

With New Laser  
Technology



# RAYNGER MX SERIES

## The Professional's Choice

The new Raynger MX family of handheld, infrared thermometers takes noncontact temperature measurement technology into the future. Designed for ease-of-use, unmatched performance, and featuring new laser technology, the MX is the professional's tool of choice.

## Enhanced Features and Accuracy

The MX measures a temperature range of -30 to 900°C (-25 to 1600°F) and features a unique 16-point laser sighting circle with a center aiming point that defines the area you are measuring. Improved optics (D:S 60:1) allow temperature measurement from any distance, and the bar graph display automatically charts the last 10 temperature points using maximum and minimum temperature values to establish the range. The locking trigger allows continuous temperature measurement.

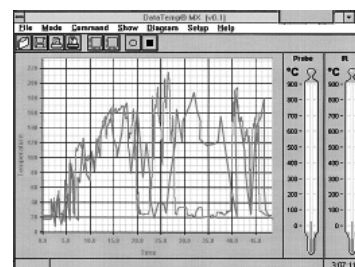
The MX2 is the standard model. Just point, shoot, and read. The MX4 is the high-performance model that accepts K & J thermocouples, thermistor (NTC), power input, and allows for data output. The MX4+ package includes Windows™-compatible data management software, a thermocouple K probe, an RS232 computer cable, and a plug-in power supply. A useful table of 30 preset material emissivity listings is easily accessed on both the MX4 and MX4+. Simply scroll to locate the correct material.

## Software

With Raytek graphing software, you can use your computer to organize, display, and print temperature and time data. The software also includes the ability to store data points, continuous or manual single-point recording, programmable time intervals, temperature scales and limits, built-in material table of emissivity values, customizable log locations, and displays both contact and infrared temperatures.



*MX4+ Package includes: Windows-compatible data management software • thermocouple K probe • RS232 computer cable • plug-in power supply.*



*Windows-compatible MX4+ software graphs both contact and noncontact temperature points.*

## RAYNGER MX PORTABLE NONCONTACT THERMOMETERS

### FEATURES

|                                                                                       | MX2 | MX4 | MX4+ |
|---------------------------------------------------------------------------------------|-----|-----|------|
| Adjustable emissivity                                                                 | ✓   | ✓   | ✓    |
| On-board emissivity table                                                             |     | ✓   | ✓    |
| 16-point laser circle spot; meets IEC Class 2 & FDA Class II requirements             | ✓   | ✓   | ✓    |
| Audible/visible High alarm                                                            | ✓   | ✓   | ✓    |
| Audible/visible Low alarm                                                             |     | ✓   | ✓    |
| MAX and MIN temperature                                                               | ✓   | ✓   | ✓    |
| DIF and AVG temperature                                                               |     | ✓   | ✓    |
| Bar graph display                                                                     | ✓   | ✓   | ✓    |
| Data output: RS232 or 1 mV per degree (°C or °F)                                      |     | ✓   | ✓    |
| 100 points of data logging                                                            |     | ✓   | ✓    |
| Windows-compatible Data Graphing Software                                             |     |     | ✓    |
| Power Supply (110 or 220V), RS232 Computer Cable, 1.5 m (60 in), K thermocouple probe |     |     | ✓    |

### OPTIONS / ACCESSORIES

- Windows-based Data Graphing Software\*
- RS232 computer cable\*
- Thermocouple K probe\*
- Plug-in Power Supply (110 or 220V)\*
- Thermistor (NTC) probe
- Portable thermal printer
- Calibration Certification
- Soft pouch

\*Standard with Raynger MX4+

### SPECIFICATIONS

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Temperature range       | -30 to 900°C (-25 to 1600°F)                          |
| Accuracy*               | ±1% of reading or ±1°C (±2°F), whichever is greater   |
| Repeatability*          | ±0.5% of reading or ±1°C (±2°F), whichever is greater |
| Response time           | (95%) 250 mSec                                        |
| Spectral response       | 8 to 14 μm, thermopile detector                       |
| Display resolution      | tenth degree reading up to 900°C (0.2°F to 999.8°F)   |
| Ambient operating range | 0 to 50°C (32 to 120°F)                               |
| Relative humidity       | 10-95% RH noncondensing @ up to 30°C (86°F)           |
| Storage temperature     | -20 to 50°C (-4 to 120°F) without battery             |
| Power                   | 2 AA batteries, DC power for MX4 and MX4+             |
| Tripod mount            | 1/4-20 UNC                                            |
| Dimensions              | 200 x 170 x 50 mm (7.9 x 6.7 x 2 inches)              |
| Weight                  | 480 g (1 lb. 6 oz)                                    |

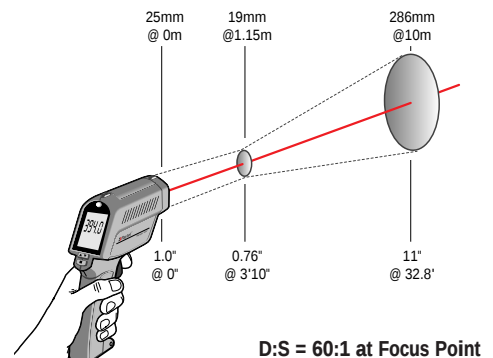
\*only at 23°C (73°F)



### Graphic Display

View more information at a glance. The MX automatically creates a graphic display of the last 10 temperature points measured using the maximum and minimum temperature values to establish the range.

### Target Spot Sizes and Distances



### Applications

The rugged, ergonomic MX has many uses.

- check for hot spots in electrical panels, circuit breakers, generators, and gearboxes
- monitor supply and return registers, air stratification, and duct leakage
- monitor temperatures of gasoline and diesel engine cylinders and railroad axles and bearings
- food preparation and storage

Specifications subject to change without notice. ©1998 Raytek Corporation MX0298, Rev. B, 02/98

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