

YZ7A TONOMETER

The design and manufacture of YZ7A tonometer comply with the International Standard ISO/TR8612-1997<Tonometer>. The tonometer features accurate weight and reliable performance.

The YZ7A tonometer is easy to use. Its basic principle is measuring the intraocular pressure according to certain pressing depth. Each increment on the scale equals to 1/20mm corneal pressing depth, and the readings on scale can be converted to intraocular pressure by looking up the Calibration Scale for Tonometer.

Before use, put the tonometer on calibration platform for "0" position check (refers to 2. Calibration). In case pressing needle can't move smoothly in vertical way, take it out for cleaning with dry cotton ball. Before that, the 5.5g weight should be removed first. The pressing needle should be cleaned from time to time because it cannot move smoothly if it's tainted with tear or liquid medicine. In addition, the calibration ring can be cleaned with ether or 75% alcohol.

1. Directions for Use:

The patient should lie supine. Drop surface anesthetic such as 0.5-1% pantocain onto patient's conjunctiva sac for two or three drops. Don't use cocain for anesthetization because it will soften the epithelium and make

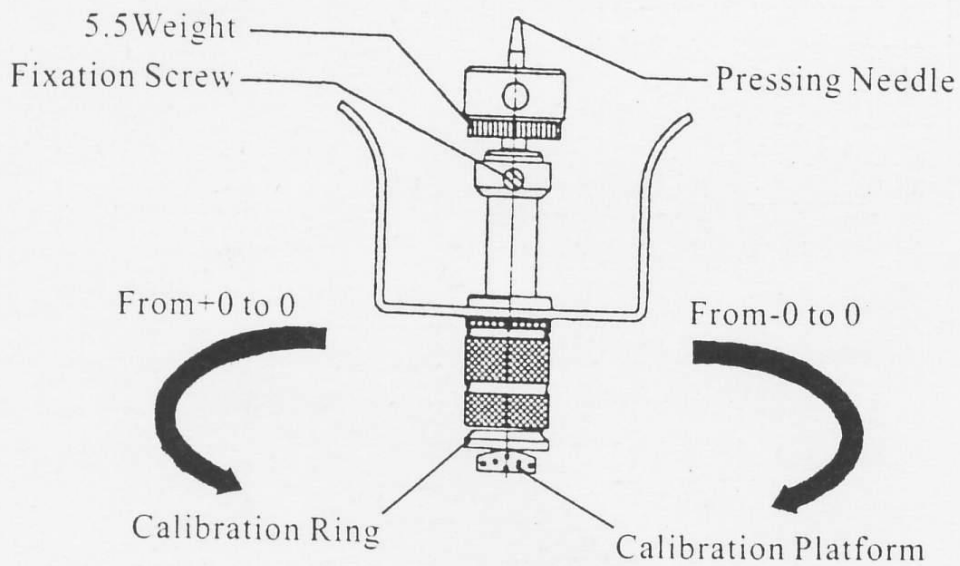
the tonometer easy to scratch corneal, which could affect the testing result. If the eye can open naturally and doesn't feel any discomfort in one minute after an anesthetization, it indicates the eye has been fully anesthetized and the testing can begin at that time. The ideal position for the eyeball shall be that it directs vertically upwards. Otherwise, the testing result will not be accurate. With tonometer in one hand, the operator should open the patient's eye with the other hand to fully expose the cornea. Weight 5.5g is fixed on the tonometer which is for normal testing. If the intraocular pressure is relatively high and the indicator lies between "0"~"3", weight 7.5g, 10g or 15g should be added respectively. Then, convert the readings on scale to intraocular pressure according to the attached Calibration Scale for Tonometer. The normal intraocular pressure is not more than 21mmHg (2.8Kpa). If it's above 25mmHg (3.33Kpa), further examinations are in need.

2. Directions for Calibration

Although we have taken shock-proof into consideration when designing package for the tonometer, "0" position may possibly be not accurate after long-distance transportation. If that happens, the operator may calibrate it by himself in the following steps:

- 1) Put the tonometer on calibration platform to check "0" position. ("-" means over "0" position, "+" means less than "0" position.)
- 2) Loosen the fixation screw.

- 3) If the indicator is at "+0", turn the calibration ring clockwise. If at "- 0", turn the ring counterclockwise. Fasten the fixation screw after the indicator is at "0" position.
- 4) If "0" position is not accurate after long use, the operator could adjust it according to the above method. If calibration in this way



3. Accessories:

- | | |
|--------------------------------|------|
| 1) 7.5g weight | 1 pc |
| 10g weight | 1 pc |
| 15g weight | 1 pc |
| 2) Calibration Platform(glass) | 1 pc |
| 3) Brush | 1 pc |

Calibration Scale for Tonometer (1955 Scale)

Scale Reading	5.5g		7.5g		10.0g		15.0g	
	mmHg	Kpa	mmHg	Kpa	mmHg	Kpa	mmHg	Kpa
0	41.38	5.52	59.14	7.88	81.65	10.89	127.45	16.99
0.5	37.78	5.04	54.21	7.23	75.11	10.01	117.87	15.71
1.0	34.52	4.60	49.76	6.63	69.27	9.24	109.28	14.57
1.5	31.61	4.21	45.76	6.10	63.96	8.53	101.44	13.52
2.0	28.97	3.86	42.12	5.62	59.10	7.88	94.32	12.57
2.5	26.56	3.54	38.80	5.17	54.66	7.29	87.99	11.73
3.0	24.34	3.25	35.76	4.77	50.62	6.75	81.78	10.90
3.5	22.38	2.98	32.97	4.40	46.86	6.25	76.20	10.16
4.0	20.55	2.47	30.39	4.05	43.38	5.78	71.03	9.47
4.5	18.86	2.51	28.01	3.75	40.18	5.36	66.23	8.83
5.0	17.30	2.31	25.81	3.44	37.19	4.96	61.75	8.23
5.5	15.88	2.12	23.78	3.17	34.40	4.59	58.02	7.74
6.0	14.57	1.94	21.89	2.92	31.82	4.24	53.61	7.15
6.5	13.35	1.78	20.05	2.67	29.40	3.92	49.94	6.66
7.0	12.23	1.63	18.52	2.47	27.16	3.62	46.46	6.19
7.5	11.20	1.49	17.01	2.27	25.06	3.34	43.22	5.76
8.0	10.24	1.37	15.61	2.08	23.09	3.08	40.17	5.36
8.5	9.36	1.25	14.31	1.91	21.26	2.83	38.13	5.08
9.0	8.54	1.14	13.10	1.75	19.51	2.60	34.56	4.61
9.5	7.79	1.04	11.97	1.60	17.96	2.39	32.02	4.27
10.0	7.10	0.95	10.94	1.46	16.48	2.20	29.61	3.95
10.5	6.46	0.86	9.98	1.33	15.10	2.01	27.37	3.65
11.0	5.87	0.78	9.09	1.21	13.81	1.84	25.26	3.37
11.5	5.34	0.71	8.28	1.10	12.62	1.68	23.27	3.10
12.0	4.85	0.65	7.51	1.00	11.50	1.53	21.42	2.86
12.5	4.39	0.59	6.82	0.91	10.48	1.40	19.69	2.63
13.0	3.96	0.53	6.18	0.82	9.53	1.27	18.05	2.41
13.5			5.59	0.75	8.64	1.15	16.53	2.20
14.0			5.04	0.67	7.83	1.04	15.12	2.02
14.5			4.54	0.61	7.08	0.94	13.70	1.83
15.0			4.09	0.55	6.40	0.85	12.57	1.68
15.5					5.76	0.77	11.43	1.52
16.0					5.19	0.69	10.38	1.38
16.5					4.66	0.62	9.41	1.25
17.0					4.17	0.56	8.50	1.13
17.5							7.76	1.02
18.0							6.92	0.92
18.5							6.21	0.83
19.0							5.57	0.74
19.5							4.87	0.65
20.0							4.45	0.59