LEICA **Q3** / **Q3 43**/ **Q3 MONOCHROM**

Video Specification. > Firmware 5.0.0

File Container	Resolution (Menu Wording)	Frame rate	Bit rate	YUV/bit	Comp.	Codec	Audio		crop *1	Sensor readout time [ms]	SCL4 Bat-tery	Digital Zoom for 28mm actual pixel size				Digital Zoom for 43mm actial pixel size						
							Codec	Sampling				35mm	50mm	75mm	90mm	60mm	75mm	90mm	120mm	150mm	HDMI output	Digital Zoom
MP4	**8K** 7680x4320 (16:9)	29.97p	300Mbps	4:2:0 10bit	Long-GOP	HEVC	AAC	48kHz/16bit	1,24	31,5	n/a	6150 x 3460	4304 x 2424	2880 x 1620	2400 x 1352	5504 x 3096	4410 x 2480	3674 x 2068	2760 x 1552	2204 x 1240	LV: 8K/4:2:0 8bit Recording: 4K/4:2:2 10bit Playback: 8K/4:2:0 8bit	Yes
		25.00p	300Mbps	4:2:0 10bit					1,24	34,6											-	
		23.98p	300Mbps	4:2:0 10bit					1,24	31,5												
	4K 3840x2160 (16:9)	59.94p	100Mpbs	4:2:0 10bit					1,24	15,6	●	3074 x 1732	2512 x 1212	1440 x 812	1200 x 676	2752 x 1548	2204 x1 240	1836 x 1036	1380 x 776	1102 x 620		
		50.00p	100Mpbs	4:2:0 10bit					1,24	15,0												
		29.97p	100Mpbs	4:2:0 8bit		H264			1,24	31,5												
		25.00p	100Mpbs	4:2:0 8bit					1,24	34,6												
		23.98p	100Mpbs	4:2:0 8bit					1,24	31,5												
	FHD 1920x1080 (16:9)	59.94p	28Mpbs	4:2:0 8bit					1,00	13,5		2542 x 1428	1780 x 1000	1190 x 672	992 x 560	2276 x 1280	1822 x 1024	1518 x 856	1140 x 644	910 x 512		
		50.00p	28Mpbs	4:2:0 8bit					1,00	14,3												
		29.97p	20Mpbs	4:2:0 8bit					1,00	13,5												
		25.00p	20Mpbs	4:2:0 8bit					1,00	14,3												
		23.98p	24Mpbs	4:2:0 8bit					1,00	13,5												
MOV	**C8K** 8192x4320 (17:9)	29.97p	300Mbps	4:2:0 10bit	Long-GOP	HEVC	LPCM	48kHz/24bit	1,16	31,5	n/a	6560 x 3460	4592 x 2424	3072 x 1620	2560 x 1352	5872 x 3096	4704 x 2480	3920 x 2068	2944 x 1552	2352 x 1240	LV: 8K/4:2:0 8bit (except HLG/L-Log) LV: C4K/4:2:2 10bit (HLG/L-Log) Recording: C4K/4:2:2 10bit Playback: 8K/4:2:0 8bit (except HLG/L-Log) Playback: C4K/4:2:2 10bit (HLG/L-Log)"	Yes
		25.00p	300Mbps	4:2:0 10bit					1,16	34,6											-	
		24.00p	300Mbps	4:2:0 10bit					1,16	36,0												
		23.98p	300Mbps	4:2:0 10bit					1,16	31,5												

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File Container	Resolution (Menu Wording)	Frame rate	Bit rate	YUV/bit	Comp.	Codec	Audio		crop *1	Sensor readout time [ms]	SCL4 Bat-tery	Digital Zoom for 28mm actual pixel size				Digital Zoom for 43mm actial pixel size						
							Codec	Sampling				35mm	50mm	75mm	90mm	60mm	75mm	90mm	120mm	150mm	HDMI output	Digital Zoom
MOV	**8K** 7680x4320 (16:9)	29.97p	300Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24	31,5	n/a	6150 x3 460	4304 x 2424	2880 x 1620	2400 x 1352	5504 x 3096	4410 x 2480	3674 x 2068	2760 x 1552	2204 x 1240	LV: 8K/4:2:0 8bit (except HLG/L-Log) LV: 4K/4:2:2 10bit (HLG/L-Log) Recording: 4K/4:2:2 10bit Playback: 8K/4:2:0 8bit (except HLG/L-Log) Playback: 4K/4:2:2 10bit (HLG/L-Log)	Yes
		25.00p	300Mbps	4:2:0 10bit					1,24	34,6											-	
		24.00p	300Mbps	4:2:0 10bit					1,24	36,0												
		23.98p	300Mbps	4:2:0 10bit					1,24	31,5												
	C4K 4096x2160 (17:9)	59.94p	600Mbps	4:2:2 10bit	ALL-I	H264			1,16	15,6	•	3280 x 1732	2296 x 1212	1536 x 812	1280 x 676	2936 x 1548	2352 x 1240	1960 x 1036	1472 x 776	1176 x 620	-	
		59.94p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	15,6												
		50.00p	600Mbps	4:2:2 10bit	ALL-I	H264			1,16	15,0												
		50.00p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	15,0												
		48.00p	600Mbps	4:2:2 10bit	ALL-I	H264			1,16	15,0											frame rate is changed to 24.00fps due to HDMI2.0 specification	
		48.00p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	15,0												
		47.95p	600Mbps	4:2:2 10bit	ALL-I	H264			1,16	15,8											frame rate is changed to 23.98fps due to HDMI2.0 specification	
		47.95p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	15,8												
		29.97p	400Mbps	4:2:2 10bit	ALL-I	H264			1,16	31,5											-	
		29.97p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	31,5												
		25.00p	400Mbps	4:2:2 10bit	ALL-I	H264			1,16	34,6												
		25.00p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	34,6												
		24.00p	400Mbps	4:2:2 10bit	ALL-I	H264			1,16	36,0												
		24.00p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	36,0												
		23.98p	400Mbps	4:2:2 10bit	ALL-I	H264			1,16	31,5												
		23.98p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,16	31,5												

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File Container	Resolution (Menu Wording)	Frame rate	Bit rate	YUV/bit	Comp.	Codec	Audio		crop *1	Sensor readout time [ms]	SCL4 Bat-tery	Digital Zoom for 28mm actual pixel size				Digital Zoom for 43mm actial pixel size						
							Codec	Sampling				35mm	50mm	75mm	90mm	60mm	75mm	90mm	120mm	150mm	HDMI output	Digital Zoom
MOV	**4K** 3840x2160 (16:9)	59.94p	600Mbps	4:2:2 10bit	ALL-I	H264			1,24	15,6	●	3074 x 1732	2152 x 1212	1440 x 812	1200 x 676	2752 x 1548	2204 x 1240	1836 x 1036	1380 x 776	1102 x 620	-	Yes
		59.94p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		50.00p	600Mbps	4:2:2 10bit	ALL-I	H264			1,24	15,0												
		50.00p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		48.00p	600Mbps	4:2:2 10bit	ALL-I	H264			1,24												frame rate is changed to 24.00fps due to HDMI2.0 specification	
		48.00p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		47.95p	600Mbps	4:2:2 10bit	ALL-I	H264			1,24	15,8											frame rate is changed to 23.98fps due to HDMI2.0 specification	
		47.95p	200Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		29.97p	400Mbps	4:2:2 10bit	ALL-I	H264			1,24	31,5											-	
		29.97p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		25.00p	400Mbps	4:2:2 10bit	ALL-I	H264			1,24	34,6												
		25.00p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		24.00p	400Mbps	4:2:2 10bit	ALL-I	H264			1,24	36,0												
		24.00p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													
		23.98p	400Mbps	4:2:2 10bit	ALL-I	H264			1,24	31,5												
		23.98p	150Mbps	4:2:0 10bit	Long-GOP	HEVC			1,24													

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File Container	Resolution (Menu Wording)	Frame rate	Bit rate	YUV/bit	Comp.	Codec	Audio		crop *1	Sensor readout time [ms]	SCL4 Battery	Digital Zoom for 28mm actual pixel size				Digital Zoom for 43mm actial pixel size						
							Codec	Sampling				35mm	50mm	75mm	90mm	60mm	75mm	90mm	120mm	150mm	HDMI output	Digital Zoom
MOV	**FHD** 1920x1080 (16:9)	119.88p	400Mbps	4:2:2 10bit	ALL-I	H264			1,19	6,8		2292 x 776	1604 x 544	1074 x 364	894 x 304	2052 x 696	1644 x 556	1370 x 464	1028 x 348	822 x 280	-	Yes
		119.88p	150Mbps	4:2:0 10bit	Long-GOP	HEVC				6,8												
		100.00p	400Mbps	4:2:2 10bit	ALL-I	H264				7,2												
		100.00p	150Mbps	4:2:0 10bit	Long-GOP	HEVC				7,2												
		59.94p	200Mbps	4:2:2 10bit	ALL-I	H264			1,00	13,5	●	2542 x 1428	1780 x 1000	1190 x 672	992 x 560	2276 x 1280	1822 x 1024	1518 x 856	1140 x 644	910 x 512		
		59.94p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				13,5												
		50.00p	200Mbps	4:2:2 10bit	ALL-I	H264				14,3												
		50.00p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				14,3												
		48.00p	200Mbps	4:2:2 10bit	ALL-I	H264				14,9											frame rate is changed to 24.00fps due to HDMI2.0 specification	
		48.00p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				14,9												
		47.95p	200Mbps	4:2:2 10bit	ALL-I	H264				13,5											frame rate is changed to 23.98fps due to HDMI2.0 specification	
		47.95p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				13,5												
		29.97p	200Mbps	4:2:2 10bit	ALL-I	H264				13,5											-	
		29.97p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				13,5												
		25.00p	200Mbps	4:2:2 10bit	ALL-I	H264				14,3												
		25.00p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				14,3												
		24.00p	200Mbps	4:2:2 10bit	ALL-I	H264				14,9												
		24.00p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				14,9												
		23.98p	200Mbps	4:2:2 10bit	ALL-I	H264				13,5												
		23.98p	100Mbps	4:2:0 10bit	Long-GOP	HEVC				13,5												
	FHD Slow Motion 1920x1080 (16:9)	Sensor: 119.88p Recording: 29.97p	100Mbps	4:2:0/10bit	Long-GOP	HEVC	no audio		1,19	6,8	●	2292 x 776	1604 x 544	1074 x 364	894 x 304	2052 x 696	1644 x 556	1370 x 464	1028 x 348	822 x 280	frame rate is Recording frame rate	
		Sensor: 100.00p Recording: 25.00p								7,2												

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							Codec	Sampling				35mm	50mm	75mm	90mm	60mm	75mm	90mm	120mm	150mm	HDMI output	Digital Zoom
MOV (ProRes)	**FHD** 1920x1080 (16:9)	59.94p	454Mbps	422HQ	-	ProRes	-		1,00	13,5	●	2542 x 1428	1780 x 1000	1190 x 672	992 x 560	2276 x 1280	1822 x 1024	1518 x 856	1140 x 644	910 x 512	-	Yes
		50.00p	378Mbps							14,3												
		29.97p	227Mbps							13,5												
		25.00p	189Mbps							14,3												
		24.00p	182Mbps							14,9												
		23.98p	181Mbps							13,5												

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