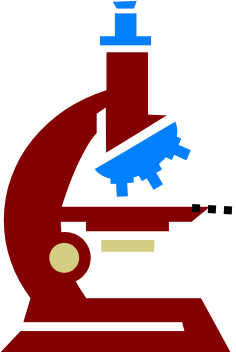
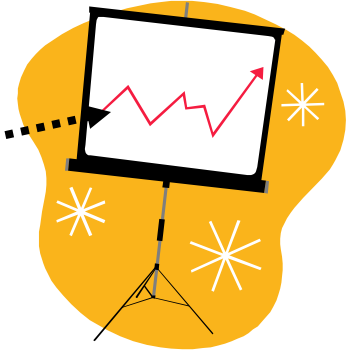


Scope

Camera

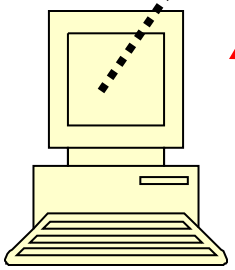


Projector
Remote

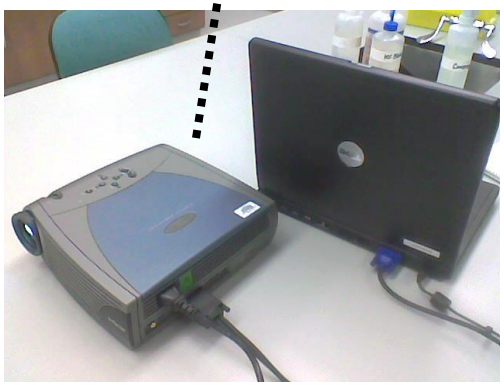
Instructor
Projector

Wireless Mouse
With Laser pointer

Projection System SOP



Instructor
PC , DVD Player



Portable
Projector

Walkie
Talkie

Prepared by: Bob Morrison
STLCC, Instrumentation Specialist

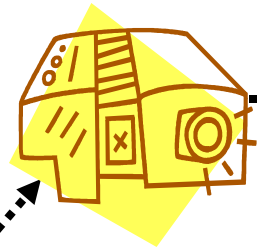
Projection: BRDG, Document Camera, Desktop Model Epson ELPDC05

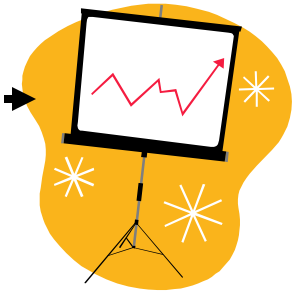
General Device Type Document camera
Width 27.4 in Depth 21.3 in Height 21.8 in Weight 21.6 lbs Still Image 1024 x 768
Features Remote control , Image Sensor , Type CCD 1/3" , Lens Iris F/2.8 , Focus Adjustment Automatic, manual Interfaces Video S-Video, composite video
Expansion / Connectivity
Interfaces 1 x management - RS-232C - 9 pin D-Sub (DB-9) ¦ 2 x display / video - VGA - 15 pin HD D-Sub (HD-15) ¦ 1 x display / video - S-video output - 4 pin mini-DIN ¦ 1 x display / video - composite video output - RCA
Cables Included 1 x S-Video cable ¦ 1 x display cable ¦ 1 x VGA cable
Power Device Power supply (50/60 Hz) 43 Watt Battery AAA type x 2

HotLink to EPSON Brochure, overview…. pdf

Provides high-performance 18X optical zoom for capturing minute features
2X digital magnification (with live camera) works together with the optical zoom to enlarge images up to 35 times
Features built-in image rotation - 90º, 180º, 270º
Clear Screen/Image mode eliminates random noise
Built-in RS-232C interface for communication with a remote control system
Designed to provide powerful support for your presentation, the ELPDC05 High Resolution Document Imager from Epson® gives you true XGA 1024x768 pixel resolution. Utilizing a 1/3" CCD, this imager captures fine details in images, text and 3-D objects. Its built-in base light provides optimum image quality for transparencies, slides, negatives, blueprints, and X-rays, while a live camera enables users to zoom in up to 35 times. The unit's RGB switching function allows for seamless transitions between two applications. The one-touch freeze function stabilizes motion on the screen and displays it as a still image. The built-in scrolling feature ensures an extensive image coverage while, the built-in white balance feature enhances contrast.
Compatible with a full line of Epson® PowerLite® projectors, this Document Imager comes with a wireless remote control. Featuring a convenient handle and compact design, the ELPDC05 Document Imager is easy to carry at your next presentation.
Included Accessories:
Remote Control, 2 AAA Batteries, Power Cord, RGB Video Cable, RCA Video Cable, S-Video Cable
Manufacturer Part# : V12H162020 Dell Part# : A0374595

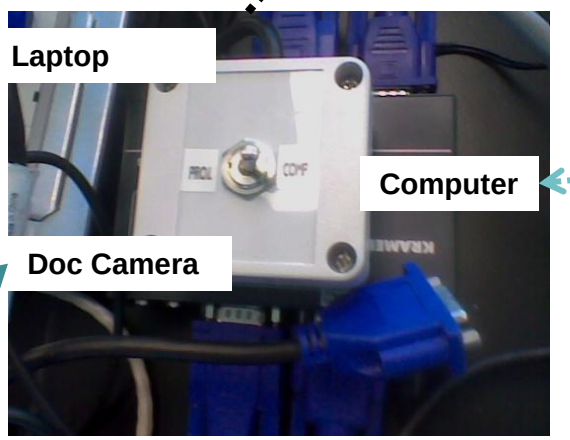
Projection: BRDG Classroom, Computer ,Doc Camera, Laptop

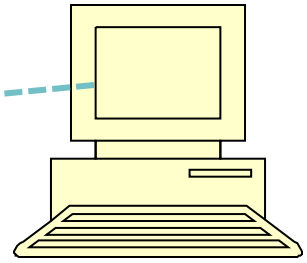




Personal Laptop:

1. Insert extra RGB (blue connector) from rear Doc camera to laptop rear blue port
2. Insert green audio cable to laptop port
3. Set toggle switch to Laptop mode
4. <u>Turn on Document Camera</u>
5. On left side of Doc Camera, push the RGB1 button to switch to laptop video
6. Push Laptop fn and Func key to activate shared monitor mode if necessary

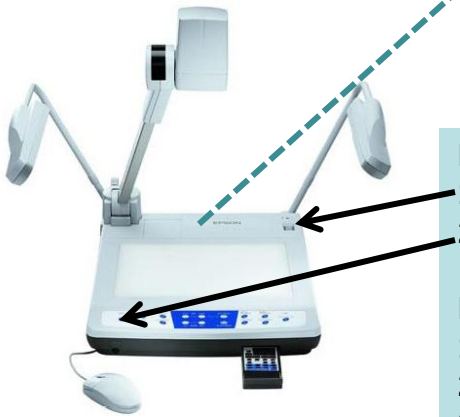




Computer:
Web, DVDs
Powerpoint

FIRST LOCATE 2" x 2" white SWITCH box and set to the device you are using for input. Adjust volume using the thumb wheel box and/or the Amplifier volume control inside the cabinet.

Document Camera Objects, Paper or transparencies



Document Camera Controls:

1. Turn on with toggle in right rear on top
2. On left side, MAIN button must be lit (on)

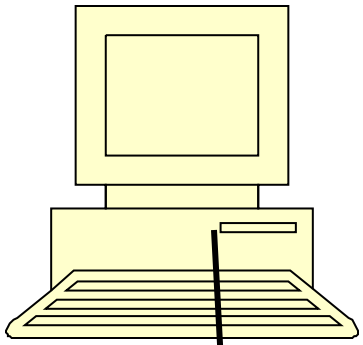
Light Controls.

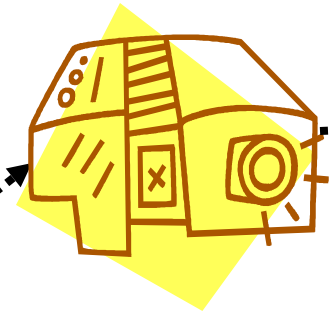
1. Press once for Upper Lights (document)
2. Press again for Base transparency light
3. Press again to turn off lights

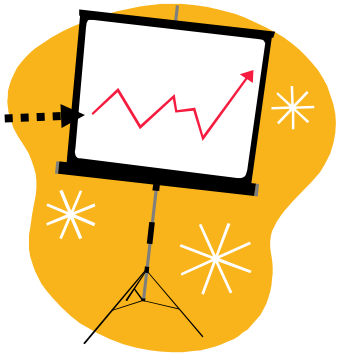
Remote:

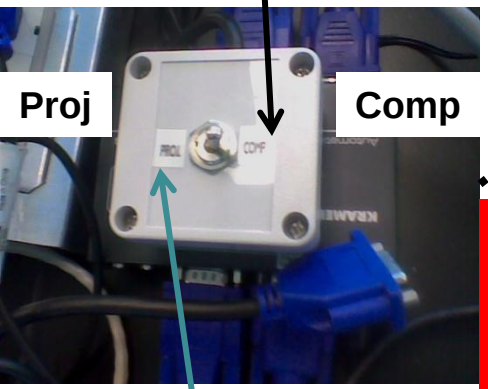
1. Press On/Off
2. Select COMP1 for computer
3. Select Video for document camera or laptop

Projection: BRDG Lab Rooms; Computer, Doc Camera, Scope



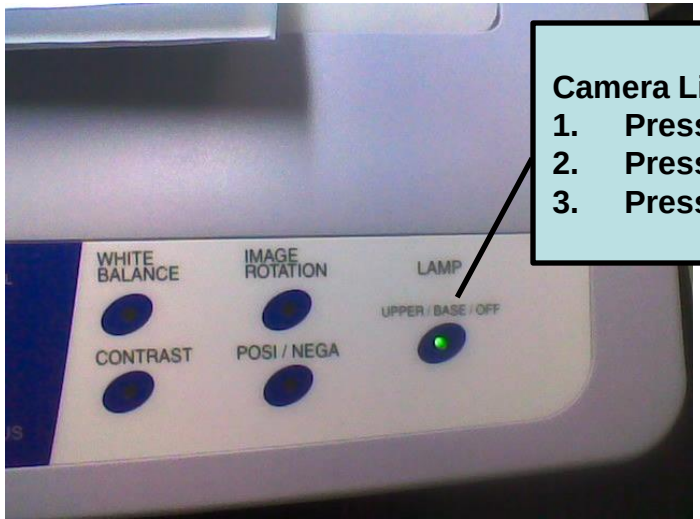






FIRST LOCATE SWITCH 2” x 2” white box
Source Toggle Switch (behind PC on desktop)
Comp= Computer, DVDs, Powerpoint, Web
Proj = Document Camera

Document Camera



Camera Light Controls:
1. **Press once for Upper Lights (document)**
2. **Press again for Base transparency light**
3. **Press again to turn off lights**

Projection: @BRDG, Epson Remote, PN 145258901

- Point remote toward ceiling projector and depress to turn projector on and off.
- Turn off projector when not in use

NOTE: At present, Page Up/Down do not function at BRDG Park, use Wireless Presenter/pointer on next slide

- Depress Pointer to activate
- Use pad/arrows to move pointer

-Requires 2 AAA batteries, install on rear panel.

Hotlink to Epson Remote User Manual …. Pdf (9mb)

Media Services, FV	Duae McFall , x 4501	DMcFall@stlcc.edu
Media Services, FV	Tim Croskey, x 4878	TCroskey@stlcc.edu

Projection: Wireless Presenter/Mouse, Laser Pointer

Kensington, K0941A with laser, required 2 AAA batteries

Press for Laser Pointer, use Caution when pointing
Laser will not operate unless the USB has been removed

Move Back in Slides

Move Forward in Slides

Blank/Black Screen

1. Install in PC USB port

-Requires 2 AAA batteries, install on rear panel. Note Laser will not light if batteries are low.

Projection: Walkie-Talkie, Motorola, Talkabout@ BRDG

Hotlink to Motorola Talkabout User Manaul….pdf

3. Press Musical note to send a call tone alert to others on the same channel

4. Press side button to talk, then release to listen

1. **Press MENU and hold >2 seconds to turn unit ON of OFF**
2. **(Optional) Press quickly to set other parameters: channel, ring tone, on/off timer**

Requires 3 AAA batteries

Projector: @BRDG, Epson 3LCD, w LAN connection

R127

ID Address:	**010.151.020.003**
Subnet Mask:	**255.255.255.000**
Gateway Addr:	**010.152.020.253**
MAC Addr:	**00.00.48.37.04.19**
IP Addr display:	**On or OFF**

Media Services, FV	Duae McFall , x 4501	DMcFall@stlcc.edu
Media Services, FV	Tim Croskey, x 4878	TCroskey@stlcc.edu

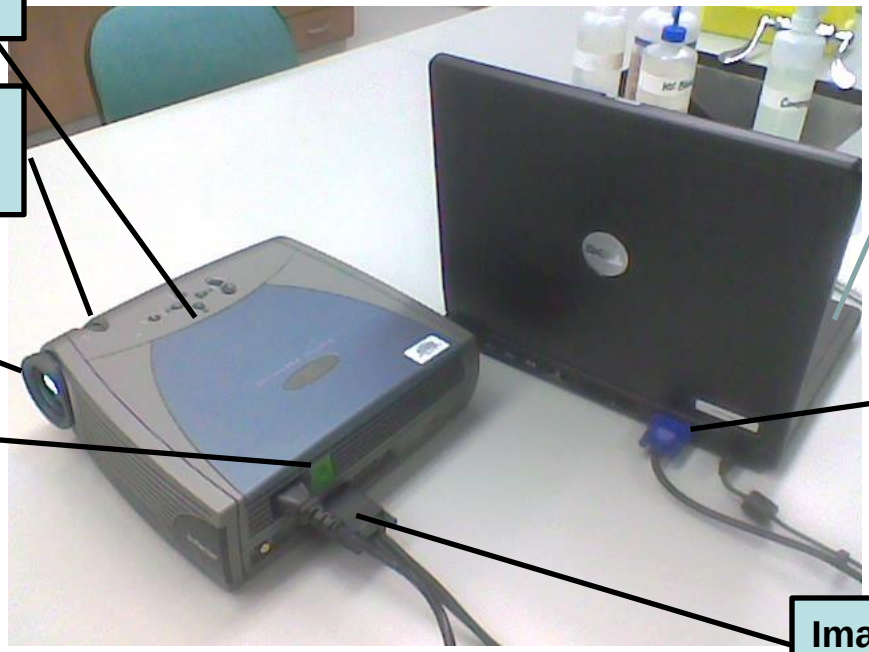
Projection: Portable Projector, InFocus LP 340

Source button: cycles from Video to Computers

Zoom: Wheel to zoom image in/out

Focus control

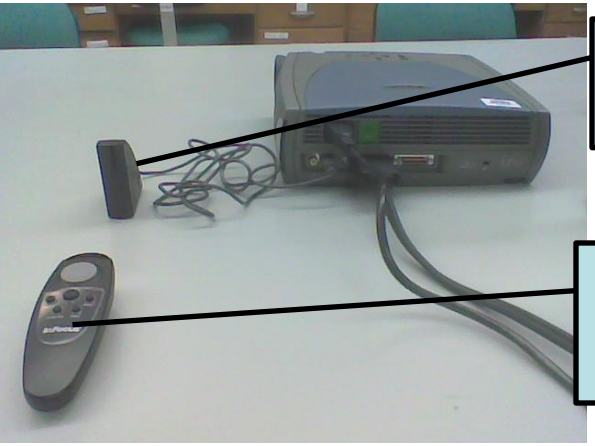
Green: On/Off projector



Laptop Keyboard: MUST Use Fn+F8 to share laptop display with Projector

Blue/Monitor connector to Projector

Image Source Connector to Laptop or other device



Remote IR Receiver Connection to Projector

Remote; Basic projector (not laptop) controls; Menu, Source, Standby

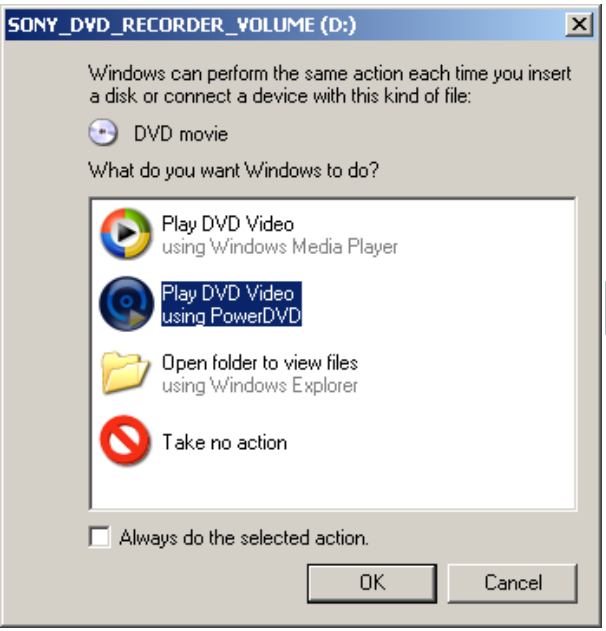
Projection: Play DVDs, BRDG, Instructor PC

1. Insert DVD in PC drive, then Select “Play DVD Video using PowerDVD” from the menu. At present, Windows Media Player is not recommended.

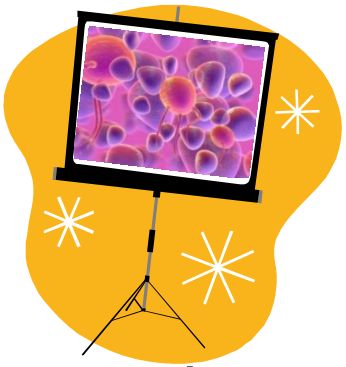
2. If Menu does not open, go To “My Computer”, select DVD Drive, “Play using PowerDVD”.

3. Adjust volume using the PCSettings menu, Speaker icon on the Windows lower toolbar, and using thumb wheel on the small 2” x 2” box along speaker line.

4. Use the “HOME” icon to stop, restart, resume, or skip to DVD sections.

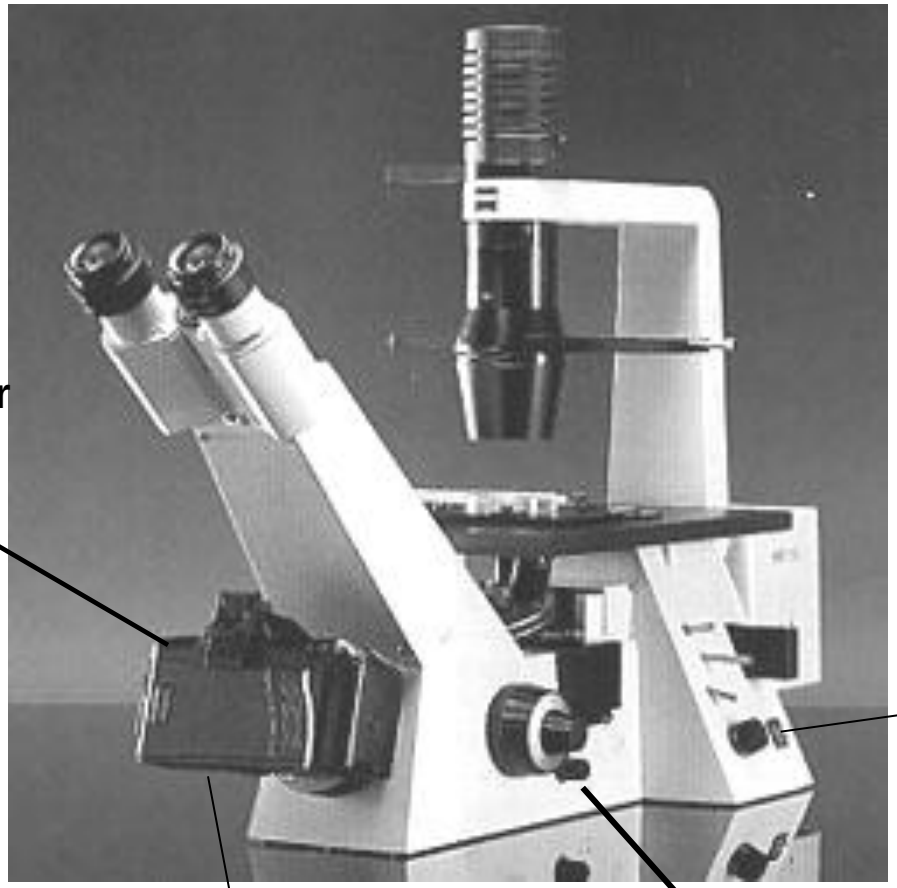


Projection : @BRDG, Axiovert 25, R124 / SLCC # 0097770



To Projector

To PC/Monitor



MTI-DAGE Camera Control Unit (CCU)

Off/On

Off/On W green indicator

Set Gain to "manual"

Camera

View Selector Knob
Eyepiece (clockwise)
Projection (ccw)

Microscopy: Scope, Capturing Images for PC and Projector

1. **Power on the Microscope, VCR/DVD player, Camera Control Unit (CCU), and the Projector (CCU is MTI –DAGE 2" x 5" box)**
   - **Make sure the Gain switch on the CCU is set to "Manual" to avoid camera attempts to rebalance brightness and thus dim your scope image.**
   - **The VCR/DVD player must be turned on and the channel set to "L2" to pass through video from the scope camera to the projector "video" setting.**
   - **The diaphragm/condenser tube should be pulled fully forward in a locked position.**
   - **Projector in SM238 is controlled by Epson remote, red power-on button. The "Video" button at the 6-9pm position gives control to the camera.**

2. **Turn the View Selector Knob on the scope (next to the main focus dials) clockwise until it hits stop at about 4pm position, this directs light toward the eyepieces**
   - **Focus on specimen, adjust condenser, and light controls to get desired image**

3. **Turn the View Selector Knob counterclockwise to stop position about 10am position, this directs light toward the camera. If the microscope/camera image does not appear, go to the next page of these instruction to check the wiring plan and/or call Media Services.**
4. **Capturing Images on the PC, start the Adobe Photoshop Program**
   - **Select "Start from Scratch", then "CANCEL" the next popup menu**
   - **Select "File", then "Import", then "D-link USB Video Capture Device"**
   - **Adjust brightness and other parameters using slide bar controls**
   - **Select "Capture Still Image", and verify capture in popup window**
   - **Select "File", then "Save", then enter a filename and format (usually .jpg)**
   - **Close/Exit the Adobe Photoshop application when finished with all captures**

Projection: @ FV, SM244, 245 , Nikon Labophot -2

Camera Control CMA-

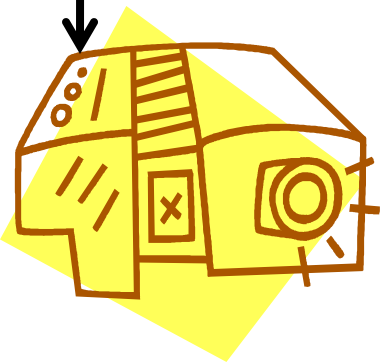
Turn “on” (green light) on bottom shelf of cart

VCR/DVD Player, Turn On And set to VCR mode

Turn dial on selector box To DVD/VCR setting.

Selector box

Epson remote used To power on projector



Camera 3CCD (details Slide #7)

View Selector Control Rod Eyepiece (push in) Camera (pull out)

Off/On

Projection: SM244 & SM245 Microscope to Screen

1. **Power on the Microscope**
2. **Power on the VCR/DVD device and set it to VCR mode.**
3. **Power on the Projector using the Epson remote**
4. **Power on the white Sony CMA-D2 1" x 6" box on the bottom shelf**
5. **Turn the dial on the small video selector control box to DVD/VCR settings**
6. **Focus the specimen in the microscope eyepiece as you would for normal observations. Note, this requires that the View Selector Rod (blue on diagram) is in the full "in" position to deflect light toward the eyepieces.**

- **Pull the View Selector Rod (blue box on diagram) on the right side of the microscope frame supporting the eyepiece to the "out" position. This deflects light from the eyepiece to the camera**
- **If you still see any light in the eyepieces, pull the View rod to the full out position.**
- **When finished with the camera/projector, push the View rod to the "in" position to resume using the eyepiece for adjustments or another specimen**

Note: If the projected view dims or adjust automatically to an unsatisfactory image, adjustments can be made on the camera Auto Exposure modes (see slide #7). A setting to manual mode is often effective.

Link to SM 244 and SM245 Computer/Projection Instructions (pdf)

Camera: Sony DXC-390P

Rear View, ports

- Automatic exposure modes

AE Level
- adjusts the standard brightness level up to +/- one F –stop in a lens iris>

AE Speed
- selectable AE (Auto Exposure) reaction speed to suit applications under varying lighting conditions

AE Area
- AE Area is a light metering system that includes 6 different modes (Multi, Slit, Mid, Manual, Large, Spot)

- Video outputs

RGB, Y/C, and Composite Video outputs

Side View, Controls

Projection : @ BRDG MTI-DAGE Camera Control Unit (CCU) and Camera

Cable from Camera connects to CCU on back panel
Via BNC connector to EXT-SYNC terminal

VBS output to Monitor or other device using BNC connector from VIDEO port on back panel of CCU

S-VIDEO output is also available

CCU, located on PC Or Nearby

On/Off w Green Indicator Light

Camera, mounted on Microscope

HotLink to DC-330 Camera Specs on a website

Projection: BRDG Lab Room Improvement Options

Problem: With larger class sizes, some students cannot see the screen clearly

Option #1 Canted Screen
- Better angle but,
- Costly to move 10' screen and projector mounted in ceiling near HVAC, Sprinklers, Elec
- Could drop below ceiling to reduce some cost but may not be "attractive"

Option #2 Centralize Location
- Good angle but blocks whiteboard, some blockage by Instructor PC
- Same costly ceiling move issues as #1

Option #3 Move to longitudinal end of classroom
- Good view angle for most, some blockage by students in first bench
- Same costly ceiling move issues as #1

Option #4 Add Flat Screen TV to supplement projection screen
- No costly ceiling and projector moves required
- Would require routing VGA/HDMI and adapters if needed
- Additional uses of Flat screen for announcements, special notices.