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Current: Temperature



### Minolta and Cyclops 152A Infrared Camera

Unit Price	\$1,995.00
Your Price	<b>\$1,995.00</b>
Model	152A
Manufacturer	Minolta <a href="#">che</a>
Condition	<a href="#">Used</a>

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#### Product Overview

## Minolta and Cyclops 152A Infrared Thermal Camera

**Rent me for \$400 a month**

### HIGH TEMPERATURE MODEL CYCLOPS 152A

The Cyclops 152 is a ruggedized, dustproof portable thermometer built to withstand the most hostile industrial environments. The Cyclops 152A has analog (1mV/°) output.

- Temperature range: 600 to 3000°C/1100 to 5500°F
- Target size: 4.8mm at 1m/0.18in at 39.3in
- Spectral response: 0.8 to 1.1µm
- Protective rubber surfaces, lens hood, sealed switch and keypads greatly improves resistance to accidental damage.
- Additional external display of temperature, emissivity, mode and battery state.
- Out-of-range warnings given in viewfinder and external display.

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# Medium temperature, high precision, portable infrared thermometers



Cyclops 160B is a general purpose, medium temperature, portable infrared thermometer, designed for accurate measurement of temperatures in the range 200 to 1400°C/392 to 2552°F.

*High accuracy, portable  
thermometer*

## Key Features

- Digital signal processing
- High accuracy and repeatability
- Long term, drift free measurement
- Advanced spectral filtering to give enhanced performance
- Robust - ideal for industrial use
- Choice of datalogged outputs
- Bluetooth standard
- Range of optional accessories
- Continuous, Peak, Valley and Averaging modes
- Multi functional display
- Flexible user configuration

## Key Benefits

- No contamination, interference or damage to the process or material
- Accurate, reliable and stable temperature measurement to aid product quality control
- Maximize production rates and efficiency
- Proven, rugged casing ensures ability to withstand hostile environments
- Calibrated and traceable to National Standards - your guarantee of measurement accuracy - backed up by a support network which extends around the world

## Gallery

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*Cyclops display window*



*Dimensional information*



*Viewfinder image clearly indicating the measured temperature*

The measured temperature is displayed in four simultaneous modes: continuous, peak, mean and valley, with user selected mode for the viewfinder display. Accurate sighting is ensured by the clear, wide angle (9°) field of view and small, clearly defined (1/3°) measurement area. Focusing is variable from 1m to infinity, with close focus options available using auxilliary lenses.

Emissivity compensation is provided via the icon-based menu system.

The operating waveband has been carefully chosen to minimise errors due to uncertainty in emissivity and the effects of atmospheric vapour components.

The Cyclops 160B provide both wired RS232 serial communications, and also features user-friendly "Bluetooth" wireless communications.

Cyclops 160B is ideal for use in a wide range of industries and applications:

- Steel
- Glass
- Refractories
- Heat treatment
- Semi-conductors

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- Vacuum furnaces
- Metal mould surfaces
- Ceramics
- R & D laboratories
- Calibration laboratories as a transfer standard

**Flexible Operation** Three data output modes to the DL-1000 Datalogger software are available: Classic mode - logs a measurement on each trigger release  
Historic mode - logs continuous, average, peak and valley readings  
Burst mode - logs a stream of measurements to the DL-1000 whilst the trigger is held pressed approximately 30 to 35 readings/sec, up to a maximum of 999 readings.

**Data Logger DL-1000** The Pocket PC based Cyclops DL-1000 Data Logging System provides a fast and simple method for logging temperature readings taken using Land Cyclops portable infrared thermometers. If an iPAQ is being used, stored readings can then be transferred using Microsoft ActiveSync file transfer utility to a partnership PC. The logged data can then be used for further analysis and trending purposes. Datasheet PDS048 provides further details.

**Bluetooth Option** Wireless data logging to Bluetooth equipped iPAQ or PC/laptop with connections typically possible across separations of several metres.

**Accessories** A range of standard and optional accessories is available including: Close up lenses to allow temperature measurement of small target areas. Heat resistant jackets to provide protection against excessive heat and dust. A long eye relief (LER) eyepiece.

#### Temperatures

**Low Temperature (C):200High Temperature (C):1400**

**Low Temperature (F):392High Temperature (F):2552**

#### Technical Details

200 to 1400°C/392 to 2552°F (operating)

#### Measurement range:

200 to 1300°C/392 to 2372°F (specified)

#### Indication:

4-digit LCD in viewfinder; external backlit LCD

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	display
<b>Measuring modes:</b>	Continuous, Average, Peak, Valley
<b>Data logging:</b>	To iPAQ or laptop/PC running DL-1000v2 software. Wired or wireless Bluetooth connection
<b>Data logging modes:</b>	Classic, Historical, Burst
<b>Optical System:</b>	9° field of view; 1/3° measurement area (180:1 to 98% energy); eyepiece adjustable -3.75 to +2.5 diopters
<b>Focusing Range:</b>	1m/39.3in to infinity 450 to 620mm/17.7 to 24.5in with optional 215mm/8.5in fixed focus close-up lens
<b>Target Size:</b>	5mm at 1m/0.19in at 39.3in 1.8mm/0.07in 0.4mm/0.016in with optional close-up lens
<b>Spectral response:</b>	1.6µm with advanced spectral filtering
<b>Emissivity adjustment:</b>	0.10 to 1.20 in 0.01 step graduations
<b>Response time:</b>	30ms
<b>Display update time:</b>	0.5s
<b>Accuracy:</b>	≤0.25% +2°C
<b>Repeatability:</b>	≤1°C
<b>Operating temp. range:</b>	0 to 50°C (32 to 122°F)
<b>Power requirement:</b>	One MN160476 LR61/PP3 battery
<b>Output:</b>	RS232C. Bluetooth
<b>Weight:</b>	0.821kg/1.8lb
<b>Sealing:</b>	IP40
<b>Standard accessories:</b>	Lens cap, protection window/filter, battery, wrist strap
<b>Optional accessories:</b>	Close-up lenses, Data Logger DL-1000, HP iPAQ, rugged waterproof carry case, Long eye relief (LER) eyepiece