

# High Speed IR Detectors

## For Use with DP1511, DP1521 and DP1531 Monitors

OS1512

**\$1495**



- ✓ General Purpose
- ✓ 10 msec Time Constant
- ✓ Ranges to 3700°C (6692°F) Available



OS1512-R1, \$1495, shown smaller than actual size.

OS1532

**\$2995**

- ✓ Very High Speed
- ✓ Fast 0.3 msec Time Constant
- ✓ Ranges to 2150°C (3900°F) Available
- ✓ Rugged Construction
- ✓ Wide Range of Temperature Measurements
- ✓ Optional Light Projection of Target Area for Pin Point Accuracy
- ✓ Air Purge Option



OS1512-R1, \$1495, infrared detector shown with DP1511 general purpose single-channel thermal monitor, \$3040, sold separately, see page J-121.

The OS1512 and OS1532 fixed distance pyrometers are designed specifically to be interfaced with DP1511, DP1521, and DP1531 monitors.

The OS1512 detector can be used with either the single-channel DP1511 monitor or the 4-channel DP1521 monitor. It is offered in a variety of field of view patterns as well as temperature ranges, and has the ability to be used with backlighting. (Backlighting defines

the exact area being measured by projecting an image of light at a particular point on the measurement object.)

The OS1532 detector is designed to be used with the DP1531 high speed monitor. It is offered in a variety of field of view patterns and temperature ranges, and has the ability for backlighting. It is used in applications requiring exceptionally fast response times (down to 0.3 msec) which are unattainable

by conventional temperature measurement methods.

The OS1512 and OS1532 detectors are available in various temperature ranges with specific spot sizes at specific target distances. See ordering matrix on next page for details. They are intended for fixed mount applications where the pyrometer location relative to the object being measured will be constant.

OS1512-R1, \$1495, shown smaller than actual size.



### OS1512 Ranges (General Purpose)

Range Code	Add'l Cost	Temperature Range	Spectral Response	Detector Type	Spot Size at Distance to Target
R1	N/C	70 to 210°C (158 to 410°F)	1.8 to 3.0 microns	Lead sulfide	9.7" @ 120"
R2	N/C	120 to 360°C (248 to 680°F)	1.8 to 3.0 microns	Lead sulfide	2.35" @ 120"
R3	\$1000	200 to 600°C (392 to 1112°F)	4.5 to 5.15 microns	Lead selenide	9.7" @ 120"
R4	\$1000	800 to 2400°C (1472 to 4352°F)	4.5 to 5.15 microns	Lead selenide	2.35" @ 120"
R5	N/C	85 to 255°C (185 to 491°F)	1.8 to 3.0 microns	Lead sulfide	0.10" @ 2.0"
R6	N/C	100 to 300°C (212 to 572°F)	1.8 to 3.0 microns	Lead sulfide	0.17" @ 12.0"
R7	\$1000	2250 to 3000°C (4082 to 5432°F)	4.5 to 5.15 microns	Lead selenide	0.17" @ 12.0"
R8	\$1000	1235 to 3700°C (2255 to 6692°F)	4.5 to 5.15 microns	Lead selenide	0.49" @ 28.0"

### OS1532 Ranges (High Speed)

Range Code	Add'l Cost	Temperature Range	Spectral Response	Detector Type	Spot Size at Distance to Target
R1	N/C	90 to 215°C (190 to 419°F)	1.8 to 3.0 microns	Lead sulfide	9.7" @ 120"
R2	N/C	175 to 390°C (347 to 734°F)	1.8 to 3.0 microns	Lead sulfide	2.35" @ 120"
R3	\$1000	400 to 1200°C (752 to 2192°F)	4.5 to 5.15 microns	Lead selenide	9.7" @ 120"
R4	\$1000	600 to 1800°C (1112 to 3272°F)	4.5 to 5.15 microns	Lead selenide	2.35" @ 120"
R5	N/C	115 to 260°C (239 to 500°F)	1.8 to 3.0 microns	Lead sulfide	0.10" @ 2.0"
R6	N/C	150 to 335°C (302 to 635°F)	1.8 to 3.0 microns	Lead sulfide	0.17" @ 12"
R7	\$1000	400 to 1200°C (752 to 2192°F)	4.5 to 5.15 microns	Lead selenide	0.40" @ 12.0"
R8	\$1000	700 to 2100°C (1292 to 3812°F)	4.5 to 5.15 microns	Lead selenide	0.17" @ 12"

### Sensors

**MOST POPULAR MODEL HIGHLIGHTED!**

### Specifications

**Ambient Temperature:**  
10 to 50°C (50 to 130°F)

**Dimensions:**  
68 H x 102 W x 282 mm D  
(2.66 x 4.0 x 11.12")

**Weight:** 1.8 kg (4 lb)

### To Order (Specify Model Number)

Model No.	Price	Description
OS1512-(* )	\$1495	General purpose fast detector
OS1532-(* )	2995	High speed fixed distance detector

(\* ) Insert range code from tables above.

Other temperature ranges and focal options available. Consult OMEGA for details.

Comes with complete operator's manual.

**Ordering Example:** OS1532-R8, high speed detector, 700 to 2100°C (1292 to 3812°F) temperature range, \$2995 + 1000 = **\$3995**.

**Note:** OS1512, OS1532 do not operate stand-alone. They operate with DP1511 and DP1521, and DP1531 monitors.

### Displays

See DP1500 Series for Specifications (page J-121)



### Backlight Source

See OS1500-BLS for Specifications (page J-124)



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