

# PHANTOM IMAGER SIZES & OPTICS



## Some Common Configurations

### OVERVIEW OF PHANTOM SENSOR SIZES

**PHANTOM 65**  
FULL FRAME 4096x2440  
51.2mm x 30.5mm  
59.6mm Diagonal

**PHANTOM Flex / v640**  
FULL FRAME 2560x1600  
25.6mmx16mm  
30.2mm Diagonal

**PHANTOM HD Gold**  
FULL FRAME 2048x2048  
25.5mmx25.5mm / 36.1mm diagonal

35mm FULL APERTURE  
31.1mm Diameter

### HD GOLD

35mm PL lens compatibility with 1920x1080

**PHANTOM HD Gold**  
FULL FRAME 2048x2048  
25.5mmx25.5mm  
36.1mm Diagonal

**PHANTOM HD Gold**  
@ 1920x1080  
24mmx13.5mm  
27.5mm Diagonal

35mm FULL APERTURE  
31.1mm Diameter

**35mm PL**

### FLEX/640

35mm PL lens compatibility with Full Frame 1.78:1 - 1680fps SQ; 840fps HQ

**PHANTOM Flex/640**  
FULL FRAME 1.78  
2560x1440  
25.6mmx14.4mm  
29.4mm Diagonal

35mm FULL APERTURE  
31.1mm Diameter

**35mm PL**

### FLEX/v640

35mm PL lens 1920x1080 extraction - up to 2400fps

**PHANTOM Flex/v640**  
FULL FRAME 1920x1080  
19.2x10.8mm  
22mm Diagonal

35mm FULL APERTURE  
31.1mm Diameter

**35mm PL**

equiv AOV (°1.28)		
FOCAL LENGTH		
equiv FL (x1.28)		
11 mm	14 mm	18 mm
39 mm	50 mm	65 mm
58 mm	75 mm	96 mm
77.5 mm	100 mm	129 mm

### FLEX/v640

Optical Adapter (HDx2) from 2/3" B4 to 1920x1080 PL

**HDx2 Optical Adapter**  
optimized for v640 imager @ 1920x1080  
22mm Diameter

2/3" B4

19.2x10.8mm  
22mm Diagonal

**2/3" B4**

### FLEX/640

Super16 at 720p

**PHANTOM Flex/640**  
FULL FRAME 1280x720  
12.8x7.2mm  
14.7mm Diagonal

Super16  
14.5mm Diameter

**Super16**