Instructor Testimonials

"Our welding department recently tried using a GoPro camera taped to a welding helmet in hopes to record a weldment. Needless to say, it was not of any quality that benefited our students. But using the WeldWatch EDU Tutoring Station® we were able to record different weldments using different techniques. This technology makes an incredible impact on the success of our welding students.

It is difficult to perform a hands-on welding demonstration for over 12 students in a tight space. Usually what happens is that maybe 3 students get close to the weld, and the rest will stay back and act as if they can see. Those who miss the first demonstration usually need a repeat demonstration. The WeldWatch EDU Tutoring Station® projects the welding process on a big screen in real time for the entire classroom to see at once. We also can record the instructor’s welds as well as the student’s welds to compare and critique.

It is very hard for a welding student to see how to manipulate a weld puddle in the beginning. Demonstrations are critical but often times the students cannot see the exact perspective the demonstrator can see. The WeldWatch EDU Tutoring Station® allows us to strategically record the physical movement and technique of the instructor. The students have access to the weld videos at all times which inevitably leads to improvement."

Coley Mclean
Schoolcraft College
Livonia, Michigan

"A student approached me for some one on one time to help her better understand what she was doing wrong when welding in the vertical position. I had her come to the lab early the next morning and placed her in front of the camera when running the joint. After finishing her weld, we played back the recorded footage and viewed it together. What she discovered was that her arc length was too long causing undercut and now understood how to correct it. The camera has given us another tool that we can use to help students succeed!"

Jeremy Dekker
Welding Instructor CWI/CWE
Lakeshore Technical College
Cleveland, Wisconsin
The Visible Welding WeldWatch Demo and Tutoring Station EDU package combines a zoom weld camera and software to create a powerful weld teaching accelerator tool.

Instructors often complain about giving demos that only a few students up-front can see. With the EDU package, your demos can be shown on-screen where all can see especially with an optional big-screen display.

With built-in digital recording, demos can be shown time and again to students. On-screen playback frees the instructor to narrate and engage the students instead of being hidden under a helmet. The live welds and recordings display the amps along the weld timeline.

WeldWatch EDU Software for Schools
- Integrated recording and playback
- Separate handling of temporary student test videos and protected instructor demos
- Self-maintaining recording of student welds, auto deletion of older weld videos

Benefits
- Live on screen views allow instructor demos to be seen by the whole class
- Video students welding for 1-on-1 coaching while watching close-up of bead and puddle
- Record good and bad weld technique for easy review by students
- 10x optical zoom allows close-ups of arc, electrode, puddle and joint during the weld

Applications
- Live demos on big-screen
- Record weld demonstrations for class
- Slow-motion playback and recall for review
- Share and trade demos with other schools
- 1-on-1 tutoring
  - Live coaching by instructor watching the close-up screen
  - Replay and review student’s weld with student
  - Give student specific items to practice
- Encourage student video making to “learn by teaching”

System includes WeldWatch Camera on swing arm, Surface Pro in locking case on swing arm, USB hub, set up lamp and software.

Specifications
- WeldWatch Camera
  - 140 dB dynamic range (10,000,000:1)
  - Built-in 10x optical zoom (4.9mm – 49mm)
  - Auto exposure
  - Auto focus
  - Automatic iris
  - Full color, resolutions up to 1280 x 1040
  - Up to 30 fps (frames-per-second) at 640 x 480
  - All digital processing, no special filters required
  - Flexible camera arm and swivel mounts allow shots of all welding angles – even overhead

- PC Hardware
  - Locking steel case for PC and keyboard
  - 12” touch-screen with HD HDMI output for optional giant LCD TV demo screen
  - Built-in disk stores up to 1 hour of demo videos
  - USB port for expansion hard drive

- Recording
  - Arc-triggered auto-record
  - Record 5 sec before to 5 sec after arc
  - Flexible playback: fast, slow, single step, forwards or backwards
  - Export to standard video files for viewing or email
  - Capture high-quality JPEG stills

Screen shot of WeldWatch interface.