

Technical Specifications Quick Vision Hybrid Typ 1 Stream Plus

Model			Quick Vision HYBRID Typ 1 STREAM PLUS					
			Quick Vision HYBRID Typ 1 STREAM PLUS 302 PRO	Quick Vision HYBRID Typ 1 STREAM PLUS 302 PRO5	Quick Vision HYBRID Typ 1 STREAM PLUS 404 PRO	Quick Vision HYBRID Typ 1 STREAM PLUS 404 PRO5	Quick Vision HYBRID Typ 1 STREAM PLUS 606 PRO	Quick Vision HYBRID Typ 1 STREAM PLUS 606 PRO5
Measuring range [mm]	X x Y x Z	Image processing sensor	300 x 200 x 200		400 x 400 x 250		600 x 650 x 250	
		Laser sensor	180 x 200 x 200		280 x 400 x 250		480 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	Stage light		Blue LED					
	Coaxial light		white/res/blue/green LED ; in STREAM mode cyan only					
	Programmable ring light		4 quadrants white/red/blue/green LED; in STREAM mode cyan only					
Optical system			Programmable power turret 1x, 2x, 6x	Programmable power turret 1x, 2x, 4x	Programmable power turret 1x, 2x, 6x	Programmable power turret 1x, 2x, 4x	Programmable power turret 1x, 2x, 6x	Programmable power turret 1x, 2x, 4x
Laser sensor	Measuring principle		Double-Pinhole-Principle					
	Internal measuring range of sensor [mm]		±0,5					
	Vertical resolution [µm]		0,01					
	Sampling rate [Hz]		100 ~ 4000					
	Laser point size [µm]		ca. Ø 2					
	Max. scanning angle		Depending on workpiece surface; ca. ±15° at reflecting surfaces, ca. ±45° at diffuse surfaces					
Measuring accuracy [µm] Image processing sensor	E1	X, Y	(1,5 + 0,003 L)					
		Z	(1,5 + 0,004 L)					
Measuring accuracy [µm] Laser sensor	E2	XY plane	(2,0 + 0,004 L)					
		Z	(1,5 + 0,004 L)					
Max. driving speed [mm/s]	X, Y		300		400			
	Z		300					
Stage glass size [mm]	W x D		399 x 271		493 x 551		697 x 758	
Max. workpiece mass [kg]			20		40		50	

Mitutoyo: Specifications QV Hybrid Type 1 Stream Plus

Dimensions incl. stage	W x D x H	859 x 951 x 1609	1027 x 1407 x 1778	1309 x 1985 x 1794
mass [kg]	Main unit with stage	370	589	1460
Conditions for temperature range in which the accuracy is warranted [°C]	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)]		
	Measuring speed for laser sensor [mm/s]	10		

Products of this series come equipped with a safety system for the detection of potential function-impairing vibration to the measuring system. Activation of the security system leads to a time-delayed system shut-off. Uninterrupted functioning of the measuring device may be secured with a timely release of the security system by Mitutoyo service personnel.