

Technical Specifications Quick Vision Stream Plus

Model		Quick Vision STREAM PLUS					
		QV STREAM PLUS 302 PRO	QV STREAM PLUS 302 PRO5	QV STREAM PLUS 404 PRO	QV STREAM PLUS 404 PRO5	QV STREAM PLUS 606 PRO	QV STREAM PLUS 606 PRO5
Measuring range	X [mm] x Y [mm] x Z [mm]	300 x 200 x 200		400 x 400 x 250		600 x 650 x 250	
Scales	Resolution [µm]	0,1					
	Type	Reflective linear encoders					
Driving method		DC servo motor and ball screw					
Guide method		Hard bearing					
Image processing unit		1/2" B/W CCD camera					
Illumination	Contour	blue LED					
	Surface	white/red/blue/green LED ; in STREAM mode cyan only					
	Programmable ring light	4 quadrants white/red/blue/green LED ; in STREAM mode cyan only					
Optical ring light		programmable magnification changer (Power Turret) 1x, 2x, 6x	programmable magnifications changer (Power Turret) 1x, 2x, 4x	programmable magnifications changer (Power Turret) 1x, 2x, 6x	programmable magnifications changer (Power Turret) 1x, 2x, 4x	programmable magnifications changer (Power Turret) 1x, 2x, 6x	programmable magnifications changer (Power Turret) 1x, 2x, 4x
Measuring accuracy [µm]	E1	X, Y	(1,5 + 0,003 L)				
		Z	(1,5 + 0,004)				
	E2	XY-Ebene	(2,0 + 0,004 L)				
Max. driving speed [mm/s]	X, Y	300		400			
		Z	300				
Stage glass size [mm]		399 x 271		493 x 551		697 x 758	
Max. workpiece mass [kg]		20		40		50	
Dimensions including stage	Stage H	859 x 951 x 1609		1027 x 1407 x 1778		1309 x 1985 x 1794	
mass [kg]	Main unit with stage	360		579		1450	
Conditions for temperature range in which the accuracy is warranted	Temperature range [°C]	20 ± 1					
	Optical conditions for image processing sensor	[2,5x objective (QV-HR2,5x or QV-SL 2,5x) and 1x-tubus lens (Power Turret)]					

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Model			QV STREAM PLUS 302		
			Standard	HYBRID Typ 1	HYBRID Typ 2
Measuring range (X x Y x Z) [mm]	Normal mode	Bildverarbeitung	300 x 200 x 200		
		Laser	--	176 x 200 x 200	162 x 195 x 200
	STREAM mode	Bildverarbeitung	300 x 200 x 200 (reduced when stage light is used: 300 x 200 x 50)		
Scales	Resolution [µm]		0.1		
	Type		Reflective linear encoders		
Driving method			DC servo motors and ball screws		
Guide method			Hard bearing		
Image processing unit			Progressive B/W CCD camera		
Illumination	High-intensity LED stage light		Continuous (normal mode): blue; stroboscopic (STREAM mode): blue		
	High-intensity LED coaxial light		Continuous (normal mode): red, green, blue, white (synthetic); stroboscopic (STREAM mode): cyan		
	High-intensity programmable LED ring light		Continuous (normal mode): red, green, blue, white (synthetic); stroboscopic (STREAM mode): cyan		
	Programmable LED ring light (standard)		--		
Optical system			Programmable power turret (1x, 2x, 6x)		
Measuring accuracy [µm]; L = measured length [mm]	E1	X, Y	(1.5 + 0.3 L/100)		
		Z (Video image)	(3.0 + 0.4 L/100)		
		Z (Laser)	--	(2.5 + 0.4 L/100)	
	E2	XY plane	(2.5 + 0.4 L/100)		
Repeatability [µm]	LAF (optional)	Z	0,4	--	
Max. driving speed [mm/sec]	X, Y	Vision Measuring	300		
		Laser	--	10	20
	Z		300		
Max. measuring speed in STREAM mode [mm/sec]			40		
Stage glass size [mm]	W x D		399 x 271		
Max. workpiece mass [kg]			20 (evenly distributed)		

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Dimensions [mm]	W x D x H	Main unit	784 x 860 x 1535	784 x 860 x 1598	
		Control unit	208 x 435 x 572		
Gewicht [kg]	Main unit		260 (without machine stand)		
	Control unit		28		
		Temperature range in which the accuracy is warranted [°C]		20±1	
		Air pressure [Mpa]		-- 0.4	
	Options	Laser Auto Focus	Factory installed	Available	Not available
			Retrofit	Not available	
		Probing system	Factory installed	Available	Not available
			Retrofit	Available	Not available