












Category Icon	Instruction Description	Befehlsbeschreibung	Professional Version	Windows		Linux	On request Depends on Hardware	Comment
Image Capture								
	Image Acquisition	Bildaufnahme	•	•	•			
	Asynchronous Image Acquisition	Asynchroner Bildzug	•	•	•			Asynchronous Image Acquisition, while one image is captured the last one can be operated
	Camera Control	Kamerakontrolle	•	•	•			Special command for smart Camera control.
	Camera Settings	Kamerasteuerungen	•	•	•	•		Settings for connected cameras by wire like IE-EE1394, USB, GigE, CL
Calibration								
	Calibration 2D (Calibration Normal necessary)		•	•	•			
	Coordinate adjustment, Calibration	Koordinatensystem, Kalibrierung	•	•	•			
	Lens distortion correction	Optikkorrektur	•	•	•			
	X-Y-Position adjustment	X-Y-Lageausgleich	•	•	•			
Filter								
	Advanced Filter operators	Advanced Filter Operatoren	•	•	•			Obsolete
	Classic Filter operators	Classic Filter Operatoren	•	•	•			Obsolete
	Remove Background	Hintergrund entfernen	•	•	•			
	Circle color change in/out	Kreisringbereich einfärben	•	•	•			
	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		•	•	•			
Morphology Filter								
	Erosion		•	•	•			
	Dilation		•	•	•			
	Opening		•	•	•			
	Closing		•	•	•			
	Morphologischer Gradient		•	•	•			
MMX								
	Contrast Bracing		•	•	•			
	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		•	•	•				
	Vertical Mirror Filter					•			
Matrix Filter									
	Prewitt					•			
	Bilateral					•			
	Harris					•			
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 Function call	Externe Funktion aufrufen	•	•	•				
	external Program call	Externes Programm starten	•	•	•				
Object Detection									
	Grey correlation	Graubildkorrelation	•	•	•				
	Blob analysis, Object count	Blobanalyse, Objektzählen	•	•	•				
	Contour match	Konturprüfung	•	•	•				
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
	JSON / XML (Read)	XML Read				•			
	JSON / XML (Write)	XML Write				•			
Measurement									
	Image Information	Bildinformation, Fokus	•	•	•				
	Area check	Flächentest	•	•	•				
	Determination of bending point	Krümmungspunkt bestimmen	•	•	•				
	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	•	•	•				
	Measure alignment pin	Passstiftmessung	•	•	•	•			
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	•	•	•				
	Move AOI for next function								
Edge detection									
	Contour tracking	Konturverfolgung	•	•	•				
	Rectangle edge detection	Punkte lasten Rechteck	•	•	•				
	Circle edge detection	Punkte lasten Kreis	•	•	•				
	Riehmänn edge detection	Riehmänn Taster	•	•	•				
	Edge count on a line	Kantenzahlen auf Gerade	•	•	•				

	Edge count on a circle	Kantenzählen auf Kreis	•	•	•			
Overlay								
	Overlay Arrow Plugin		•	•	•			
	Overlay Circle Plugin		•	•	•			
	Overlay Cross Plugin		•	•	•	•		
	Overlay Line Plugin		•	•	•			
	Overlay Square Plugin		•	•	•	•		
Statistic								
	Log Statistic values	Statistik führen	•	•	•			
Others								
	Reference correlation	Referenzkorrelation	•	•				
	Best fit ellipse		•	•				
	EyeVision as Active X Version	EyeVision as Active X Version	•	•				Run EyeVision Software as ActiveX slave
	EyeView DLL link version	EyeView as DLL Link Version	•	•				Display the image, overlay and transfer data
	EyeMultiView (for EyeVision 2.6 and 3.0)		•	•	•			Tool with display designer to show up to 16 images from smart cameras or PC systems.
	EyeWeb		•	•	•	•		WebServer for EyeVision, available for all platforms (Windows, Linux, VxOS)