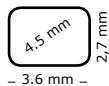


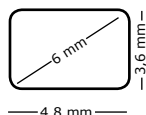
## CONVERSION TABLE FOR HORIZONTAL ANGLE OF VIEW

Lenses for 1", 2/3", 1/2", 1/3" and 1/4" can be used on cameras with a smaller CCD chip, but not vice versa. By doing this, the viewing angle will change according to the table below:

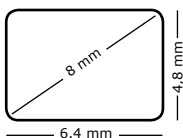
**1/4" Chip**



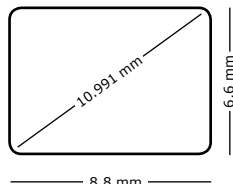
**1/3" Chip**



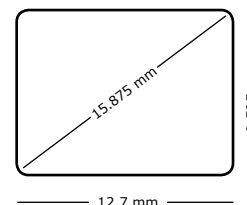
**1/2" Chip**



**2/3" Chip**



**1" Chip**



### Horizontal angle of view

Focal Length	1/4"	1/3"	1/2"	2/3"	1"
Fisheye 1,6 mm	180°00'	180°00'			
2,2 mm	92°36'				
2,8 mm	71°32'	94°17'			
3,0 mm	68°58'	93°13'			
Fisheye 3,4 mm	64°53'	89°33'			
3,5 mm	58°44'	79°50'			
3,6 mm	53°54'	72°00'			
3,7 mm	53°32'	71°01'	93°39'		
4,0 mm	49°10'	63°53'			
4,2 mm	47°52'	64°16'	86°46'		
4,6 mm	41°38'				
4,8 mm	41°40'	55°07'	72°22'	95°34'	
5,0 mm	37°48'	50°00'			
5,8 mm	33°46'	44°04'			
6,0 mm	32°58'	43°33'	56°56'		
6,2 mm	32°26'	42°49'	56°07'		
6,3 mm	31°16'	41°07'			
6,5 mm	29°56'	39°44'	52°31'	71°51'	99°27'
7,5 mm	26°09'	34°31'	45°03'		
8,0 mm	25°09'	33°19'	43°53'	58°41'	
8,5 mm	24°01'	31°52'	42°05'	57°34'	79°46'
9,0 mm	22°18'	29°36'	39°07'	52°36'	77°43'
10,0 mm	19°53'	26°25'	34°58'	47°35'	
10,5 mm	18°58'	25°14'	33°29'	45°52'	
12,0 mm	16°33'	22°04'	29°25'		
12,5 mm	16°13'	21°32'	28°31'	39°07'	54°36'
15,0 mm	13°17'	17°41'	23°32'	32°13'	46°04'
16,0 mm	12°42'	16°55'	22°29'	30°40'	
20,0 mm				24°16'	
21,0 mm				23°13'	
24,0 mm	8°32'	11°24'	15°16'		
25,0 mm	8°14'	10°58'	14°37'	19°58'	28°30'
28,0 mm	7°30'				
30,0 mm				15°55'	22°43'
35,0 mm	6°04'	8°05'	10°46'	14°46'	
38,0 mm	5°35'	7°26'			
48,0 mm	4°52'	5°52'	7°44'		
50,0 mm	4°08'	5°30'	7°19'	10°02'	14°25'
58,0 mm	3°37'	4°47'			
75,0 mm	2°45'	3°40'	4°54'	6°34'	9°25'
78,0 mm	2°42'	3°30'	4°42'	6°30'	9°30'
90,0 mm	2°20'	3°05'		5°32'	8°24'
100,0 mm				5°01'	7°10'
105,0 mm	2°01'	2°41'	3°34'	4°50'	
120,0 mm	1°46'	2°20'	3°05'		
140,0 mm	1°31'	2°01'	2°41'	3°38'	
144,0 mm	1°26'	1°55'	2°33'		
150,0 mm				3°21'	4°48'
180,0 mm	1°11'	1°34'	2°05'	2°52'	4°05'
210,0 mm				2°28'	
240,0 mm	0°53'	1°10'	1°34'		
280,0 mm				1°51'	
360,0 mm				1°25'	2°01'
660,0 mm	0°19'	0°25'	0°34'		
1320,0 mm	0°10'	0°13'	0°17'		