

1		2		3		4	
A						A	
B						B	
C						C	
D						D	
E						E	
F						F	

Technical drawing of the FA7505D camera. The drawing shows the front view of the camera with various dimensions and labels. The overall length is (75.4~86.8) mm, and the overall width is (71.4~82.8) mm. The mounting flange has a diameter of $\phi 37.0 \pm 0.10$ mm. The camera body has a diameter of $\phi 36.0 \pm 0.10$ mm. The distance from the mounting flange to the center of the lens is 24.0 $\pm$ 0.10 mm. The lens has a diameter of $\phi 36.0 \pm 0.10$ mm. The distance from the lens to the image plane is 17.526 $\pm$ 0.10 mm. The image plane has a diameter of 4.0 $\pm$ 0.05 mm. The camera is labeled with "NEAR Δ 28.4". The mounting flange has a thread of M33.5xP0.5-6H. The camera is labeled with "光栏紧固螺丝" (Shutter screw) and "调焦紧固螺丝" (Focus screw). The camera is labeled with "1-32UNF".

2/3" F2.8 75毫米				Working distance	Optical Magnification	2/3" Field of View(mm)		
Focal Length		f=75MM		mm		H	V	
Max Diameter (Ratio)		F=1:2.8~16		5000	0.0147X	600.572	450.429	
Picture Size		2/3"(8.8×6.6mm) 1/2"(6.4×4.8mm)		4000	0.0184X	479.640	359.730	
Angle		H	6.0°	4.3°	3000	0.0246X	358.706	269.030
		V	4.5°	3.2°	2000	0.0371X	237.771	178.328
		D	8.5°	5.7°	1800	0.0413X	213.584	160.188
Object Dimension at WD:500mm		H	56mm	40.9mm	1600	0.0466X	189.391	142.047
		V	41mm	30.6mm	1500	0.0498X	177.302	132.976
		D	70.4mm	51.1mm	1400	0.0534X	165.207	123.905
Distortion (TV)		<0.15% <0.1%		1300	0.0576X	153.113	114.834	
Focus distance(min)		0.5m--∞m		1200	0.0626X	141.018	105.764	
Flange back		17.526mm in air		1100	0.0684X	128.923	96.692	
Back focus		33.3mm in air		1000	0.0755X	116.828	87.621	
Filter screw size		M33.5xP0.5-6H		900	0.0842X	104.732	78.549	
Front/Rear Effective Dia		Front ϕ 20.58mm Rear ϕ 15.88mm		800	0.0952X	92.636	69.477	
Mount		C-Mount		700	0.1095X	80.539	60.404	
Temperature Range		-10~+50°C		600	0.1289X	68.441	51.331	
Storage Temperature Range		-20~+60°C		500	0.1566X	56.342	42.256	
				三角法		材料(环保)	单位	比例
						---	mm	2:1
				设计		FA7505D规格书		页码
				校对				1/1
				审核		FA7505D-SPEC		版本
				批准				V0
标记	处数	更改文件号	担当	变更日期		代号		

1

2

3

4

FA7505D规格书

FA7505D-SPEC

V0