

V2000-G

Ultra-Dynamic-Range™

GigE Ethernet

Welding Camera



Overview

The V2000-G is a compact C-mount video welding camera, specially designed for live viewing of arc welding. In addition, thanks to the included WeldWatch software, video and stills can be digitally recorded for analysis, email or archiving.

With a dynamic-range of over 10,000,000:1, the camera can capture both arc and metal simultaneously. See the arc, electrode, puddle and joint before, during and after the weld.

Ultra-Dynamic-Range (UDR) is the key to effective welding images. A welding arc can be a million times brighter than the metal, far exceeding even high-end industrial and specialty cameras.

The **V2000-G** reaches UDR levels thanks to our specially modified High Dynamic Range (HDR) log sensor which gives over 10x the range of the stock HDR sensor.

Combined with powerful digital signal processing, the hardware and software complements each other resulting in a quality and dynamic-range greater than any weld camera on the market.

All this is accomplished without special filters or optical tricks, allowing the arc to be anywhere – not just in the center.

Features

Camera

- Full Color
- GigE Ethernet connection
- Hi-Def Resolutions up to 1280 x 1024
- Filter-less 140 dB dynamic range (10,000,000:1) allows arc anywhere in the frame
- Use any standard C-Mount lens
- Full 30 fps (frames-per-second) at 640x480

Factory ready

- Sturdy Aluminum case
- Powered by 12v DC
- Compact 2" x 2" x 2" (50mm x 50mm x 50mm)
- Lightweight 6.2 oz. (175 g)

WeldWatch PC software (provided with cameras)

- Low Latency Digital Image Processing
- Proprietary Expanded Log rendering
- Integrated Recording and Playback
- Rotate, flip the image
- Digital zoom 1x – 10x



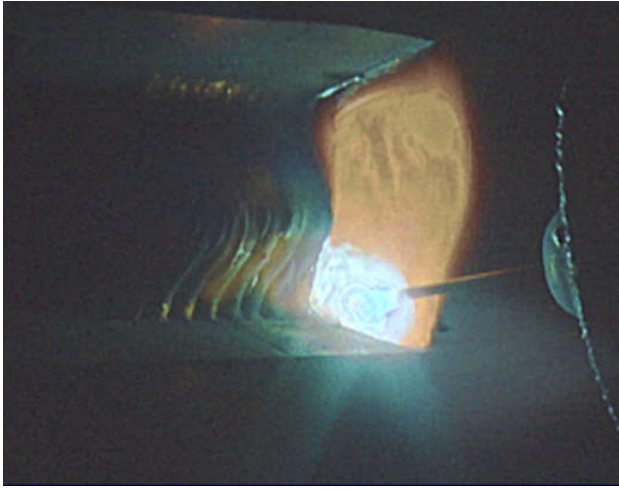
**V2000-G Color GigE Ethernet Camera
with C-Mount Lens (lens not included)**



Actual V2000-G Image – TIG on Aluminum

Applications

- Monitor weld or cladding machines away from toxic smoke and danger to improve safety
- Develop and debug new welding processes
- Record weld processes for quality management



V2000-G on high-current MIG welding

Technical Details

Video Output

The video output format is determined by the PC running the WeldWatch software. This can be VGA, DVI or HDMI – allowing a wide range of standard monitors from 6" to 60"

Recording

- Standard MPEG-4 files for viewing or email
- Flexible playback: fast, slow, single step, forwards or backwards
- Exclusive auto-record triggered by arc
 - Start record 2 sec before arc
 - Stop record 2 sec after arc
- Also save high-quality JPEG still images

PC requirements:

- Windows 10 or 11
- Intel I5 or I7 processor
- 4 GB of RAM