



Raptor

Specifications



Ver 1.6

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1 Raptor Introduction

There are two variants of Raptor:

Name	Key Differentiator
Raptor	-
Raptor-360	360° continuous pan rotation

2 Specifications

Visible Camera* configuration I	Visible 400-700 nm Resolution: 1280 x 720 Zoom : x40 + x2 digital, (total x80) continuous zoom HFOV : 60° WFOV – 1.5° NFOV – 0.75° DFOV
Visible Camera* configuration II	Visible 400-700 nm Resolution: 1920 x 1080 Zoom : x27 + x2 digital, (total x54) continuous zoom HFOV : 60° WFOV – 2.2° NFOV – 1.1° DFOV
Thermal Camera	LWIR uncooled 8-14 μm Resolution : 1280 x 720 Zoom : x8 digital, continuous zoom HFOV : 17.5° W.FOV - 2.2° D.FOV
Control Interface	RS-232
Video Interface	Micro-HDMI

Stabilization	< 50 μ rad
Power Requirement	15-32 VDC
Dimensions**	Diameter=100 mm Height=128 mm
Weight	640 grams
Temperature	-20°C [-4°F] to +55°C [+131°F]

* - Visible camera can have either configuration I or configuration II.

** - See Mechanical ICD for detailed dimensions.

2.1 Field of Regard

Name	Field of Regard
Raptor	Pan : 360° (non-continuous) Tilt : -45° to +135°
Raptor-360	Pan : 360° (continuous) Tilt : -45° to +135°

2.2 Power Consumption

Name	Power Consumption
Raptor	Typical 6 W
Raptor-360	Typical 9 W

2.3 850nm Illuminator – Option ***

Power	Spot Diameter at 1km Range
200mW	~1 m
5mW	~1 cm

*** - The illuminator is not an eye-safe device and is classified as “**class 3B laser product**”. Its operation requires the use of all safety measures. The device labeling is:

