

















































EyeVision Standard Command Set

Product related Instructionset overview



Category	Icon	Instruction Description	Befehlsbeschreibung	Standard Version	Windows	Linux	On request	Depends on Hardware	Comment
		Image Capture							
		Image Acquisition	Bildaufnahme	•	•	•			
		Camera Control	Kamerakontrolle	•	•	•			Special command for smart Camera control.
		Camera Settings	Kameraeinstellungen	•	•	•	•		Settings for connected cameras by wire like IEEE1394, USB, GigE, CL
		Calibration 2D (Calibration Normal necessary)		•	•	•			
		Coordinate adjustment, Calibration	Koordinatensystem, Kalibrierung	•	•	•			
		X-Y-Position adjustment	X-/Y-Lageausgleich	•	•	•			
		Filter							
		Advanced Filter operators	Advanced Filter Operatoren	•	•	•			Obsolete
		Classic Filter operators	Classic Filter Operatoren	•	•	•			Obsolete
		Scale grey values	Grauwerte verändern	•	•	•			
		Filter Operators on a circle	Ringfilter Operatoren	•	•	•			Obsolete
		Brightness Correction	Helligkeitskorrektur	•	•	•			
		Binary Filter							
		AND Filter		•	•	•			
		NOR Filter		•	•	•	•		
		OR Filter		•	•	•	•		
		XOR Filter		•	•	•	•		
		Bin Filter		•	•	•	•		
		Edges							
		Canny		•	•	•			
		Robert Kreuz		•	•	•			
		Sobel		•	•	•			
		MMX							
		Median		•	•	•			
		Misc							
		Copy Image Region		•	•	•			
		Fill Image		•	•	•			
		Free Matrix Filter		•	•	•			
		Bit Filter							
		Bit Binary Filter		•	•	•			
		Cut Bits Filter		•	•	•			
		Arithmetic Filter							
		Addition Filter		•	•	•			
		Division Filter		•	•	•			
		Multiplication Filter		•	•	•			
		Substraction Filter		•	•	•			
		Invert Filter		•	•	•			
		Min Filter		•	•	•			
		Max Filter		•	•	•			
		Wurzel		•	•	•			

Smoothing									
	Gauss		•	•	•				
	Median NM Filter		•	•	•				
Color Filter									
	Gray to RGB		•	•	•				
	RGB to Gray		•	•	•				
	16bit to 8bit		•	•	•				
	8bit to 16bit		•	•	•				
Transformation Filter									
	Rotation 90°		•	•	•				
	Rotation Frei		•	•	•				
	Horizontal Mirror Filter		•	•	•				
Interpreter Control									
	Time measurement, delay	Zeitmessung, Stoppuhr	•	•	•				
	Program flow control	Ablaufsteuerung	•	•	•				if, then, goto, mark
	Subroutine call	Unterprogramm ausführen	•	•	•				
	Variable access, modification, calculation	Variablenzugriff, Bearbeitung	•	•	•				
	Value evaluation	Werte bewerten	•	•	•				
	BASIC Interpreter tool	BASIC Interpreter	•	•	•				Programming in VB6 BASIC Syntax, with editor and Debugging capabilities
	external Program call	Externes Programm starten	•	•	•				
Object Detection									
	Grey correlation	Graubildkorrelation	•	•	•				
	Blob analysis, Object count	Bllobanalyse, Objektzählen	•	•	•				
Communication Basis									
	Check digital Input	Digitaler Eingang prüfen	•	•	•				
	Set digital output	Digitaler Ausgang setzen	•	•	•				
	Create / Write / Read to INI File	INI File schreiben / lesen	•	•	•				
	Display Register Values	Textausgabe auf Display	•	•	•				
	Global String	Textzeile senden	•	•	•				Data Exchange RS232, UDP, TCP/IP (Send / Receive)
	Serial Port send / receive	RS232 senden / empfangen	•	•	•				
	Image Transfer	Bildtransfer	•	•	•				Transfer Image and Overlay to any Network address
Measurement									
	Image Information	Bildinformation, Fokus	•	•	•				
	Area check	Flächentest	•	•	•				
	Calculate distance (Point – Line)	Abstand Punkt, Gerade	•	•	•				
	Calculate distance (Line – Line)	Abstand Geraden	•	•	•				
	Calculate cross section	Querschnitt berechnen	•	•	•				
	Measure gap width	Spaltbreite messen	•	•	•				
	Caliper hor. / vert.	Messschieber hor. / vert.	•	•	•				
	Caliper any direction	Messschieber frei	•	•	•				
Geometry									
	Point list operation	Punktlistenoperationen	•	•	•				
	Best fit circle	Kreis, Bestkreis	•	•	•				
	Point Operation set, calculate	Punkt bearbeiten	•	•	•				
	Best fit line	Gerade, Bestgerade	•	•	•				
	Calculate angle	Winkel berechnen	•	•	•				

Edge detection								
	Rectangle edge detection	Punkte tasten Rechteck	•	•	•			
	Circle edge detection	Punkte tasten Kreis	•	•	•			
	Riemann edge detection	Riemann Taster	•	•	•			
	Edge count on a line	Kantenzählen auf Gerade	•	•	•			
	Edge count on a circle	Kantenzählen auf Kreis	•	•	•			
Overlay								
	Overlay Arrow Plugin		•	•	•			
	Overlay Circle		•	•	•			
	Overlay Cross Plugin		•	•	•	•		
	Overlay Line Plugin		•	•	•			
	Overlay Square Plugin		•	•	•	•		
	EyeWeb		•	•	•			WebServer for EyeVision, available for all platforms (Windows, Linux, VCOS)