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TECHNOLOGY GROUP

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Custom engineering
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- Critical and expedited services
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Roper Scientific MegaPlus 1.6i/10 BIT* at our website: ***Click HERE***

MegaPlus™ 1.6i



The MegaPlus1.6i is a high-performance digital camera that combines a spatial resolution of 1.6 million pixels, with 1024 gray levels for each pixel, to deliver superior quality images.

The CCD sensor provides a 1534 x 1024-pixel array with 9 µm square pixels for sensitive and accurate dimensional measurements.

With frame rates of up to 5.5 frames per second and a rugged, compact design, the MegaPlus1.6i is ideal for a wide range of demanding industrial applications.

SNAPSHOT

Sensitivity
1024 gray levels and minimal dark current provide the dynamic range and sensitivity required for demanding industrial applications.

Accuracy
The MegaPlus 1.6i's square pixels provide the accuracy required by metrology applications.

Ease of Use
With a comprehensive command set and bundled control software, the MegaPlus 1.6i provides the ease of use you expect from Redlake's MegaPlus cameras.

MegaPlus™...
for imaging excellence when quality counts

We Use Kodak Image Sensors

MegaPlus™ 1.6i

PERFORMANCE SPECIFICATIONS

CCD Imager

Imaging Device	Kodak KAF-1602, solid-state CCD, full-frame imager
Sensor Readout	Progressive scan
Pixel Size	9 µm (square format)
Resolution	1534 x 1024 pixels (1,570,816)
Pixel Spacing	9 µm, vertical and horizontal
Active Area	13.8mm horizontal x 9.2mm vertical
Fill Factor	100%

Image Quality

Image Uniformity	<2% non uniformity
Responsivity	9620 to 152770 8-bit counts/µW/ cm^2 – second @ 550 nm (depending on gain)
Bit Depth	10 bits
Dynamic Range	>65dB
Dark Current	<10pA/cm^2 @ 25°C

Camera Exposure and Control

Camera Output	Digital Video
Pixel Clock Rate	10 MHz
Frame Rate	Up to 5.5 fps
Exposure Settings	Mechanical shutter: 20 to 100,000 ms
Operation Modes	Trigger, Continuous, Control
Gain Settings	0 to 24dB in 2dB increments

Mechanical Description

Lens Mount	C or F mount
Dimensions	F Mount: 4.45"H x 3.9"W x 5.84"L (113.0 x 99.1 x 148.3mm)
	C Mount: 4.45"H x 3.9"W x 4.68"L (113.0 x 99.1 x 118.8mm)
Weight	3 lbs (1.26kg)

Environmental Requirements

Operating Temp	0° to 35°C (32° to 95°F), non-condensing
Vibration	3G, sinusoidal from 5 to 150 Hz
Shock	20G, non-operating

Power Requirements

Input Voltage	12 to 28 VDC
Power Consumption	16 watts, typical

CE ISO 9001 Registered

Note: Specifications are typical and subject to change. *I104-02*

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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We're here to make your life easier. How can we help you today?

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