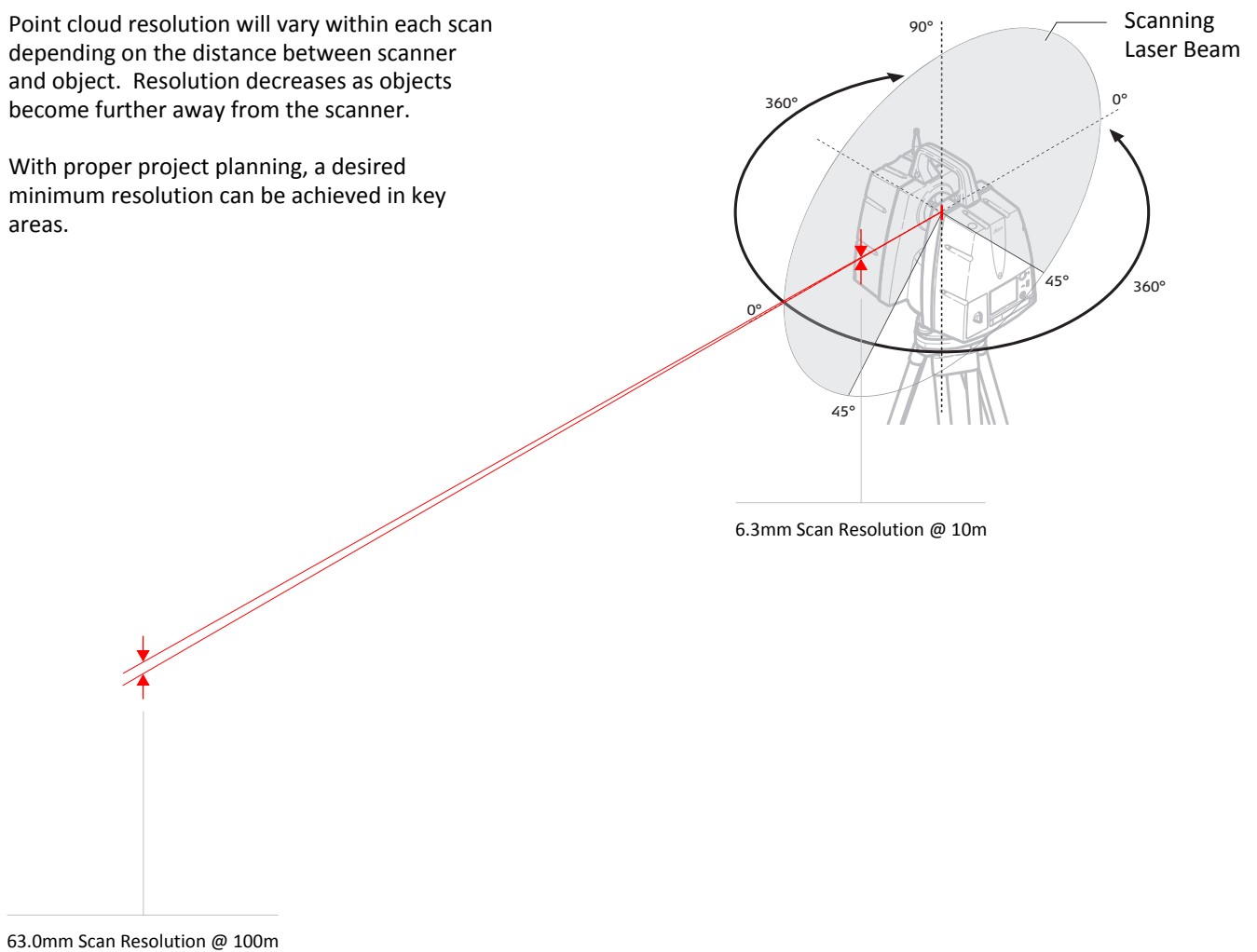


Understanding Scan Resolution

Point cloud resolution will vary within each scan depending on the distance between scanner and object. Resolution decreases as objects become further away from the scanner.

With proper project planning, a desired minimum resolution can be achieved in key areas.



Scan Resolution at Various Distances

METRIC RESOLUTION TABLE:

Resolution Setting:	AT DISTANCE OF (METERS)							
	2m	5m	10m	25m	50m	100m	200m	270m (max.)
50.0mm@10m	10.0	25.0	50.0	125.0	250.0	500.0	1000.0	1350.0
25.0mm@10m	5.0	12.5	25.0	62.5	125.0	250.0	500.0	675.0
12.5mm@10m	2.5	6.3	12.5	31.3	62.5	125.0	250.0	337.5
6.3mm@10m	1.3	3.1	6.3	15.8	31.5	63.0	126.0	170.1
3.1mm@10m	0.6	1.6	3.1	7.8	15.5	31.0	62.0	83.7
1.6mm@10m	0.3	0.8	1.6	4.0	8.0	16.0	32.0	43.2
0.8mm@10m	0.2	0.4	0.8	2.0	4.0	8.0	16.0	21.6

POINT SPACING (MILLIMETERS)

IMPERIAL RESOLUTION TABLE:

Resolution Setting:	AT DISTANCE OF (FEET)							
	6.6 ft	16.4 ft	32.8 ft	82.0 ft	164.0 ft	328.0 ft	656.2 ft	885.8 ft (max.)
50.0mm@10m	0.39	0.98	1.97	4.92	9.84	19.69	39.37	53.15
25.0mm@10m	0.20	0.49	0.98	2.46	4.92	9.84	19.69	26.57
12.5mm@10m	0.10	0.25	0.49	1.23	2.46	4.92	9.84	13.29
6.3mm@10m	0.05	0.12	0.25	0.62	1.24	2.48	4.96	6.70
3.1mm@10m	0.02	0.06	0.12	0.31	0.61	1.22	2.44	3.30
1.6mm@10m	0.01	0.03	0.06	0.16	0.31	0.63	1.26	1.70
0.8mm@10m	0.01	0.02	0.03	0.08	0.16	0.31	0.63	0.85

POINT SPACING (INCHES)

Scan & Image Times

SCAN ONLY TIMES:

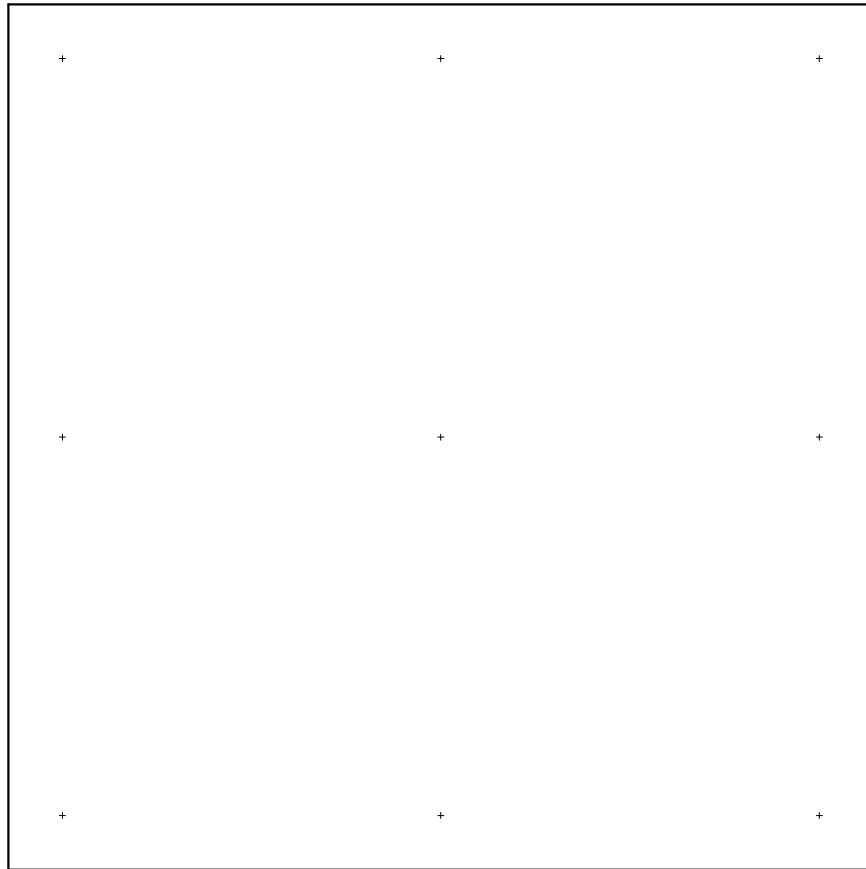
EDM Mode: Resolution Setting:	SPEED		RANGE	
	Normal	High	Normal	High
50.0mm@10m	0:00:20	0:00:20	0:00:20	0:00:28
25.0mm@10m	0:00:33	0:00:33	0:00:33	0:00:53
12.5mm@10m	0:00:58	0:00:58	0:00:58	0:01:44
6.3mm@10m	0:01:49	0:03:25	0:01:49	0:06:46
3.1mm@10m	0:03:30	0:13:30	0:06:47	0:26:59
1.6mm@10m	0:13:33	0:54:07	0:27:04	1:48:13
0.8mm@10m	0:54:06	3:36:23	1:48:11	3:36:22

TIME (H:MM:SS)

IMAGES ONLY TIMES:

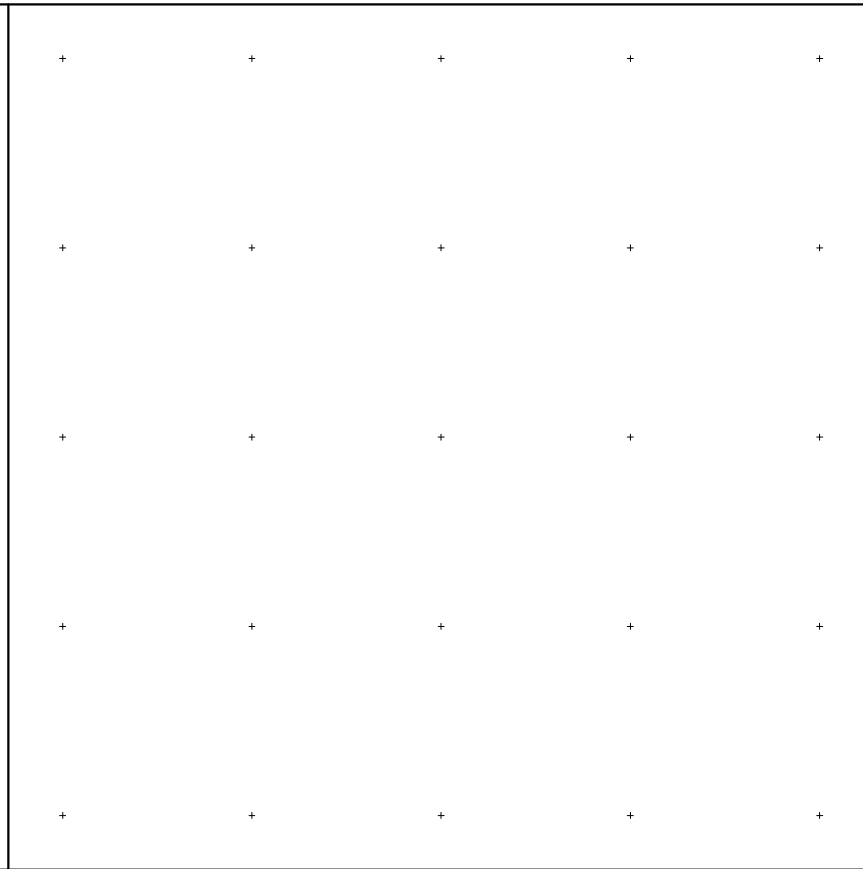
HDR Imaging:	Exposure:	IMAGE RESOLUTION		
		1920 x 1920	960 x 960	640 x 640
No	Manual	0:06:55	0:07:09	0:06:51
No	Automatic	0:07:22	0:06:12	0:06:01
Yes	Manual	0:09:41	0:10:01	0:09:35
Yes	Automatic	0:10:19	0:08:40	0:08:26

TIME (H:MM:SS)



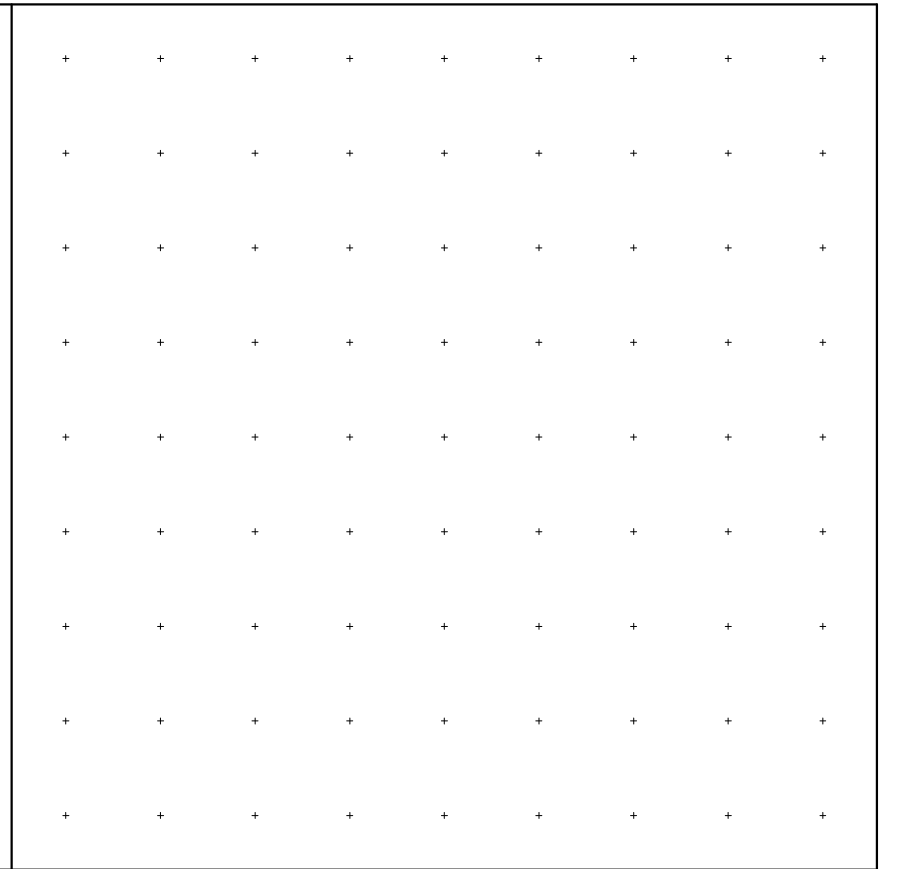
50.0mm@10m
Ultra Low Resolution

0:00:20 - 0:00:28



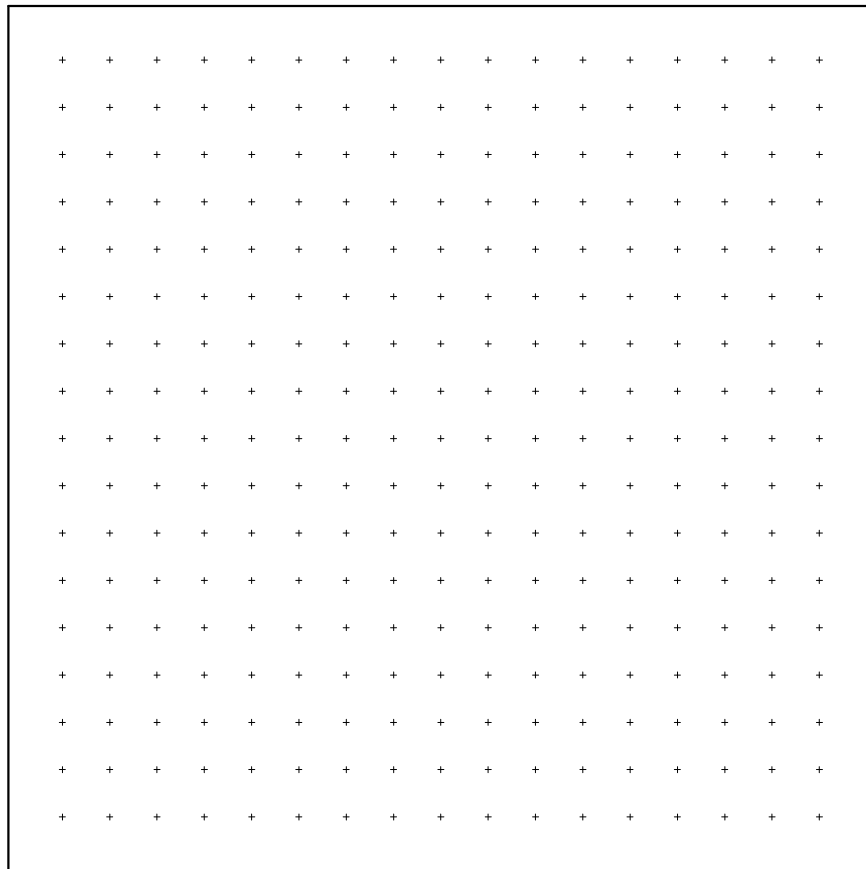
25.0mm@10m
Extra Low Resolution

0:00:33 - 0:00:53



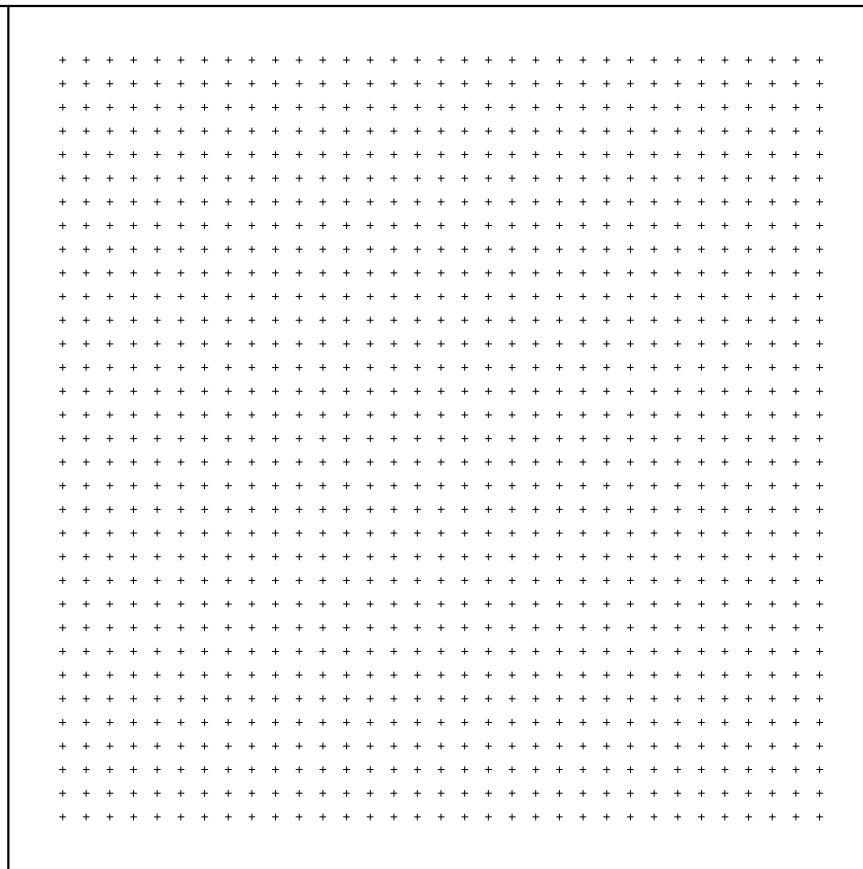
12.5mm@10m
Low Resolution

0:00:58 - 0:01:44



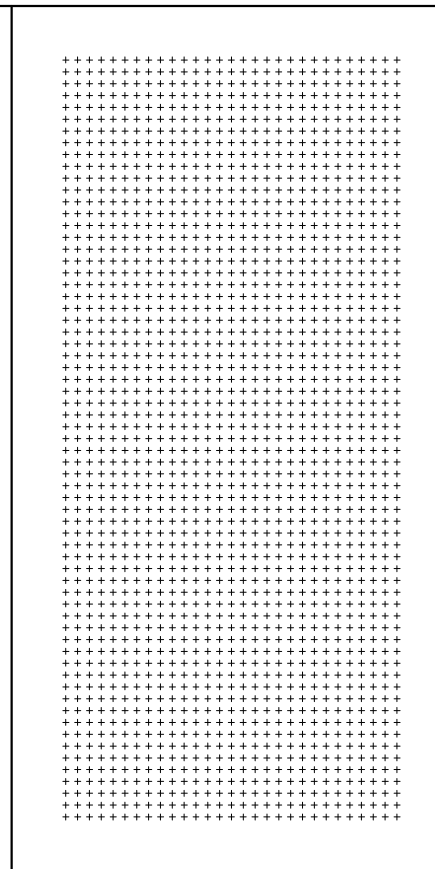
6.3mm@10m
Standard Resolution

0:01:49 - 0:06:46



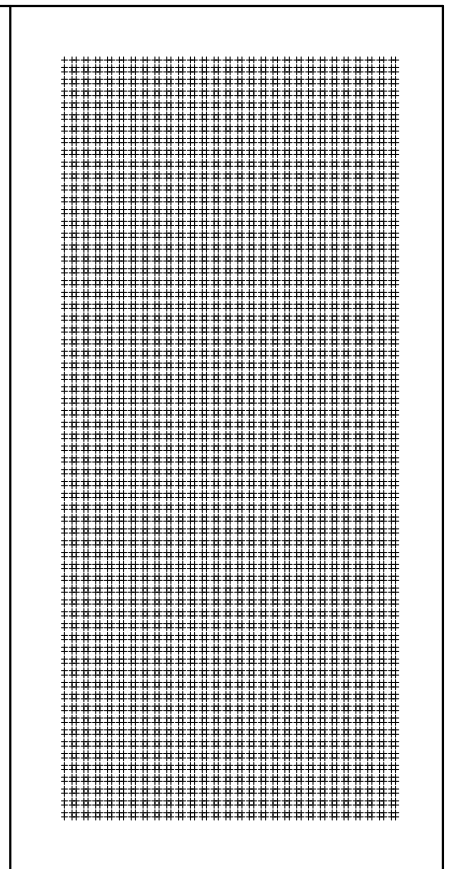
3.1mm@10m
High Resolution

0:03:30 - 0:26:59



1.6mm@10m
Extra High Resolution

0:13:33 - 1:48:13



0.8mm@10m
Ultra High Resolution

0:54:06 - 3:36:22