Record and view the arc, electrode, puddle, joint and surrounding base material before, during and after the welding process.

- AVI video files or full Dynamic-Range original
- Play, pause or single-step through frames
- Capture still images for documentation
The UDR-V2014-C video system is specially designed for live viewing and recording in the blinding light of arc welding. With a dynamic-range of over 10,000,000:1, the camera can capture both the bright arc and adjacent metal features. Video can be viewed live, digitally recorded or capture still images at the full dynamic range for later analysis or archiving.

Ultra-Dynamic-Range (UDR) is the key to effective welding viewing images. A welding arc can be a ten million times brighter than the metal below. This is a thousand times the range of high-end industrial cameras. Even specialty high-dynamic-range (HDR) cameras only reach 50,000:1 – far short of the task. To image arc welding you need UDR at 10,000,000:1 (140dB).

The Visible Welding UDR-V2014-C reaches UDR levels by combining an HDR camera with powerful digital signal processing. Each amplifies the range of the other resulting in a dynamic-range far greater than either can reach alone.

This processing requires much more computing power than can fit inside a camera so the UDR-V2014-C requires a powerful computer to do the job. In addition to the image processing, the computer controls the camera and forms the hub of the UDR-V2014-C, providing a screen, keyboard and disk storage for HDR video.

**UDR-V2014-C Video System Features**

- View and record arc welding without specialized filters or “spots”
- For development & setup of weld processes (TIG, MIG, Laser)
- See through high glare for inspection or machine vision
- Digital from end-to-end – no conversion losses
- Records full UDR (Ultra-Dynamic-Range) – over 10,000,000:1
- 140 dB dynamic range
- Store up to 1 hour of UDR compressed AVI video
- Play, pause or single-step through frames
- Save standard JPEG stills or AVI video files, suitable for e-mail
- UDR-V2014-C system is turnkey
- Software is sold separately from laptop
- Select a USB or GigE Camera
- Picture Flip and Digital Zoom
- Standard C-Mount
- Digital Image Processing:
  - Digital Continuous zoom 1x – 10x
  - Edge and detail Sharpening
  - Rotate, flip
- View and record arc welding without specialized filters.
- View and record the electrode, arc, puddle and joint before and during the weld
- Perfect for development and setup of welding processes
- See through high glare for inspection or machine vision

**Models Available**

- EM18330 - UDR-V2014-C GigE Version
- EM18483 - UDR-V2014-C USB Version

**UDR-V2014-C Camera Lenses**

- EM15666 - 35mm Fujinon Lens with Spatter Shield
- EM64131 - 50mm Fujinon Lens with Spatter Shield