

# HAWK MV-4000

## SPECIFICATIONS AND OPTIONS



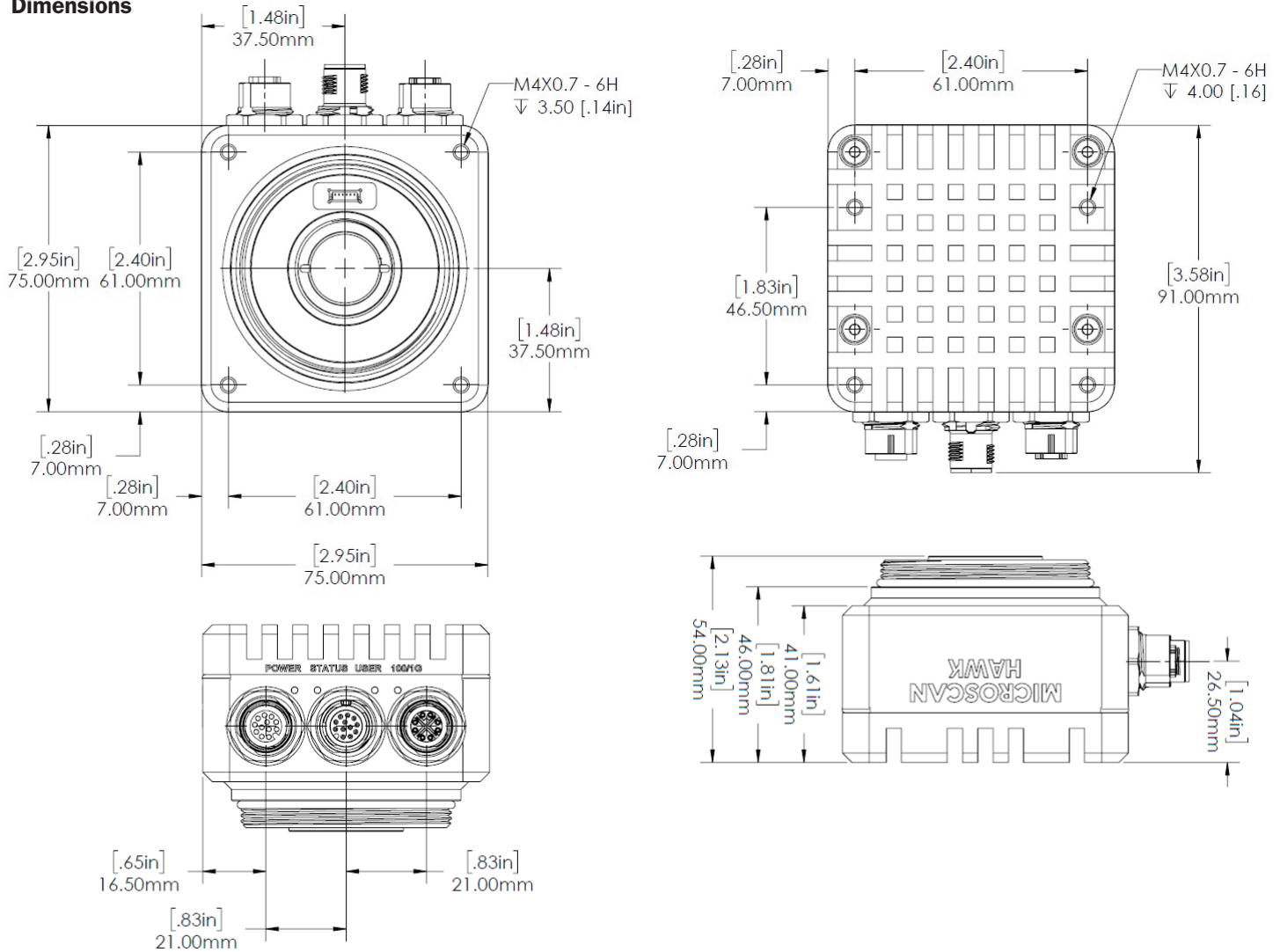
Length (without connectors): 75 mm (2.95") x 75 mm (2.9") ± 2 mm (0.079")  
 Width: 75 mm (2.95") ± 2 mm (0.079")  
 Depth (without lens): 54 mm (2.13") ± 2 mm (0.079")  
 Weight: 460.39 g (16.24 oz.)

C-Mount Optics

Model	HAWK MV-4000-03	HAWK MV-4000-03C	HAWK MV-4000-13	HAWK MV-4000-13C	HAWK MV-4000-20	HAWK MV-4000-20C	HAWK MV-4000-50	HAWK MV-4000-50C
<b>Sensor</b>								
<b>Make and Model</b>	ON Semiconductor – Python Family (NOIP1SN or NOIP1SE)				ON Semiconductor – Python Family (NOIP1SN or NOIP1SE)			
<b>Type</b>	CMOS							
<b>Geometry</b>	1/4"-Type		1/2"-Type		2/3"-Type		1"-Type	
<b>Format</b>	Monochrome	Color	Monochrome	Color	Monochrome	Color	Monochrome	Color
<b>Resolution (H x V)</b>	640 x 480		1280 x 1024		1920 x 1200		2592 x 2048	
<b>Frame Rate (Effective)</b>	Up to 240 FPS	Up to 120 FPS	Up to 75 FPS	Up to 32 FPS	Up to 42 FPS	Up to 20 FPS	Up to 21 FPS	Up to 8.5 FPS
<b>Pixel Size (H x V)</b>	4.8 μm x 4.8 μm							
<b>Gain Range</b>	0 to 19.4 dB							
<b>Shutter Speed</b>	50 μsec to 4 sec							
<b>Trigger Response</b>	External trigger to strobe output delay = 10 μs. Jitter = 1 - 2 μs.							
<b>Processor, Memory, Storage</b>								
<b>Processor</b>	Dual Core							
<b>Memory</b>	2GB RAM							
<b>Storage</b>	32GB							
<b>Interfaces</b>								
<b>Network</b>	Gigabit Ethernet							
<b>HMI</b>	VGA and USB 2.0 (for keyboard and mouse)							
<b>Digital I/O</b>	3 optocoupled inputs, 1 dedicated optocoupled trigger. 3 outputs (output 3 is used for external strobe when enabled).							
<b>Other</b>	Dedicated interface for Varioptic Caspian autofocus lens							
<b>Mechanical, Electrical, Environmental</b>								
<b>Lens Type</b>	C-Mount							
<b>Connectors</b>	M12 8-pin socket for Ethernet; M12 12-pin socket for power, digital I/O, M12 12-pin plug for VGA and USB							
<b>Weight</b>	460 g							
<b>Power Consumption</b>	450 mA @ 24VDC or 10.8W (typical)							
<b>Operating Temperature</b>	0° C to 50° C (32° F to 122° F)							
<b>Ventilation Requirement</b>	Natural convection							
<b>IP Rating</b>	IP67 (with lens cap)							

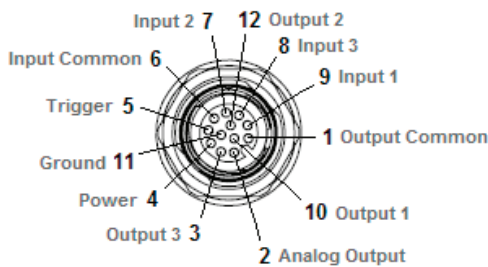
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## Dimensions

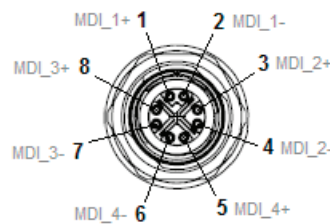


Note: Nominal dimensions shown. Typical tolerances apply.

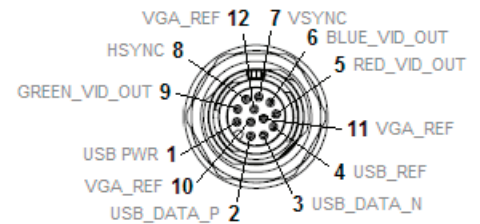
## Connectors



Digital I/O and Power Connector  
M12 12-Pin Socket



10/1000 Base-T Connector  
M12 8-Pin X-Coded Socket



VGA/USB Connector  
M12 12-Pin Plug

Архангельск (8182)63-90-72  
Астана +7(7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395) 279-98-46

Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56

Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Казахстан (772)734-952-31

Таджикистан (992)427-82-92-69