

UNIBLITZ

AI25 and AIC10

1.5 - 25.0 mm Auto Iris and Iris Controller



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Uniblitz® AI25 and AIC10

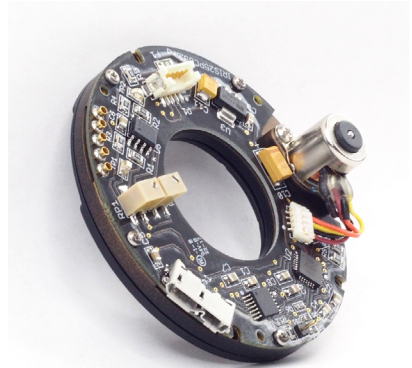
1.5 - 25.0 mm Auto Iris and Iris Controller

Overview

The Uniblitz AI25 is a motorized/auto iris diaphragm that allows for the remote control of a variable 25mm aperture.

This electronically-controlled aperture is ideal for remote light attenuation or depth-of-field control. The iris's aperture closes down to 1.5mm, and the optional shutter attachment allows users to fully close the aperture.

The AIC10 Iris Controller features an intuitive button array and digital user interface, allowing it to operate the iris via a modified serial command protocol (which can be provided to manufacturers looking to use the AI25 in OEM applications). When



equipped, the AIC10 will also operate the shutter attachment independently from the iris. The shutter's electronic sync allows the AIC10 to indicate the shutter's state.

Shown right: AI25 w/o shutter attachment (top); AI25 w/ housing (bottom)



AI25 Features

- **Operation Range:**
1.5 - 25.0 mm
- **Closing speed:**
0.22 seconds
- Low-profile form-factor
- Optional high speed shutter attachment
- **RoHS Compliant**

AIC10 Features

- Intuitive digital user interface
- Optional shutter control (Iris requires shutter attachment)
- RS232 or TTL level signal control
- **RoHS Compliant**

AI25 Technical Specifications

Weight (Un-housed)	1.31 oz (37.20 g)
Weight (W/ Shutter)	2.00 oz (56.80 g)
Weight (Housed W/ Shutter)	5.82 oz (164.90 g)
Operating Temp. (°C)	-10 - +65
Number of Iris Blades	7

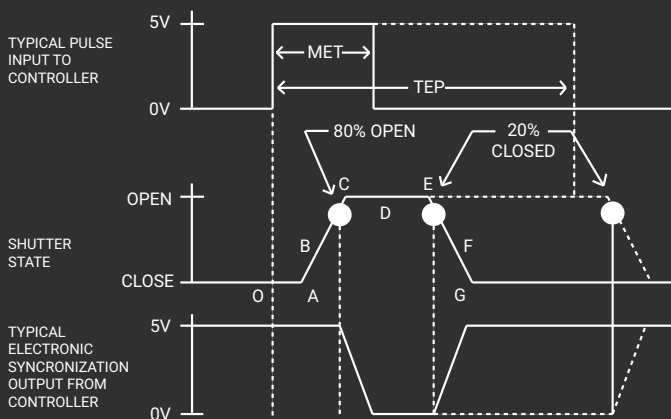
Number of Steps	54
Resolution (mm/step)	0.44 ± 0.06
Operation Range (mm)	1.5 - 25.0
Closing speed (min to max)	0.22 seconds

All specifications are preliminary and subject to change.

AI25 2 3 4		Ex: AI25S6T	
1 Iris Series:		2 Shutter Attachment:	
• AI25		• N: Omitted	
		• S: Included	
3 Housing:		4 Blade Coating: ¹	
• 1: Un-housed		• T: Low Energy (Teflon®)	
• 6: Housed			

¹ Other blade options may be available in the future.

Shutter Timing *(when equipped)*

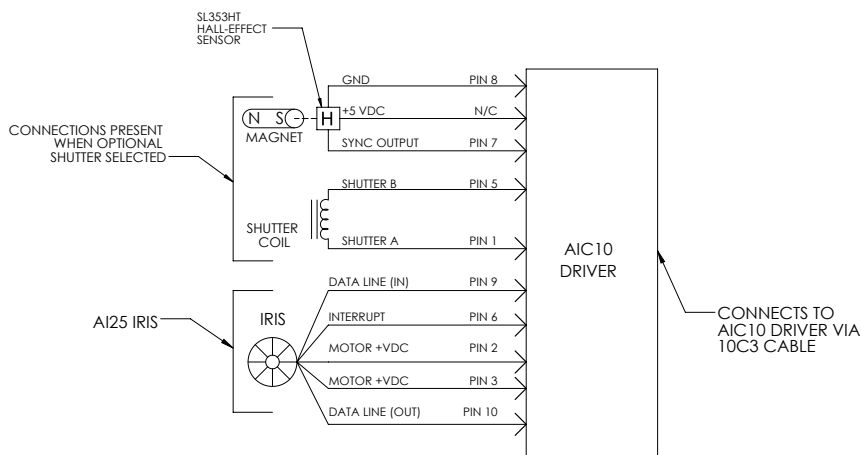


DSS25B (w/ AIC10 and Teflon® coated blades)

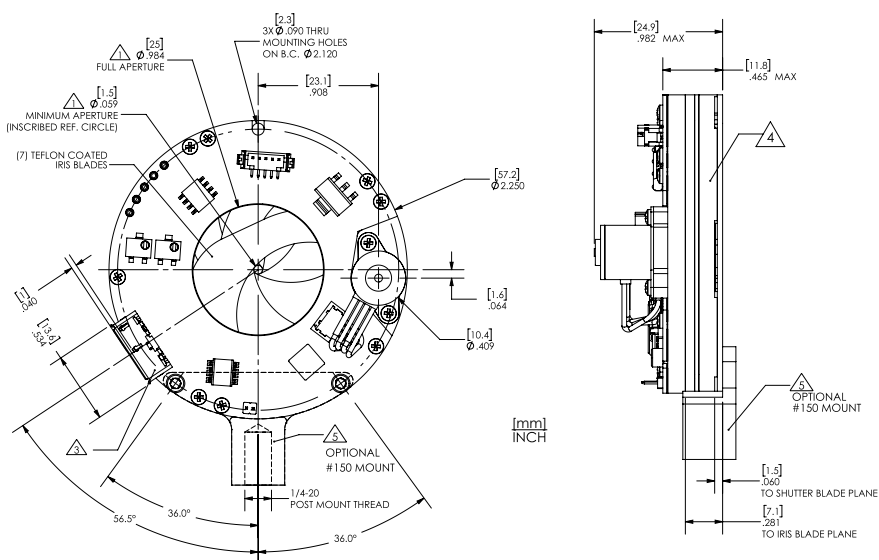
Time (msec.)

O - A	Delay time on opening after current applied	13.2
A - C	Transfer time on opening	12.6
O - C	Total opening time	25.8
C - E	Min. dwell time with min. input pulse	23.2
B - F	Min. equivalent exp. time	36.6
D - E	Delay time on closing after current applied	14.0
E - G	Transfer time on closing	14.0
A - G	Total window time	50.8
MET	Min. exposure time	35.0
TEP	Typical exposure pulse	>35.0

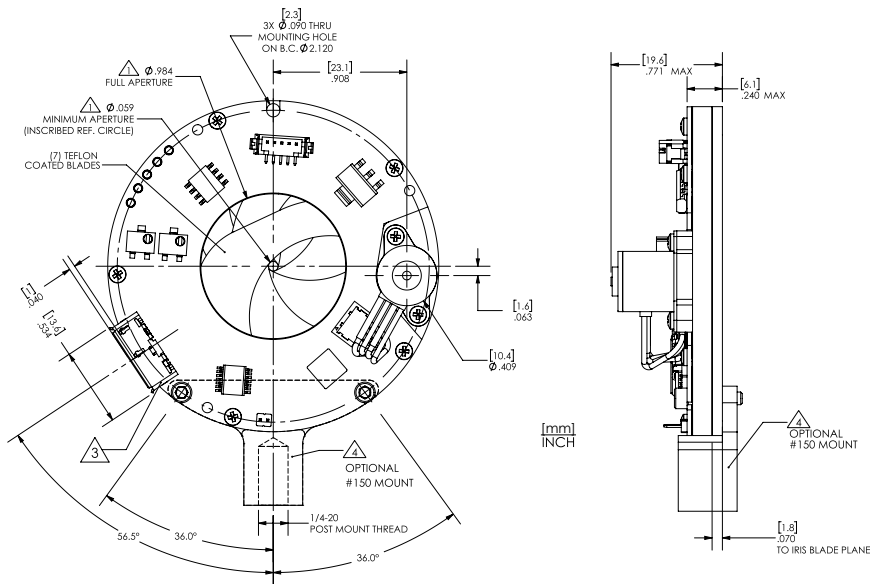
AI25 Pin Connections



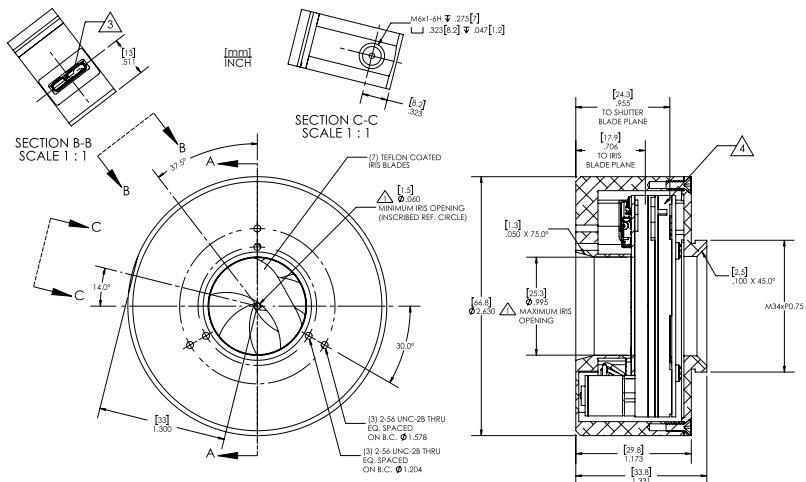
AI25S1T *(Un-housed - w/ Shutter Attachment)*



AI25N1T (Un-housed)



AI25S6T *(Housed - w/ Shutter Attachment)*



AIC10 Specifications



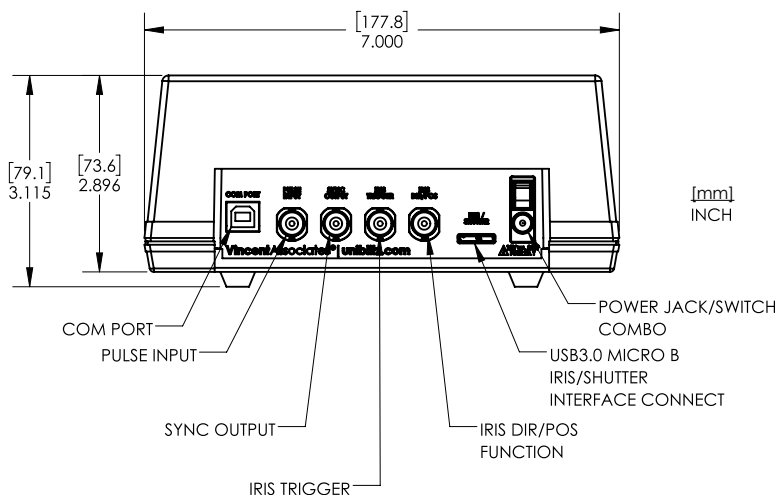
- | | |
|-----------------------------|---------------------------------|
| ❶ Power LED | ❷ Shutter / Sync Active LED |
| ❸ Display (Backlit LCD) | ❹ Shutter Activation |
| ❺ Iris - Full Open | ❻ Iris - Full Close |
| ❼ Increase Step / Menu Up | ❽ Select / Accept |
| ❾ Menu | ❿ Saved Location 1 |
| ⓫ Iris Input Mode | ⓬ Local / Remote Mode Selection |
| ⓭ Decrease Step / Menu Down | ⓮ Calibrate Iris |
| ⓯ Back / Return | ⓰ Saved Location 2 |

What's Included

- AIC10 Iris Controller
- Manual (included on flash drive)
- 10C3 iris/shutter interconnect cable (3.0 m) - For interfacing AIC10 with iris/shutter
- USB-AB Cable (1.0 m) - For interfacing with computer
- PS12 Power Supply w/ US & Euro line cords



AIC10 Rear Panel



Contact Us

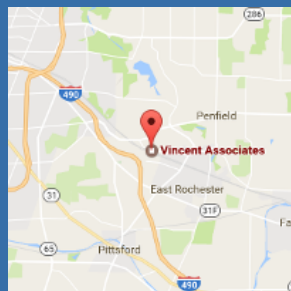
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Notes

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