



HD Probe Lens System

Manual and Depth of Field Charts



For additional technical support, please call 310-453-4866

www.innovision-optics.com

This manual is available for download from the website.

HD Probe Lens System

Hints, Tips and Notes

Tighten the taking lens fully against the module so that the O-Ring properly seals.

Failure to fully tighten the lenses will cause a loss of infinity focus.

When used underwater, it is important that all O-Rings are installed and they should be lightly greased to prevent them from “bunching up” while the modules are tightened together.

The lens system is waterproof with all modules to within 1” of the focus ring. Newer Probe models have a red ring around the relay at this point and are marked “Do not submerge beyond this point”

Do not let water into the focus and aperture rings. There are no seals there so water can enter the relay and damage the whole lens system.

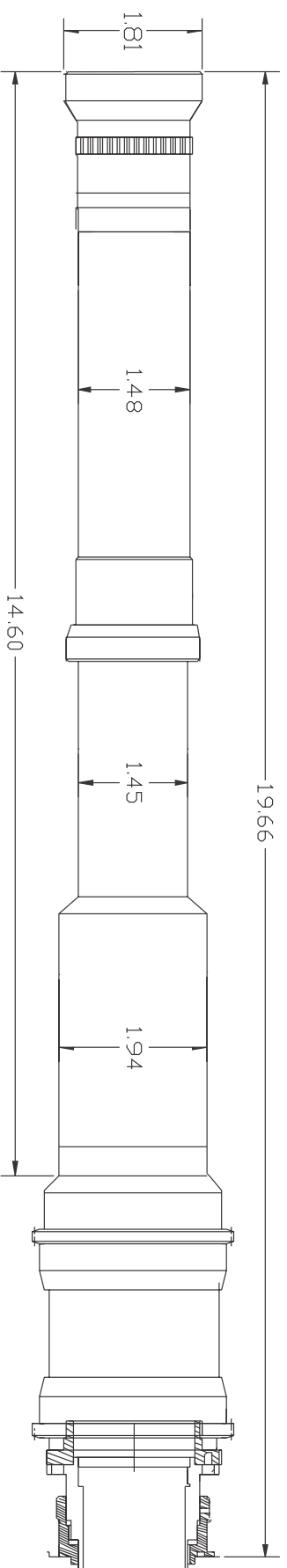
When using the Close Focus Shims, the following instructions apply:

1. Remove the O-Ring and replace it with the close focus shim of your choice.
 2. Caution: The lens system will not be waterproof when using close focus shims
 3. The use of shims will cause infinity focus to be lost to a varying degree.
 4. The use of shims will cause depth of field to be narrowed. (this can be used for dramatic effect as well)
 5. The thicker shims have more close focus effect and narrow DOF effect than the thinner shims.
 6. Start testing with the thinnest shim and work up to the thicker shims.
 7. The engraved numbers correlate to the shim thickness, for example, the shim marked 30 is 0.030” thick.
 8. Only use 1 shim at a time, it is possible to have a lens fall off the barrel if you stack 2 or more shims.
- The thickest shim available is the maximum amount you can extend the lens while still having enough threads to hold the lens in place.

Caution: The lens system is not waterproof when using close focus shims

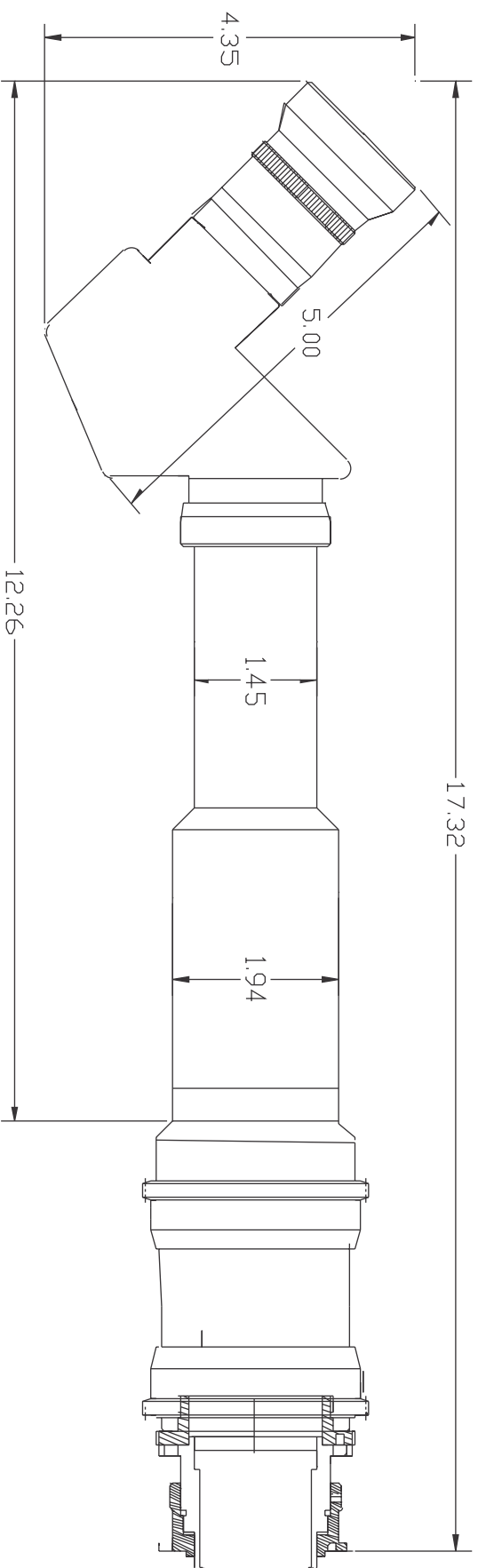
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Direct View Configuration



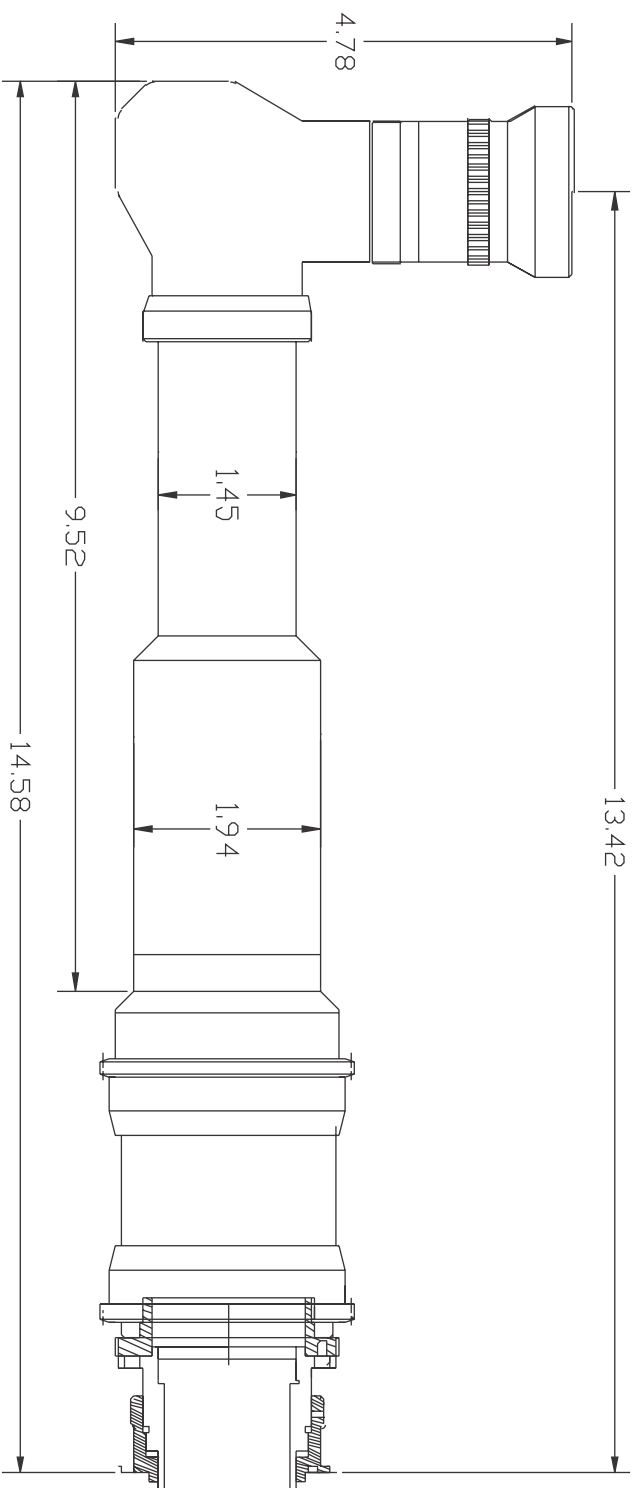
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45 Degree View Configuration



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90 Degree View Configuration



HD Probe Lens Minimum Focus Chart

Lens	Minimum Focus	T-Stop
5mm	0.5 Inch	@ T2.8
8mm	1.50 Inch	@ T2.8
12mm	4.0 Inches	@ T2.8
17mm	8.0 Inches	@ T2.8
23mm	13.0 Inches	@ T2.8

HD Probe Lens Coverage Chart

Lens	Coverage	T-Stop
5mm	All HD & Video Formats	@ T22
8mm	All HD & Video Formats	@ T22
12mm	All HD & Video Formats	@ T22
17mm	All HD & Video Formats	@ T22

