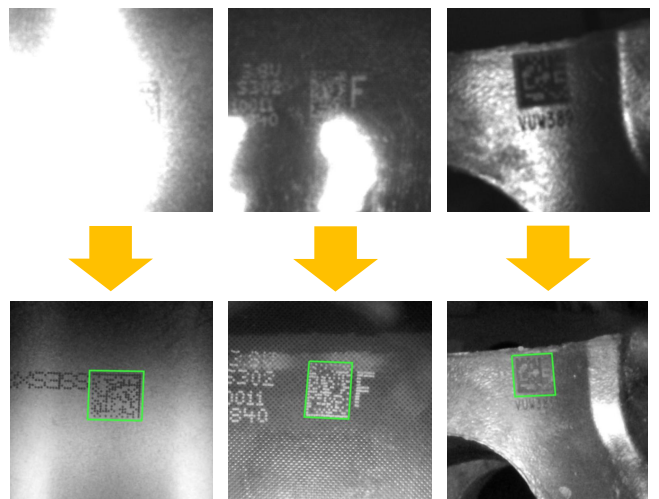# H296 Series

Handheld DPM Code Reader

H296 series is a new generation handheld DPM code reader combines with HEROJE's patented **HMAX™** decode algorithm and advanced multi-group illuminant design, provide premium experience of reading 1D, 2D label-based and challenging DPM (direct part mark) codes. Manufacturing environments in automotive, medical device, electronics, aerospace, and other industries require light weight, high performing and easy to use on reading shiny, high-reflective, glass, cylindrical and dark DPM codes.

Integrated diffuse and direct lighting enables superior image formation

Integrated multi-composite lighting (diffuse and direct lighting) delivers superior image formation to read dot peen, laser-etched, and label-based codes on challenging surfaces, such as shiny, high-reflective, glass, cylindrical and dark,

Patented HMAX™ algorithms deliver premium decode performance

HMAX™ algorithm is the innovative technological achievement of HEROJE, which adopts the dual-drive synchronous running of image acquisition and code decoding. For challenging applications which have requirements for decoding speed, the time-consuming decoding can be greatly reduced, and the premium decoding experience.

SCAN DEPTH OF FIELD	
Type	**Depth of Field**
1D-code 3mil	25 - 70mm
1D-code 5mil	11 - 85mm
1D-code 10mil	0 - 125mm
2D-code 5mil	26 - 65mm
2D-code 10mil	0 - 103mm
2D-code 20mil	5 - 150mm

TECHNICAL PARAMETERS

Model			H296-S-SR
Type			Standard Type
Light Receiver	Number of pixels		1280*1080
	Sensor		CMOS Image sensor (Global-shutter)
Light emitter	Light Source		Group controllable light source (direct red, white, blue light and diffuse red light)
	Pointer light source		Laser Aiming (650nm)
Focus adjustment			Fixed Focus
Reading specifications	Supported symbols	1D codes	Code39,Code93,Code128,EAN13,EAN8,I25,UPC-A,UPC-E,Code11,MIS,D25,M25,DataBar,CodeBar etc.
		2D codes	QRCode, PDF417, DataMatrix, MicroQR, Aztec, MaxiCode etc.
	Minimum resolution	1D codes	3 mil (0.0762 mm)
		2D codes	5 mil (0.127 mm)
	Reading depth of field		0 - 150mm
	Reading field of view		150x80mm (Typical example at 150mm)
I/O specifications	Serial communication	Communication standard	RS-232C
		Supported speed	2400、4800、9600、14400、19200、38400、57600、115200bps
		Supported protocols	Raw
	USB	Communication standard	Compliant with USB2.0High Speed, compatible with USB 1.1 Full Speed
		Supported protocols	USB-HID Keyboard, USB-COM
Environmental resistance	Enclosure rating		IP64
	Operating ambient temperature		-5℃ ~ +65 ℃
	Ambient storage temperature		-20°C ~ +70°C
	Operating ambient humidity		35%RH ~ 85%RH (non-condensing)
	Ambient storage humidity		35%RH ~ 85%RH (non-condensing)
	Ambient light		Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux
	Operating environment		No dust or corrosive gas present
	Vibration resistance		10 to 55 Hz Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions
Ratings	Power voltage		5V
	Electric current consumption		About 350 mA
Weight			130g