

Keep a Live Eye on Automated Welding

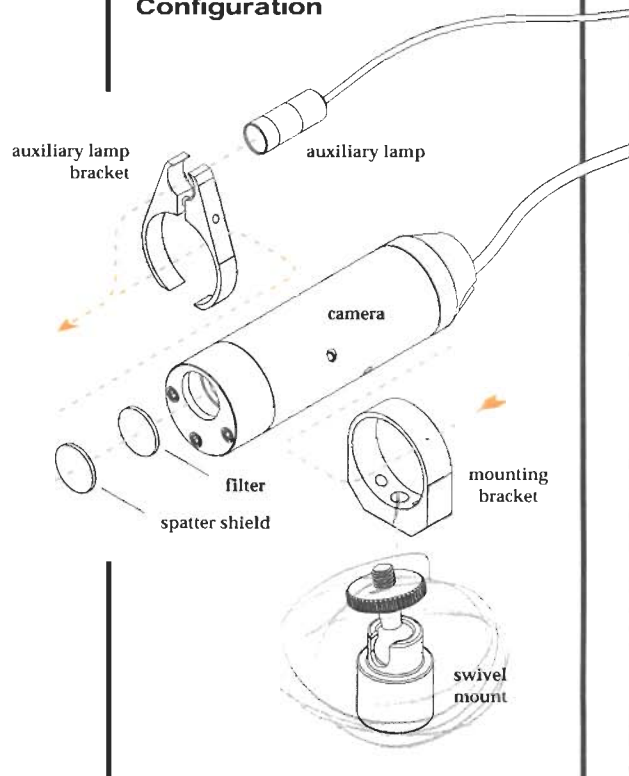
WeldView 1125™

Save resources and time by verifying the quality of automated welds in real time with iShot Imaging's WeldView 1125. This modular weld-monitoring camera can be configured to obtain high-resolution video footage of virtually any welding process.

The thick, anodized aluminum body of the WeldView 1125 attenuates EMI and weld fields, while an integral spatter shield protects precision optical components from debris. Interchangeable, stackable filters compensate for a wide range of ambient and process lighting conditions. Remote control of focus and iris permits on-the-fly tuning to correct for changing process conditions. Optional air or water cooling protects sensitive internal components from high heat.



Sample Configuration



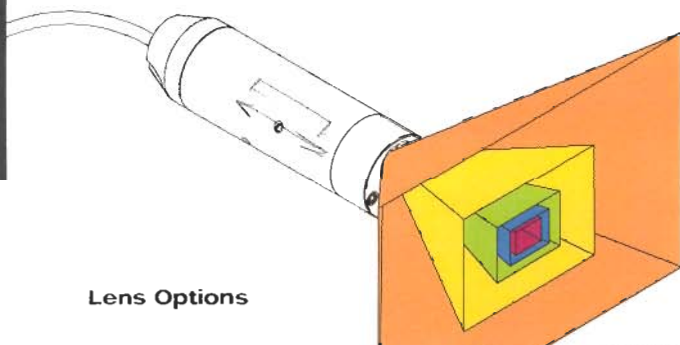
Features & Benefits

- Focus and iris adjust remotely, adapting to changing weld conditions.
- Optional air/water cooling protects internal components from high-heat.
- Body, window, and cable tolerate weld spatter, weld fields, and EMI.
- Interchangeable lenses adapt camera to virtually any combination of target size and distance.
- Interchangeable filters permit optimum viewing of virtually any welding process.
- 1/2" IT CCD imager delivers resolution of 470-plus TV lines.
- Flexible mounting accessories permit easy attachment to online machinery and welding robots.

iShot

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Lens Options

focal length		max aperture ratio	FOV (vert. x hor.)	object distance
36 mm		1:4.5	7.7 x 10.2 deg	520 mm - infinity
24 mm		1:3.1	11.5 x 15.3 deg	250 mm - infinity
15 mm		1:2.0	18.4 x 24.4 deg	90 mm - infinity
7.5 mm		1:1.6	36.4 x 48.2 deg	20 mm - infinity
4 mm		1:2.0	69.1 x 92.1 deg	10 mm - infinity

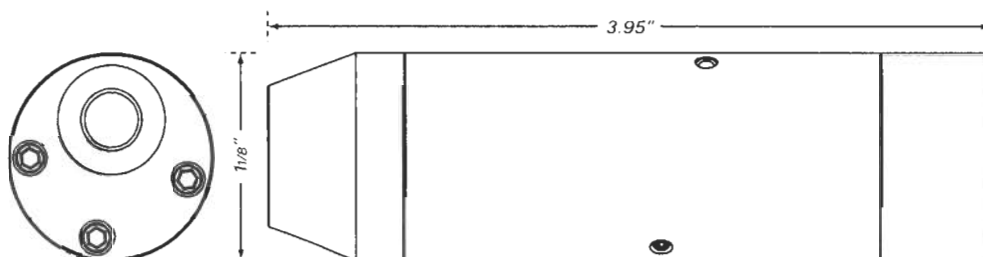
Filter Options

polarizing filter • spatter shield • weld filters (nos. 8, 9, 10, and 12)
neutral density filter • UV cut filter

Specifications

(camera head)	
image sensor	1/2" IT CCD
effective pixels	hor.: 768 pixels vert.: 494 pixels
effective image area	hor.: 6.54 mm vert.: 4.89 mm
resolution (htv)	>470 lines
min. illumination	5 lux (F1.6, 3000K)
(control unit)	
scanning system	2:1 interlace
scan frequency	hor.: 15.734 kHz vert.: 59.94 Hz
S/N ratio	46 dB or greater
video output	VBS 1.0 V (p-p); NTSC via BNC connector; Y/C via S terminal
output impedance	75 ohms, unbalanced
external sync	input: VBS 1.0 V (p-p); NTSC via BNC connector; 75 ohms, unbalanced adjustment function: subcarrier phase, H phase
white balance	automatic/set/manual
gain switch (AGC)	sens up (+6 dB)/on/off
electronic shutter	auto, 1/60 sec, 1/100 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec, 1/4000 sec, 1/10,000 sec, synchronized scan
gain switch (AGC)	sens up (+6 dB)/on/off

Dimensions (shown actual size)



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