

# OEM/Designer Handbook:

## PROXIMITY SERIES:

### InfiniStix™



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## InfiniStix™ Video Lenses

(Patent pending)

Compatible with all C-mount and CS-mount\* video cameras, InfiniStix are Infinity's smallest Proximity Series application-specific video lenses. There are nine InfiniStix in all. Each provides extraordinary image quality at a fixed magnification and field of view. InfiniStix are the simple but effective means to solve some of your most difficult or challenging video imaging problems. Constructed entirely from optical glass and 6061 aluminum, InfiniStix are built to withstand industrial environments. Yet, except for their mounting flanges, InfiniStix are only 15mm in diameter, allowing easy access in restricted areas.

Simply choose the appropriate InfiniStix lens in steps ranging from 0.5x up to 3x, position it at the specified working distance (from 18mm, 44mm, 68mm or 94mm)—and you will automatically obtain the specified magnification and field of view. There's no guesswork or fiddling with extension tubes, etc. Superb imagery really is that easy—every time.

All InfiniStix can be amplified 2x by an optional DL Doubler Tube. Although the DL Tube adds 12mm to system length, it maintains the original working distance. In addition, 21mm fiber optic ring lights can be mounted on the InfiniStix by using a simple step-up adapter.

\*CS-mount requires a 5mm spacer.

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InfiniStix are offered in the following configurations:

### Magnification Options

Working Distance	1.00x Factor Tube	1.50x Factor Tube	2.00x Factor Tube
<b>18mm</b>	2.00x	3.00x	—
<b>44mm</b>	1.00x	1.50x	—
<b>68mm</b>	0.66x	1.00x	—
<b>94mm</b>	0.50x	0.75x	1.00x

**Horizontal Fields of View for 1/2-in. Video Sensors**

<b>Working Distance</b>	<b>1.00x Factor Tube</b>	<b>1.50x Factor Tube</b>	<b>2.00x Factor Tube</b>
<b>18mm</b>	3.20mm	2.13mm	—
<b>44mm</b>	6.40mm	4.26mm	—
<b>68mm</b>	9.76mm	6.40mm	—
<b>94mm</b>	12.80mm	8.53mm	6.40mm

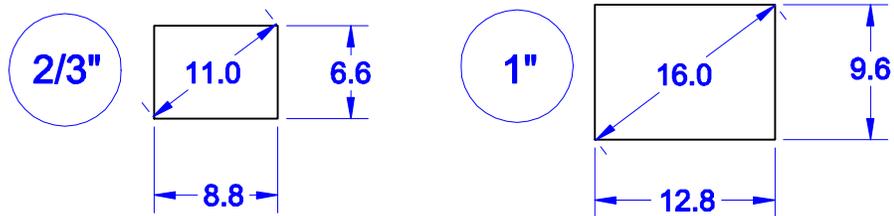
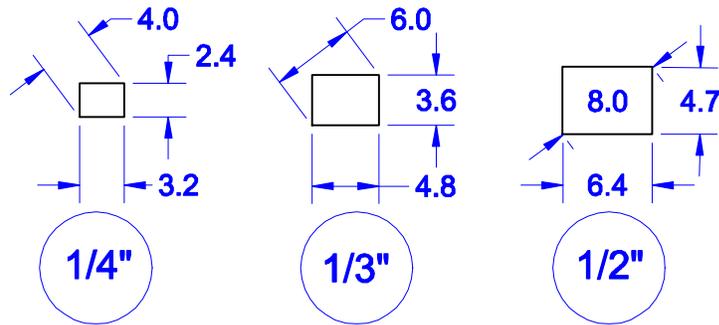
**Horizontal Fields of View for 1/3-in. Video Sensors**

<b>Working Distance</b>	<b>1.00x Factor Tube</b>	<b>1.50x Factor Tube</b>	<b>2.00x Factor Tube</b>
<b>18mm</b>	2.40mm	1.60mm	—
<b>44mm</b>	4.80mm	3.20mm	—
<b>68mm</b>	7.27mm	4.80mm	—
<b>94mm</b>	9.60mm	6.40mm	4.80mm

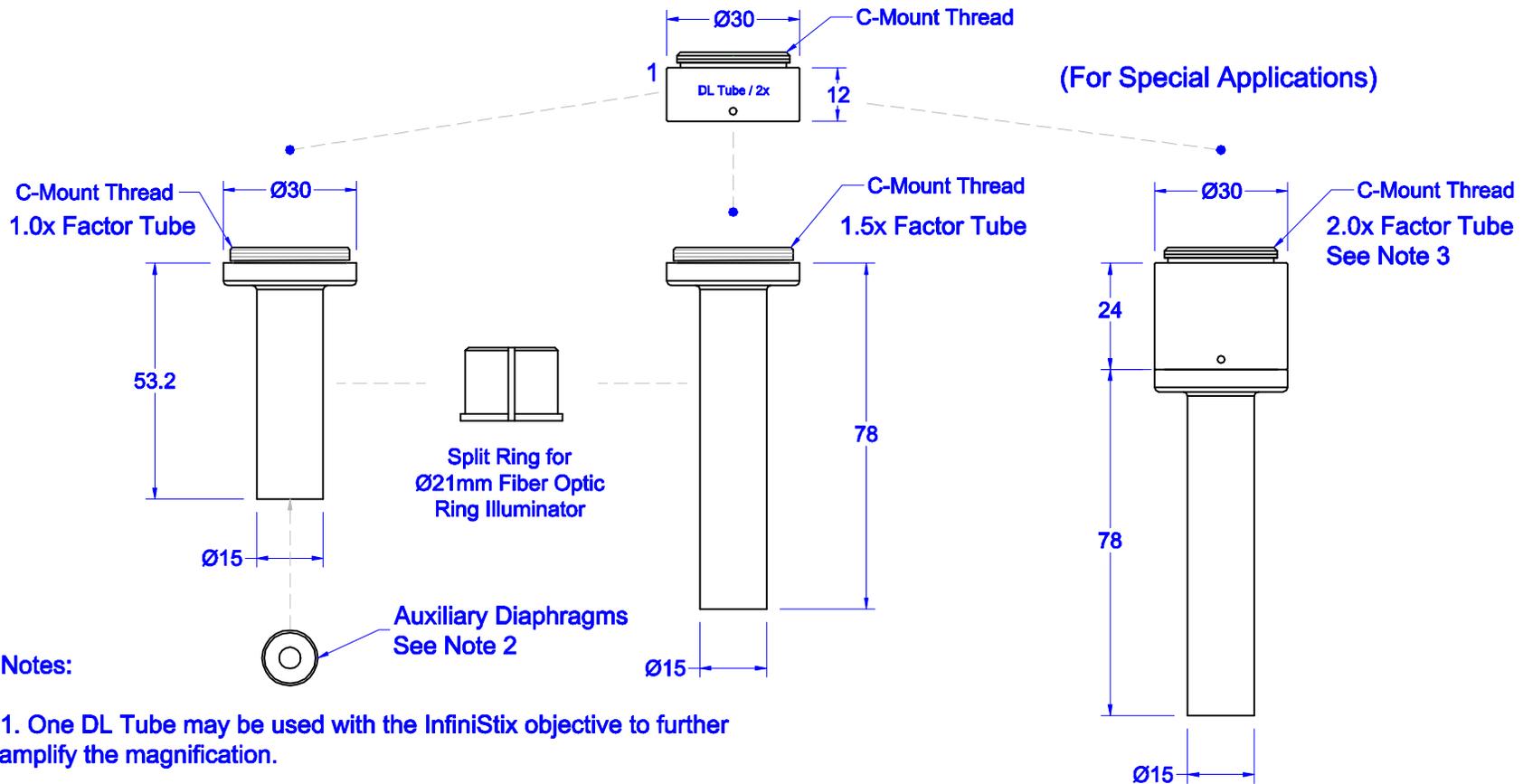
**Horizontal Fields of View for 1/4-in. Video Sensors**

<b>Working Distance</b>	<b>1.00x Factor Tube</b>	<b>1.50x Factor Tube</b>	<b>2.00x Factor Tube</b>
<b>18mm</b>	1.60mm	1.06mm	—
<b>44mm</b>	3.20mm	2.13mm	—
<b>68mm</b>	4.85mm	3.20mm	—
<b>94mm</b>	6.40mm	4.26mm	3.20mm

# Video Formats



All dimensions in mm.



**Notes:**

1. One DL Tube may be used with the InfinitiStix objective to further amplify the magnification.
2. Auxiliary Diaphragm Aperture may be used with the InfinitiStix objective to further amplify the magnification.
3. A C5 Spacer is required when used with a CS-mount camera.
4. Only available in 1.0x primary magnification.

ALL DIM ARE mm [inches] AND ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE.		 <b>INFINITY</b> Photo-Optical Company 2530 Frontier Ave., Boulder, CO 80301 303/440-4544 Fax 303/440-4144	
<b>InfinitiStix Configurations</b>			
Date: Dec. 2, 1998	SIZE B	FSCM NO.	DWG NO.
Modified: 1/25/1999	SCALE NONE	SHEET 1 of 1	