ArcView camera system for visual monitoring of welding processes with extensive features. The pneumatic controllable protective glass allows direct arc viewing, camera settings like focus and iris can be set up individually at the control unit with a 15° display. Additionally the control unit offers optional recording to USB-volumes as well as live viewing via network connection (intranet/internet).
**ARCVIEW CAMERA MODULE**

**FEATURES**

/ Available with focal distance F15 and F24 according to requirements
/ Bright video image in normal operation and welding operation (with pneumatic active protective glass)
/ Robust aluminium housing
/ Compact design
/ Connection line up to 50 m (1968.5 in)
/ Compatible with water chiller chilly

**ARCVIEW CAMERA MODULE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>CCD 1/4&quot; colour - PAL</td>
</tr>
<tr>
<td>Resolution</td>
<td>450 TVL</td>
</tr>
<tr>
<td>Pneumatic filter (air or gas)</td>
<td>Pressure: 4 - 6 bar (58 - 87 psi)</td>
</tr>
<tr>
<td>Cleaning system (air or gas)</td>
<td>Pneumatic hose: 4 mm (0.16 in)</td>
</tr>
<tr>
<td>Max. ambient temperature (camera)</td>
<td>50 °C (122 °F) without cooling</td>
</tr>
<tr>
<td>- with air or gas cooling 3 bar</td>
<td>50 - 80 °C (122 - 176 °F)</td>
</tr>
<tr>
<td>- with water cooling 25° flow 1.2 l/min</td>
<td>80 - 150 °C (176 - 302 °F)</td>
</tr>
<tr>
<td>Dimensions camera d/w/h</td>
<td>50x30x112 mm (2x1.2x4.4 in)</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.4 kg (0.9 lb)</td>
</tr>
</tbody>
</table>

**HINGE STAND (OPTIONAL)**

/ Flexible hinge stand for rapid camera positioning
/ All 3 joints can be clamped via star knob

**LIGHT SOURCE (OPTIONAL)**

/ Halogen light source with adjustable bracket for variable positioning

**FOCAL DISTANCE 15 MM/24 MM (0.6/0.9 IN)**

/ F15: 50 - 300 mm (2 - 11.8 in) distance to motive (only for spatter-free processes – TIG/PLASMA)
/ F24: 100 - 500 mm (3.9 - 19.7 in) distance to motive

**CLEANING**

/ Protection against dirt and smoke due to permanent air flow
/ For perfect visibility

**COOLING**

/ Prepared for air/gas/water cooling
/ Allows operation at max. 150 °C (302 °F) ambient temperature

**PROTECTIVE GLASS**

/ Activate with pneumatic for welding operation
**CONTROL UNIT**

**FEATURES**
- Available in SINGLE or DUAL type (1 - 2 camera modules)
- Robust housing
- 15" colour display with 3 mm (0.12 in) protection glass
- Focus and brightness manual adjustable for sharp and high contrast images
- Adjustable tilt angle for more ease of use
- Stand console with wheels

**ARCVIEW CONTROL UNIT**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>230 VAC/3.8 A</td>
</tr>
<tr>
<td>Protection hose</td>
<td>5 m (19.69 in)</td>
</tr>
<tr>
<td>Memory requirement per minute</td>
<td>ca. 3.8 MB</td>
</tr>
<tr>
<td>Dimensions d/w/h</td>
<td>480x390x1520 mm (18.9x23.2x59.8 in)</td>
</tr>
<tr>
<td>Net weight</td>
<td>41 kg (90.4 lb)</td>
</tr>
</tbody>
</table>

**DUAL TYPE**
- Image changeable: camera 1, camera 2 or split-screen (both cameras)
- Both camera modules are separately adjustable (aperture, focus, cross line)
- Recorder included

**RECORD & REMOTE CONTROL (OPTIONAL)**
- USB-port for recording and playing videos
- With option network port, live-stream is possible
- Remote control for comfortable recorder operation

**NETWORK PORT (OPTIONAL)**
- Internet and company network integration

**CROSS LINE (OPTIONAL)**
- Optimal for seam tracking
- Horizontal and vertical adjustable with variable contrast
APPLICATIONS

ArcView camera system allows inspection and documentation of different welding factors. The result of ArcView integration is higher quality and productivity in working processes. Video recordings are excellently suitable for quality assessment or training material.

The following images demonstrate different application examples.

**POSITIONING**

/ The optional cross line allows easy and exact torch positioning

**PROCESS CONTROL**

/ The condition of electrode/weld pool/arc as well as the feeding of the filler material can be checked while welding

/ With cross line, damaged electrodes can be exchanged easily at the same position

**WELDING SEAM INSPECTION**

/ The quality of the welding seam can be checked during welding process

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