

COLOR3-ACL-Scope V1.0 ANNEX 1

Scan frequency in Hz (worst case) at various average setting and MAX COL.-NO. settings in evaluation cases FIRST HIT, MINIMAL DIST and EXTERN TEACH

ATTENTION: These values are measured without EXPOSURE TIME, i.e. for determining the true scanning frequency the EXPOSURE TIME that is set under the Windows® unser interface must still be added.

Calculation example:

MAXCOL-No. = 1, Average = 16, EXPOSURE TIME = 100µs

According to the table, the scanning frequency is 1420Hz, which is equal to 704µs. (AVERAGE x EXPOSURE TIME) now still must be added to these 704µs. In the example this means that the time for the detection of a measurement value is 704µs + 16x100µs = 2304µs, i.e. the scanning frequency is 434Hz.

Average	1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768
MAXCOL-No. = 1	11494	7752	4717	2660	1420	733	373	188	94,34	47,17	23,58	11,79	5,90	2,948	1,474	0,737
MAXCOL-No. = 2	7692	6024	4016	2421	1350	714	368	187	94,01	47,09	23,56	11,79	5,89	2,948	1,474	0,737
MAXCOL-No. = 3	6173	4926	3497	2222	1285	695	363	185	93,69	47,01	23,54	11,78	5,89	2,947	1,474	0,737
MAXCOL-No. = 4	5000	4167	3096	2053	1227	678	358	184	93,36	46,92	23,52	11,78	5,89	2,947	1,474	0,737
MAXCOL-No. = 5	4202	3610	2778	1908	1174	661	354	183	93,04	46,84	23,50	11,77	5,89	2,947	1,474	0,737
MAXCOL-No. = 6	3636	3185	2519	1783	1125	646	349	182	92,72	46,76	23,48	11,77	5,89	2,947	1,474	0,737
MAXCOL-No. = 7	3205	2849	2304	1672	1080	631	345	180	92,40	46,68	23,46	11,76	5,89	2,946	1,474	0,737
MAXCOL-No. = 8	2865	2577	2123	1575	1038	616	340	179	92,09	46,60	23,44	11,76	5,89	2,946	1,473	0,737
MAXCOL-No. = 9	2591	2353	1969	1488	1000	602	336	178	91,78	46,52	23,42	11,75	5,89	2,946	1,473	0,737
MAXCOL-No. = 10	2364	2165	1835	1410	964	589	332	177	91,47	46,44	23,40	11,75	5,88	2,945	1,473	0,737
MAXCOL-No. = 11	2174	2004	1718	1340	931	577	328	176	91,16	46,36	23,38	11,74	5,88	2,945	1,473	0,737
MAXCOL-No. = 12	2012	1866	1616	1277	900	565	324	175	90,85	46,28	23,36	11,74	5,88	2,945	1,473	0,737

MAXCOL-No. = 13	1873	1745	1524	1220	871	553	320	173	90,55	46,20	23,34	11,73	5,88	2,944	1,473	0,737
MAXCOL-No. = 14	1751	1639	1443	1167	844	542	316	172	90,24	46,12	23,32	11,73	5,88	2,944	1,473	0,737
MAXCOL-No. = 15	1645	1546	1370	1119	818	531	313	171	89,94	46,04	23,30	11,72	5,88	2,944	1,473	0,737

COLOR3-ACL-Scope V1.0 ANNEX 2

Scan frequency in Hz (worst case) at various average setting and MAX COL.-NO. settings in evaluation cases CONTRAST R, CONTRAST G, CONTRAST B.

ATTENTION: These values are measured without EXPOSURE TIME, i.e. for determining the true scanning frequency the EXPOSURE TIME that is set under the Windows® unser interface must still be added (cf. ANNEX I).

Average	1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768
Scan-Frequenz	94340	62500	38462	21739	11364	5882	2994	1515	758	379	189	95	47	24	12	6

COLOR3-ACL-Scope V1.0 (Basic data)

**Scan frequency in Hz (worst case) at various average setting and MAX COL.-NO. settings in evaluation cases FIRST HIT,
MINIMAL DIST and EXTERN TEACH**

Average	1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768
MAXCOL-No. = 1	0,087	0,129	0,212	0,376	0,704	1,364	2,680	5,320	10,600	21,200	42,400	84,800	169,600	339,200	678,400	1356,800
MAXCOL-No. = 2	0,130	0,166	0,249	0,413	0,741	1,401	2,717	5,357	10,637	21,237	42,437	84,837	169,637	339,237	678,437	1356,837
MAXCOL-No. = 3	0,162	0,203	0,286	0,450	0,778	1,438	2,754	5,394	10,674	21,274	42,474	84,874	169,674	339,274	678,474	1356,874
MAXCOL-No. = 4	0,200	0,240	0,323	0,487	0,815	1,475	2,791	5,431	10,711	21,311	42,511	84,911	169,711	339,311	678,511	1356,911
MAXCOL-No. = 5	0,238	0,277	0,360	0,524	0,852	1,512	2,828	5,468	10,748	21,348	42,548	84,948	169,748	339,348	678,548	1356,948
MAXCOL-No. = 6	0,275	0,314	0,397	0,561	0,889	1,549	2,865	5,505	10,785	21,385	42,585	84,985	169,785	339,385	678,585	1356,985
MAXCOL-No. = 7	0,312	0,351	0,434	0,598	0,926	1,586	2,902	5,542	10,822	21,422	42,622	85,022	169,822	339,422	678,622	1357,022
MAXCOL-No. = 8	0,349	0,388	0,471	0,635	0,963	1,623	2,939	5,579	10,859	21,459	42,659	85,059	169,859	339,459	678,659	1357,059
MAXCOL-No. = 9	0,386	0,425	0,508	0,672	1,000	1,660	2,976	5,616	10,896	21,496	42,696	85,096	169,896	339,496	678,696	1357,096
MAXCOL-No. = 10	0,423	0,462	0,545	0,709	1,037	1,697	3,013	5,653	10,933	21,533	42,733	85,133	169,933	339,533	678,733	1357,133
MAXCOL-No. = 11	0,460	0,499	0,582	0,746	1,074	1,734	3,050	5,690	10,970	21,570	42,770	85,170	169,970	339,570	678,770	1357,170
MAXCOL-No. = 12	0,497	0,536	0,619	0,783	1,111	1,771	3,087	5,727	11,007	21,607	42,807	85,207	170,007	339,607	678,807	1357,207
MAXCOL-No. = 13	0,534	0,573	0,656	0,820	1,148	1,808	3,124	5,764	11,044	21,644	42,844	85,244	170,044	339,644	678,844	1357,244
MAXCOL-No. = 14	0,571	0,610	0,693	0,857	1,185	1,845	3,161	5,801	11,081	21,681	42,881	85,281	170,081	339,681	678,881	1357,281
MAXCOL-No. = 15	0,608	0,647	0,730	0,894	1,222	1,882	3,198	5,838	11,118	21,718	42,918	85,318	170,118	339,718	678,918	1357,318