Overview







	RTC6	RTC5	RTC4
PC interface	PCI Express, Gigabit Ethernet	PCI, PCI Express	PCI Express, Ethernet
Standalone operation	yes (Ethernet variant only)	no	no
Remote interface	yes (Ethernet variant only)	no	no
Data streaming	yes (Ethernet variant only)	no	no
Scan head interface	SL2-100	SL2-100	XY2-100
Galvanic isolation	yes	yes	no
Number / Channels	2 / 2	2 / 2	2 / 3
Positioning resolution	20 bit	20 bit[1]	16 bit
Connector	9-pin D-SUB	9-pin D-SUB	25-pin D-SUB
Laser connector	15-pin D-SUB	15-pin D-SUB	9-pin D-SUB
***SCAN*ahead support** [2]	yes	no	no
Correction file format	ct5	ct5	ctb
Number of correction files 2D / 3D	8 / 8	4 / 4 [3]	2 / 1
Number of axes with processing on the fly (POF)	2 [4]	2	2
Value range virtual image field with POF	29 bit	24 bit	–
List memory	2^{23} (approx. 8 million)	2^{20} (approx. 1 million)	approx. 8,000
Recording channels / values	2 / 2^{24} or 4 / 2^{23}	2 / 2^{20} or 4 / 2^{19}	2 / 2^{15}
Maximum bitmap pixel frequency	800 kHz, optional 3,2 MHz	308 kHz	50 kHz
Analog outputs / Resolution	2 / 12 bit	2 / 12 bit	2 / 10 bit [5]
McBSP (OIE support)	yes (yes)	yes (no)	no (no)
RS232 interface	yes	yes	yes (Ethernet variant only)
Step motor control	yes	yes	yes (PCI Express variant only)
Laser synchronization	yes (n x 100 kHz)	yes	no
Laser delay resolution	$^1/_{64}$ µs	$^1/_2$ µs	1µs
Master / Slave	yes	yes	no
Sky writing modus	yes	yes	no
Date / Time / Fonts	yes	yes	no
Speed dependent laser control	yes	limited	no
IO ports 8 / 16 bit	yes	yes	yes

1) 16 bit at z-axis control
2) optional
3) half measurement data memory when using three or four correction files
4) higher accuracy through extrapolation of the encoder values
5) output pins shared with +5 V or LaserOn signal (configurable by solder jumper)