

Mobileye® 6 | Technical Specification Sheet

Mobileye® 6 Main Unit	
Physical Characteristics	
Length:	122mm
Width (without lens):	79mm
Height:	43mm
Weight:	200g
Color:	Black
Case Material:	Aluminum/plastic
Cable Length:	3m
Cable Diameter:	4.8mm
Electrical Characteristics	
Input Voltage:	12-28VDC
Input current:	12v → 220mA, 24v → 120mA
Environmental Characteristics	
Operating temperature:	-20°C to + 85°C
Storage temperature:	-40°C to + 105°C
Vision Sensor	
Vision Sensor:	Aptina MT9V024 (1/3") RCC
Array Format:	Total: 752H x 480V - Active pixels: 640H x 480V
Optical Format:	1/3"
Pixel Size:	6.0µm x 6.0µm
Dynamic Range:	>55dB linear; >100dB in HDR mode
Shutter type:	Global shutter—TrueSNAP™
Responsivity:	4.8 V/lux sec (550nm)
Angle of view:	38° (horizontal)
Aperture(F-number\FNO)	1.5
Focus range:	5m to infinity
AGC:	Automatic Gain Control of the image sensor for high dynamic range
Audio Buzzer	
SPL Minimum	86dB @ 10cm
EyeQ2® Vision Processor Main Features	
332 MHz clock rate running seven parallel processes	
Two MIPS24KF 32bit CPUs	
Eight 64bit Vision Computing Engines (VCE)	
Eight channels DMA	
64bit width 512KB on-chip SRAM	

EyeWatch™ Display Unit	
Physical Characteristics	
Diameter:	49mm
Depth:	24mm
Depth (leg closed):	29mm
Depth (leg open):	66mm
Weight:	46g
Color:	Black
Case Material:	Plastic
Cable Length:	3m
Cable Diameter:	3.1mm
Electrical Characteristics	
Input voltage:	5VDC
Input current:	500mA
Environmental Characteristics	
Operating temperature:	-20°C to +80°C
Storage temperature:	-40°C to +100°C
Operating humidity:	95%
Display Characteristics	
Viewing Angle:	100 Deg.
Display colors (backlighting):	LCD Full Color - 40 mcd (min)
Resolution:	128x128 pixels

Electrical Characteristics	
Input Voltage	12-28VDC
Input current (full operation)	12v → 360mA 24v → 180mA
Input current (Stand-By Max)	12v → 10µA 24v → 10µA
Max Power Consumption	5.2W

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