

# Depth of field on 1.6 crop sensor

Compiled by Ben Hollingsworth using Bob Atkins' online calculator

## 17mm lens

Focus	f/1.4		f/2		f/2.8		f/4		f/5.6		f/8		f/11		f/16		f/22		f/32	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
<b>Hyper</b>	36'7"		25'7"		18'3"		12'9"		9'2"		6'5"		4'8"		3'2"		2'4"		1'7"	
	18'3"	inf	12'9"	inf	9'1"	inf	6'4"	inf	4'7"	inf	3'2"	inf	2'4"	inf	1'7"	inf	1'2"	inf	0'9"	inf
<b>1'3"</b>	1'2"	1'3"	1'2"	1'3"	1'2"	1'4"	1'1"	1'4"	1'1"	1'5"	1'0"	1'6"	0'11"	1'8"	0'10"	1'11"	0'9"	2'6"	0'8"	4'10"
<b>2'6"</b>	2'4"	2'8"	2'3"	2'9"	2'2"	2'10"	2'1"	3'1"	1'11"	3'4"	1'9"	4'0"	1'7"	5'3"	1'5"	10'6"	1'2"	inf	0'11"	inf
<b>5'</b>	4'4"	5'9"	4'2"	6'2"	3'11"	6'10"	3'7"	8'1"	3'2"	10'10"	2'9"	21'10"	2'5"	inf	1'11"	inf	1'7"	inf	1'2"	inf
<b>10'</b>	7'10"	13'8"	7'2"	16'4"	6'5"	21'10"	5'7"	44'6"	4'9"	inf	3'11"	inf	3'2"	inf	2'5"	inf	1'210"	inf	1'4"	inf
<b>20'</b>	12'11"	43'10"	11'3"	89'11"	9'6"	inf	7'9"	inf	6'3"	inf	4'10"	inf	3'9"	inf	2'9"	inf	2'1"	inf	1'5"	inf
<b>40'</b>	19'1"	inf	15'7"	inf	12'6"	inf	9'8"	inf	7'5"	inf	5'6"	inf	4'2"	inf	2'11"	inf	2'2"	inf	1'6"	inf
<b>inf</b>	35'0"	inf	25'0"	inf	17'7"	inf	12'6"	inf	9'2"	inf	6'5"	inf	4'8"	inf	3'2"	inf	2'4"	inf	1'7"	inf

## 50mm lens

Focus	f/1.4		f/2		f/2.8		f/4		f/5.6		f/8		f/11		f/16		f/22		f/32	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
<b>Hyper</b>	316'11"		221'10"		158'5"		110'11"		79'2"		55'5"		40'4"		27'8"		20'2"		13'10"	
	158'5"	inf	110'11"	inf	79'3"	inf	55'5"	inf	39'7"	inf	27'9"	inf	20'2"	inf	13'10"	inf	10'1"	inf	6'11"	inf
<b>1'3"</b>	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'2"	1'3"	1'2"	1'3"	1'2"	1'3"	1'2"	1'3"	1'1"	1'4"
<b>2'6"</b>	2'6"	2'6"	2'5"	2'6"	2'5"	2'6"	2'5"	2'7"	2'5"	2'7"	2'4"	2'7"	2'4"	2'7"	2'3"	2'8"	2'2"	2'9"	2'1"	3'0"
<b>5'</b>	4'11"	5'0"	4'10"	5'1"	4'10"	5'1"	4'9"	5'2"	4'8"	5'3"	4'7"	5'5"	4'5"	5'8"	4'3"	6'0"	4'0"	6'6"	3'8"	7'8"
<b>10'</b>	9'8"	10'3"	9'6"	10'5"	9'4"	10'7"	9'2"	10'11"	8'10"	11'5"	8'5"	12'1"	8'0"	13'2"	7'4"	15'5"	6'8"	19'6"	5'10"	34'4"
<b>20'</b>	18'9"	21'4"	18'4"	21'11"	17'9"	22'10"	16'11"	24'4"	15'11"	26'8"	14'8"	31'1"	13'4"	39'4"	11'7"	70'2"	10'0"	121'4'8"	8'2"	inf
<b>40'</b>	35'6"	45'9"	33'10"	48'9"	31'11"	53'5"	39'5"	26'4"	26'7"	80'5"	23'3"	141'11"	20'1"	322'7'1"	16'5"	inf	13'5"	inf	10'3"	inf
<b>inf</b>	305'3"	inf	215'8"	inf	152'6"	inf	108'0"	inf	79'2"	inf	55'5"	inf	40'4"	inf	27'8"	inf	20'2"	inf	13'10"	inf

## 70mm lens

Focus	f/1.4		f/2		f/2.8		f/4		f/5.6		f/8		f/11		f/16		f/22		f/32	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
<b>Hyper</b>	621'2"		434'9"		310'7"		217'5"		155'3"		108'8"		79'0"		54'4"		39'6"		27'2"	
	310'7"	inf	217'4"	inf	155'3"	inf	108'8"	inf	72'7"	inf	54'4"	inf	39'6"	inf	27'2"	inf	19'9"	inf	13'7"	inf
<b>1'3"</b>	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'3"	1'2"	1'3"	1'2"	1'3"	1'2"	1'3"
<b>2'6"</b>	2'6"	2'6"	2'6"	2'6"	2'6"	2'6"	2'5"	2'6"	2'5"	2'6"	2'5"	2'6"	2'5"	2'6"	2'4"	2'7"	2'4"	2'7"	2'3"	2'8"
<b>5'</b>	4'11"	5'0"	4'11"	5'0"	4'11"	5'0"	4'10"	5'1"	4'10"	5'1"	4'9"	5'2"	4'8"	5'3"	4'7"	5'5"	4'5"	5'8"	4'3"	6'0"
<b>10'</b>	9'10"	10'1"	9'9"	10'2"	9'8"	10'3"	9'6"	10'5"	9'4"	10'8"	9'2"	10'11"	8'10"	11'4"	8'5"	12'2"	8'0"	13'3"	7'4"	15'7"
<b>20'</b>	19'4"	20'7"	19'1"	20'11"	18'9"	21'4"	18'3"	22'0"	17'8"	22'11"	16'11"	24'5"	15'11"	26'8"	14'7"	31'5"	13'3"	40'0"	11'6"	73'4"
<b>40'</b>	37'7"	42'8"	36'7"	44'0"	35'5"	45'10"	33'9"	48'11"	31'10"	53'9"	29'3"	63'0"	26'7"	80'5"	23'1"	149'1"	19'11"	inf	16'2"	inf
<b>inf</b>	598'1"	inf	423'0"	inf	299'1"	inf	211'6"	inf	153'3"	inf	108'8"	inf	79'0"	inf	54'4"	inf	39'6"	inf	27'2"	inf