The XVC-O is intended for monitoring all open arc welding processes such as, MIG, MAG, TIG, Plasma, Laser or Stick. Combining sophisticated sensor technology with advanced electronics to provide high contrast, wide dynamic range images, the XVC-O View Camera delivers a clear view of the brightest features of a welding torch tip while still being able to see the weld pool and surrounding darker background. The XVC-O also provides the ability to record, store and playback vital welding processes off line for quality assurance monitoring and process verification.

Workforce demands, government regulations, changing business practices, and increasing environmental awareness are driving the manufacturing environment to be quieter, cleaner, healthier, safer and “friendlier” for workers. The XVC-O viewing camera allows the welding process to be viewed safely from the ground level and assists the operator during setup to set the wire length and torch position, as well as make corrective adjustments to the welding process “on the fly”, increasing productivity with more “arc on” time, and less operator machine stops.
Benefits
Reduced set up time - Better images reduce the time required to set up the weld tool and materials
Operational productivity - Allows operator to make corrective adjustments to the welding process "on the fly"
Run time productivity - Reduces scrap and rework, mitigating profit loss from weld failures in the field
Troubleshooting - Provides the ability to verify that the weld process is functioning correctly and identifies the source of any potential problems
Health and safety - Provides the means to remove the operator from the direct weld area, providing a quieter, cleaner, healthier and safer work environment
Video recording - Provides ability to record, store and playback vital welding processes off line for quality assurance monitoring and process verification

Specifications

**HMI Console**
- **Dimensions:** 484mm (W) x 212mm (D) x 340mm (H)
- **Weight:** 16 Kg
- **Input Power:** 100 - 240 VAC, 2 A, 50 - 60 Hz
- **Display:** 15” Flat panel LCD touch screen
- **Computer:** PC running Windows® embedded operating system
- **Environmental Rating:** IP54 / NEMA 13
- **Hard Disk Storage:** Able to hold up to 14.5 hours of recorded video
- **Cooling:** Dual continuous fans
- **Other Ports:** USB, Ethernet, video output (optional)
- **Cameras:** Up to 2

**Camera Module**
- **Dimensions:** 51 x 51 x 132 mm (short)
  - Approx. 51 x 51 x 202 mm (extended)
- **Weight:** 0.500 Kg (short) / 0.650 Kg (extended)
- **Environmental Rating:** IP67 / NEMA 6
- **Sensor Resolution:** Ultra wide dynamic range (140db+)
- **Sensor:** 1280 (h) x 1024 (v)
- **Remote Controls:** Gain, motorized focus (optional), contrast enhancement
- **Auxiliary Lighting:** Solid state, 3x high powered LEDs, controlled by weld-on sensor
- **Mounting:** T-slot, compatible with M5 or 10-32 screws
- **Front Protection:** Removable protective glass cover
- **Cable Lengths:** 10 / 20 / 30 / 40 m

**System Options**
- Window de-dusting
- Camera air cooling
- Digital I/O module
- Camera and console mounting options
- Active camera/ HMI console air cooling
- High volume video drive

**Software Functions**
- Crosshairs and target grid
- Automatic / manual light control
- Record and playback video
- Image rotation (0°, 90°, 180°, 270°)
- Contrast / brightness adjust
- Image sharpening
- Up to 100X digital image zoom
- Image mirroring

**Environmental Conditions**
- Operating temp: < 45°C (113°F)
- Storage temp: -20 to 60°C (-4 to 140°F)