

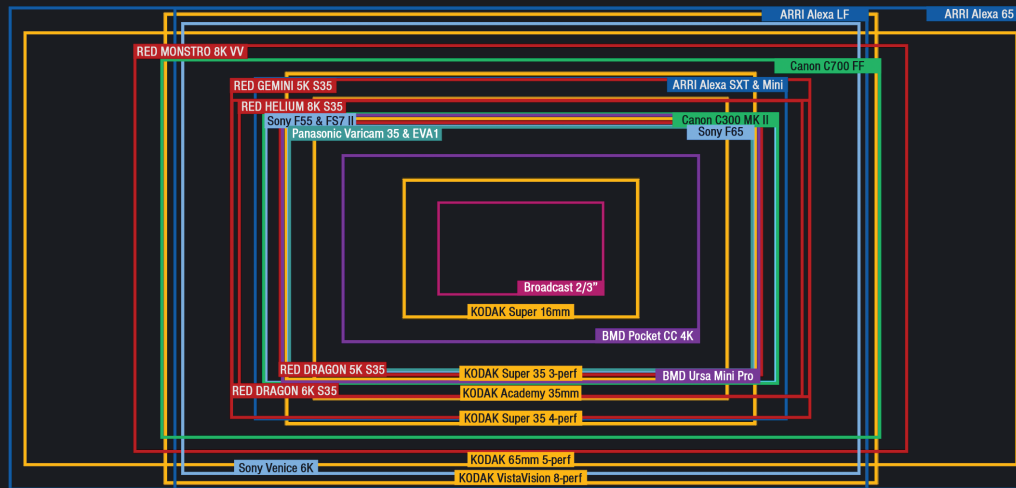
90mm

82mm

80mm

PHIL'S DIGITAL AND FILM SENSOR CHART

a quick reference for modern motion picture formats, image plane dimensions, and resolutions
the chart contains maximum resolution, format size, and image circle coverage
all formats exactly to scale



made by Phil Holland 05/31/2015
updated 07/11/2018

looking to compare more cameras, specs, crop factors, and lens FOV for different formats?
check out formatCompare under the Tools section on my website.

PHIL HOLLAND
PHFX.COM

KODAK 70mm 15-Perf

RED

	RESOLUTION	MAX FORMAT	IMAGE CIRCLE	N*
MONSTRO 8K VV	8192x4320	40.96x21.6mm	46.31mm	✓
HELIUM 8K S35	8192x4320	29.9x15.77mm	33.8mm	✓
GEMINI 5K S35	5120x3000	30.72x18mm	35.61mm	✓
DRAGON 8K S35	6144x3160	30.72x15.8mm	34.55mm	✓
DRAGON 5K S35	5120x2700	25.60x13.5mm	28.94mm	✓

ARRI®

Alexa 65	6560x3100	54.12x25.58mm	59.86mm	✓
Alexa LF	4448x3096	36.7x25.54mm	44.71mm	✓
Alexa SXT & Mini	3424x2202	28.25x18.17mm	33.59mm	X

Canon

C700 FF	5952x3140	38.09x20.1mm	43.07mm	✓
C300 MK II	4096x2160	27.30x14.4mm	30.87mm	✓

SONY

Venice 6K	6048x4032	35.90x23.93mm	43.14mm	✓
F65	5782x3060	24.70x13.07mm	27.94mm	✓
F55 & FS7 II	4096x2160	27.10x14.29mm	30.64mm	✓

Panasonic

Varicam 35	4096x2160	24.60x12.97mm	27.81mm	✓
EVA1	5720x3016	24.60x12.97mm	27.81mm	✓

Blackmagicdesign

Ursa Mini Pro 4.6K	4608x2592	25.34x14.25mm	29.07mm	✓
Pocket CC 4K	4096x2160	18.96x10.00mm	21.44mm	?

Broadcast

2/3"	HD or UHD	~8.85x5mm	~10.2mm	?
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Kodak

70mm 15-perf IMAX	11586x8658	70.40x52.61mm	87.89mm	✓
65mm 5-perf	8661x3787	52.63x23.01mm	57.44mm	✓
VistaVision 8-perf	6204x4114	37.7x25mm	46.24mm	✓
Super 35mm 4-perf	4096x3072	24.88x18.67mm	31.11mm	✓
Super 35mm 3-perf	4096x2286	24.88x13.89mm	28.5mm	✓
Academy 35mm	3620x2632	22x15.99mm	27.2mm	X
Super 16mm	2060x1218	12.52x7.40mm	14.54mm	X

* - Camera has been approved by Netflix for Original UHD 4K or 4K+ capture and delivery.
There are more cameras on their list, but generally these are also approved for 4K delivery industry-wide.
If marked ? it's either currently unknown or on a camera by camera basis.

80mm

82mm

90mm

For a bigger preview



http://phfx.com/tools/dpThing_philsSensorChart/phfx_philsSensorChart.png

OPEN TO SEE THE

PHIL'S DIGITAL AND FILM SENSOR CHART

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