Accuracy Measures
For Positioning Systems

Dimensions	Accuracy Measure	Probability (percent)	Typical Usage (dimension)
1	rms	68	vertical
2	CEP	50	horizontal
2	rms	63-68	horizontal
2	R95	95	horizontal
2	2drms	95-98	horizontal
3	rms	61-68	3-D
3	SEP	50	3-D

Relations Between Measures
Assuming Normal Error Distribution in All Coordinates

rms (vertical)	CEP	rms (horizontal)	R95 (horizontal 95 percent)	2drms	rms (3-D)	SEP	
1	0.44	0.53	0.91	1.1	1.1	0.88	**rms (vertical)**
	1	1.2	2.1	2.4	2.5	2.0	**CEP**
		1	1.7	2	2.1	1.7	**rms (horizontal)**
			1	1.2	1.2	0.96	**R95 (horizontal 95 percent)**
				1	1.1	0.85	**2drms**
					1	0.79	**rms (3-D)**
						1	**SEP**