
Bandwidth friendly	2Mbps is acceptable = around 1GB per 1 hour of recording	yes	
Live Streaming	Admin user can enable live streaming from camera to Viewing area	yes	
Stream and Record	Record session while live streaming to viewing area	yes	
Scalability, Robustness	Must be scalable and perform to acceptable HCI standards	yes	
Metadata	Searchable contextual user defined data	yes	
Overlays	Metadata on video screen	yes	



# Who we compared

- Cisco\Getronics
- Tandberg\Didata
- Digital Rapids cards
- Mediasite
- Starbak\AVI
- Naskam\IndigoVision (VideoPro)

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#### Cost Breakdown

 Camera, Encoder, including Installation and Configuration \$6,500

• Wireless Mic (Lapel) \$1,000

 Dongle License to record multiple streams (camera) from single PC \$900

• Mobile Trolley \$800

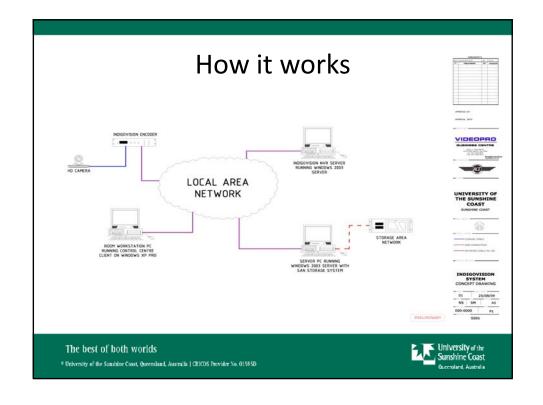
• PC \$1,003

• Total \$10,203

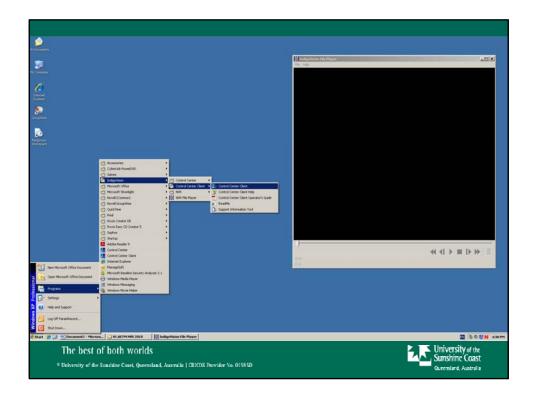
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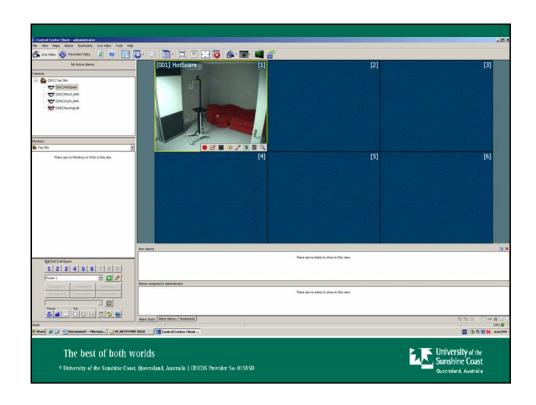
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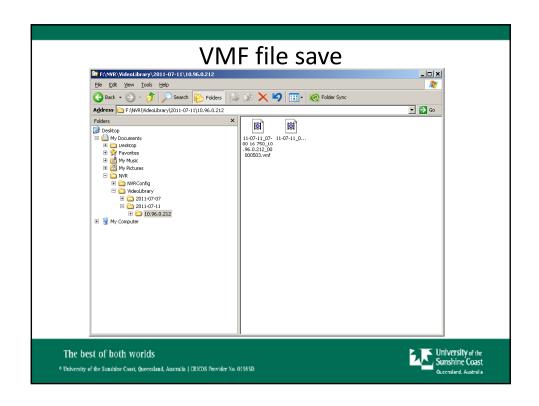


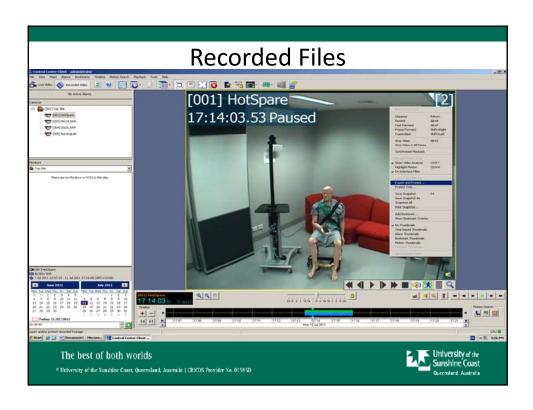


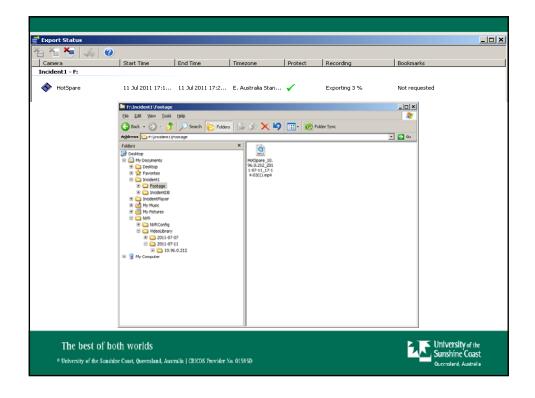




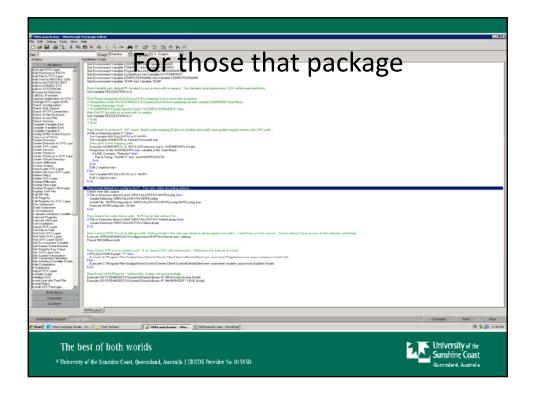












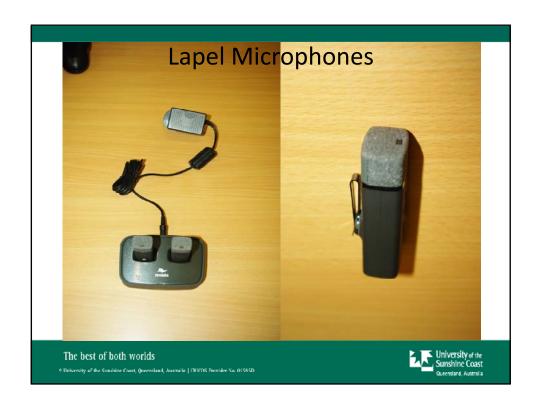
- NVR 3.19 (MST to remove NVR Admin.exe, this allows silent install
- Control Centre Client 3.18
  - **Delivers Custom** 
    - NVR cccdb Configtool.exe
       NVR Launch.exe
  - Calls NVR cccdb Configtool.exe
- Control Centre 3.18
  - Delivers custom ControlLaunch.exe
- Launch/Run Control Centre Client
- Start menu item "Control Centre Client" actually launches "NVR Launch.exe
- **Launch Control Centre**
- Start menu: ten "Control Centre" runs ControlLauncher.exe
- F:\ is network share
- NVR Launch.exe
- Set registry entries to student F:\ (UNC Path)
- Install NVR Config files to student F:\
- Create Video Library folder student F:\
- Execute NVR server.exe debug
- Execute Control Centre Client.exe –username: XXXXX –password
- Execute taskkill.exe /F/IM NvrServer.exe
- Control Launch.exe
- Set registry to Staff F:\
- Run" NvrServer.exe" as user with -debug
- Run ControlCentre.exe prompt for password

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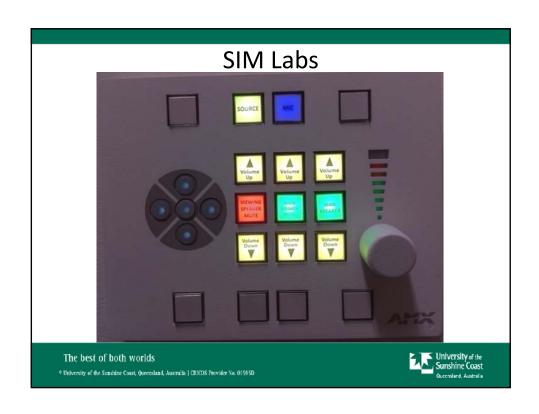






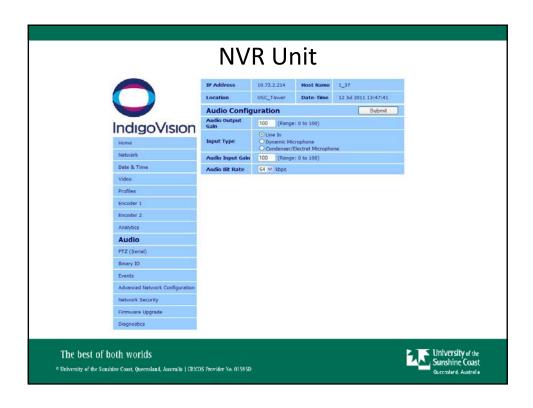


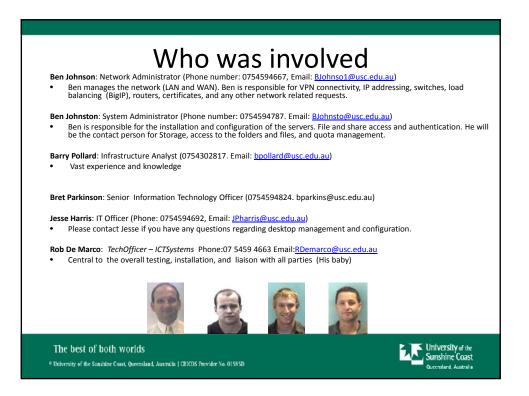


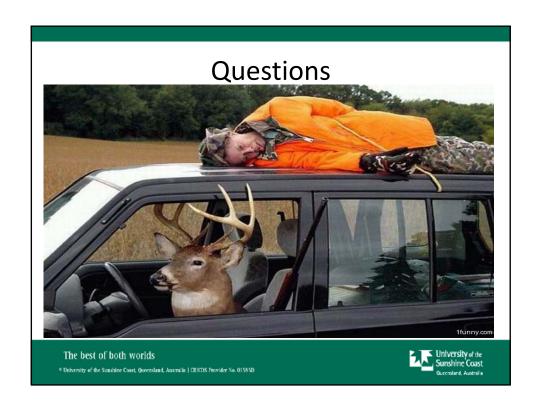


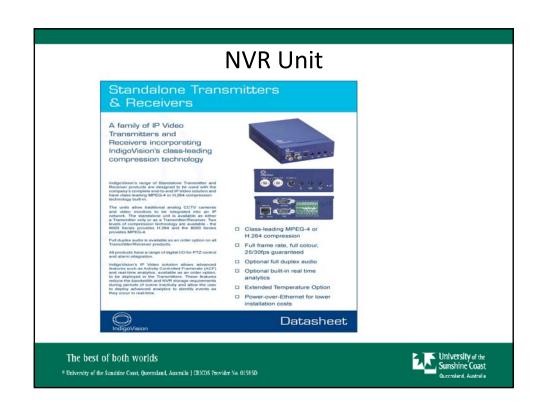


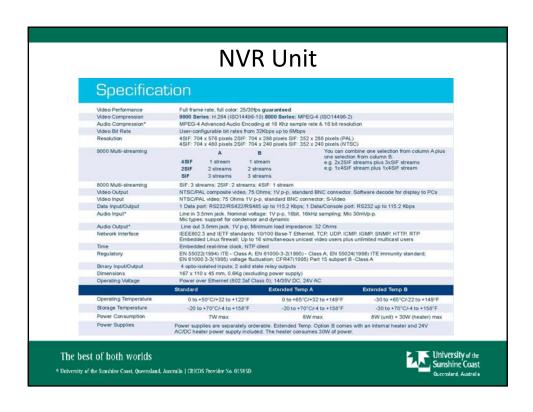














# Naskam

Regards,



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