



Our nomenclature for identifying detector assemblies is shown below. For many applications the detector/filter/input optic configuration best suited for the measurement is specified in the application section.

Example:

A detector for making photopic measurements with an ILT1700 would be specified as "SED033/Y/W" and found in photometry measurement applications section on page xx.

SED specifies detector housing style and meter connection (xxL for ILT1400 series, xxD for ILT1700 series)

033 specifies the type of sensor used. In the above example, the 33mm² silicon photodiode is indicated.

/Y specifies filter(s) used. In the example above, the Y refers to our photopic filter

/W specifies the input optic used for illuminating the detector. In our example, the W indicates our wide-eye diffuser.

The **/U** following the part numbers below indicates an UNCALIBRATED sensor. Detector kits such as SED033/Y/W include a calibration therefore the /U is not noted in the part number. The SED and SEL type detector housings are made of black anodized aluminum, with female filter threads (1¼-24), a tripod mount (¼-20), and two end mounts (#8-32). Only these housings allow for filter selection/swapping and only the SED and SEL type housings allow for underwater modification. All underwater modified SED or SEL detectors require the W wide-eye diffuser in addition to any other filters. The SC### detectors are in a 112 x 17 x 16 mm wand style housing, The XR### are in a 12.5 x 42 mm dia. housing, the SP### are in a 121 x 19 mm dia. pen style housing. These three versions do not have removable, swappable filters and cannot be made waterproof.

Components>

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B A S E D E T E C T O R S

PART NUMBER/DESCRIPTION	SPECTRAL RANGE	SPECIFICATIONS	SPECTRAL RESPONSE	FOOTPRINT
SCD110/U , <i>ILT1700 Illuminance Probe</i>	400-700 nm Photopic	5.8 mm ² active area silicon detector with built in CIE VIS response filter in wand style detector housing. Dimensions: 112 x 17 x 16 mm. ☒	page 117-C1	page 122-D
SCL110/U , <i>ILT1400 Illuminance Probe</i>				
SCD144/U , <i>ILT1700 Bilirubin Phototherapy Probe</i>	422-488 nm 450 nm peak	5.8 mm ² active area silicon detector with built in filter in wand style detector housing. Dimensions: 112 x 17 x 16 mm. ☒	page 119-A2	page 122-D
SCL144/U , <i>ILT1400 Bilirubin Phototherapy Probe</i>				
SCD145/U , <i>ILT1700 Phototherapy Probe</i>	360-525 nm 450 nm peak	5.8 mm ² active area silicon detector with built in filter in wand style detector housing. Dimensions: 112 x 17 x 16 mm. ☒	page 119-B1	page 122-D
SCL145/U , <i>ILT1400 Phototherapy Probe</i>				
SED005/U , <i>ILT1700 UV-Visible GaAsP Detector</i>	250-675 nm 610 nm peak	5.2 mm ² detector with quartz window. Dimensions: 20 x 42 mm dia. ☒	page 106-A1	page 122-A
SEL005/U , <i>ILT1400 UV-Visible GaAsP Detector</i>				
SUD005/U or SUL005/U , <i>underwater version</i>				
SED007/U , <i>ILT1700 IR InGaAs Detector</i>	850-1700 nm 1455 nm peak	7 mm ² detector with spectral range from 850-1700nm. Dimensions: 20 x 42 mm dia. ☒	page 106-A2	page 122-A
SEL007/U , <i>ILT1400 IR InGaAs Detector</i>				
SUD007/U or SUL007/U , <i>underwater version</i>				
SED008/U , <i>ILT1700 Silicone Carbide Detector</i>	200-400 nm 270 nm peak	0.08 mm ² detector 20 x 42 mm dia. ☒	page 106-B1	page 122-A
SUD008/U , <i>underwater version</i>				
SED033/U , <i>ILT1700 Broadband Silicon Detector</i>	200-1100 nm 950 nm peak	33 mm ² silicon detector with quartz window. Dimensions: 20 x 42 mm dia. ☒	page 106-B2	page 122-A
SEL033/U , <i>ILT1400 Broadband Silicon Detector</i>				
SUD033/U or SUL033/U , <i>underwater version</i>				
SPM068/U , <i>ILT1700 Photomultiplier Detector</i>	250-650 nm	Ultra-sensitive photomultiplier tube with integral power supply. Other spectral ranges available – Contact our knowledgeable sales staff for more information. Dimensions: 162 mm x 42 mm dia. ☒	page 108-C2	page 122-F
SPM068-1/U , <i>ILT1700 Photomultiplier Detector</i>	300-800 nm			
SED100/U , <i>ILT1700 Broadband Silicon Detector</i>	200-1100 nm 950 nm peak	100 mm ² (1 cm ²) silicon detector with quartz window. Dimensions: 20 x 42 mm dia. ☒	page 106-C1	page 122-A
SEL100/U , <i>ILT1400 Broadband Silicon Detector</i>				
SUD100/U or SUL100/U , <i>underwater version</i>				

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PART NUMBER/DESCRIPTION	SPECTRAL RANGE	SPECIFICATIONS	SPECTRAL RESPONSE	FOOTPRINT
SED185/U , <i>ILT1700 Gold Cathode Detector</i> SEL185/U , <i>ILT1400 Gold Cathode Detector</i> SUD185/U or SUL185/U , <i>underwater version</i>	160-240 nm 185 nm peak	50 mm ² active area Gold Cathode Vacuum photodiode with quartz window (visible blocking). Good stability in high ozone / UV environment. Dimensions: 53 x 42 mm dia. ☒	page 106-C2	page 122-B
SED220/U , <i>ILT1700 Solar Blind Detector</i> SEL220/U , <i>ILT1400 Solar Blind Detector</i> SUD220/U or SUL220/U , <i>underwater version</i>	160-320 nm 220 nm peak	50 mm ² active area Vacuum photodiode with fused silica window (visible blocking). Dimensions: 53 x 42 mm dia. ☒	page 107-A1	page 122-B
SED240/U , <i>ILT1700 Solar Blind Detector</i> , SEL240/U , <i>ILT1400 Solar Blind Detector</i> SUD240/U or SUL240/U , <i>underwater version</i>	185-320 nm 240 nm peak	50 mm ² active area Vacuum photodiode with quartz window (visible blocking). Dimensions: 53 x 42 mm dia. ☒	page 107-B1	page 122-B
SED320/U , <i>ILT1700 UV Gallium Nitride Detector</i> SEL320/U , <i>ILT1400 UV, Gallium Nitride Detector</i> SUD320/U or SUL320/U , <i>underwater version</i>	200-320 nm flat	0.076 mm ² active area gallium nitride detector. Provides uniform sensitivity from 200 to 320 nm. Dimensions: 20 x 42 mm dia. ☒	page 107-C1	page 122-A
SED324/U , <i>ILT1700 Broadband Silicone Detector</i> SEL324/U , <i>ILT1400 Broadband Silicone Detector</i> SUD324/U or SUL324/U , <i>underwater version</i>	320-1100 nm 960 nm peak	Large 324 mm ² active area silicone detector. Dimensions: 20 x 42 mm dia. ☒	page 108-A1	page 122-A
SED365/U , <i>ILT1700 UV Gallium Nitride Detector</i> SEL365/U , <i>ILT1400A UV Gallium Nitride Detector</i> SUD365/U or SUL365/U , <i>underwater version</i>	200-365 nm flat	0.076 mm ² active area gallium nitride detector. Provides uniform sensitivity from 200 to 365 nm. Dimensions: 20 x 42 mm dia. ☒	page 108-A2	page 122-A
SED623/U , <i>ILT1700 Thermopile Detector</i> SEL623/U , <i>ILT1400 Thermopile Detector</i>	200-4200 nm flat > 700 nm	4 mm ² thermopile detector with quartz window. Dimensions: 60 x 42 mm dia. ☒	page 108-B1	page 122-C
SED624/U , <i>ILT1700 Thermopile Detector</i> SEL624/U , <i>ILT1400 Thermopile Detector</i>	0.2-40 micron flat > 1.0 micron	4 mm ² thermopile detector with KBr window. Dimensions: 60 x 42 mm dia. ☒	page 108-B2	page 122-C
SED625/U , <i>ILT1700 Thermopile Detector</i> SEL625/U , <i>ILT1400 Thermopile Detector</i>	0.2-15 micron flat > 1.0 micron	4 mm ² thermopile detector with BaF2 window. Dimensions: 60 x 42 mm dia. ☒	page 108-C1	page 122-C

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PART NUMBER/DESCRIPTION	SPECTRAL RANGE	SPECIFICATIONS	SPECTRAL RESPONSE	FOOTPRINT
SPD024F/U , <i>ILT1700 Laser Power / Irradiance Probe</i>	400-1064 nm flat	1.2 mm ² silicon detector in pen-like housing has a 5.5 mm aperture opening with built in filter and integrating sphere. Dimensions: 121 mm x 19 mm dia. ☒	page 115-B1	page 122-E
SPL024F/U , <i>ILT1400 Laser Power / Irradiance Probe</i>				
SPD024Y/U , <i>ILT1700 Photopic Pen Probe</i>	400-700 nm Photopic	1.2 mm ² silicon detector in pen-like housing has a 5.5 mm aperture opening with built in filter and integrating sphere. Dimensions: 121 mm x 19 mm dia. ☒	page 115-B2	page 122-E
SPL024Y/U , <i>ILT1400 Photopic Pen Probe</i>				
SPD025F/U , <i>ILT1700 Radiance Pen Probe</i>	400-1064 nm flat	1.2 mm ² silicon detector in pen-like housing with radiance optics and built in filter. Dimensions: 121 mm x 19 mm dia. ☒		page 122-E
SPL025F/U , <i>ILT1400 Radiance Pen Probe</i>				
SPD025Y/U , <i>ILT1700 Contact Luminance Pen Probe</i>	400-700 nm Photopic	1.2 mm ² silicon detector in pen-like housing with luminance optics and built in filter. Dimensions: 121 mm x 19 mm dia. ☒	page 117-C2	page 122-E
SPL025Y/U , <i>ILT1400 Contact Luminance Pen Probe</i>				
SSD001A/U , <i>ILT1700 Super Slim UV Probe</i>	260-400 nm 370 nm peak	0.64 mm ² silicon detector with built in UV filter. Super slim. Dimensions: 29 x 38 mm, only 2 mm thick. ☒	page 116-C1	page 122-E
SSL001A/U , <i>ILT1400 Super Slim UV Probe</i>				
XRD050/U , <i>ILT1700 Spot Cure Probe</i>	320-400 nm 365 nm peak	33 mm ² silicon detector with 0.5 mm limiting aperture in 12.5 mm X 42 mm dia. housing. ☒	page 116-C2	page 123-B
XRL050/U , <i>ILT1400 Spot Cure Probe</i>				
XRD140A/U , <i>ILT1700 Photoresist Cell</i>	320-475 nm 410 nm peak	33 mm ² silicon detector with built in filter in 12.5 mm X 42 mm dia. housing. ☒	page 117-A1	page 123-B
XRL140A/U , <i>ILT1400 Photoresist Cell</i>				
XRD140B/U , <i>ILT1700 Photoresist Cell</i>	326-401 nm 365 nm peak	33 mm ² silicon detector with built in filter in 12.5 mm X 42 mm dia. housing. ☒	page 117-B1	page 123-B
XRL140B/U , <i>ILT1400 Photoresist Cell</i>				
XRD340A/U , <i>ILT1700 Attenuated Photoresist Probe</i>	320-475 nm 410 nm peak	33 mm ² silicon detector with built in filter in 12.5 mm X 42 mm dia. housing. ☒	page 117-A2	page 123-B
XRL340A/U , <i>ILT1400 Attenuated Photoresist Probe</i>				
XRD340B/U , <i>ILT1700 Attenuated Photoresist Probe</i>	326-401 nm 365 nm peak	33 mm ² silicon detector with built in filter in 12.5 mm X 42 mm dia. housing. ☒	page 117-B2	page 123-B
XRL340B/U , <i>ILT1400 Attenuated Photoresist Probe</i>				

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PART NUMBER/DESCRIPTION	SPECTRAL RANGE	SPECIFICATIONS	SPECTRAL RESPONSE	FOOTPRINT
XRD140T254/U , <i>ILT1700 Germicidal Probe</i>	360-370 nm, 365 nm peak	33 mm ² silicon detector with built in narrow band filter in 12.5 mm X 42 mm dia. housing. ☒	page 115-A1	page 123-B
XRL140T254/U , <i>ILT1400 Germicidal Probe</i>				
XRD140T365Q2/U , <i>ILT1700 NB 365 nm Probe</i>	360-370 nm 365 nm peak	33 mm ² silicon detector with built in narrow band and 100x attenuation filters in 12.5 mm X 42 mm dia. housing. ☒		page 123-B
XRL140T365Q2/U , <i>ILT1400 NB 365 nm Probe</i>				
XRD140/U , <i>ILT1700</i> <i>Unfiltered low profile sensor for custom applications</i>	Varies by filter selection	33 mm ² silicon cell in 13 x 42 mm dia. housing can be combined with IL filters and diffusers to make custom low profile sensors. ie. NS405 filter with teflon diffuser can be mounted in XRL housing to create a low profile sensor to measure 400-410 nm. (should not be used with most WBS filters do to secondary response in the IR) Filters and optics are epoxied in place and cannot be removed. Custom orders are non refundable. Please contact a sales engineer for a price quote, or assistance with filter selection. ☒		page 123-B
XRL140/U , <i>ILT1400</i> <i>Unfiltered low profile sensor for custom applications</i>	Varies by filter selection	33 mm ² silicon cell in 13 x 42 mm dia. housing can be combined with IL filters and diffusers to make custom low profile sensors. ie. NS405 filter with teflon diffuser can be mounted in XRL housing to create a low profile sensor to measure 400-410 nm. (should not be used with most WBS filters do to secondary response in the IR) Filters and optics are epoxied in place and cannot be removed. Custom orders are non refundable. Please contact a sales engineer for a price quote, or assistance with filter selection. ☒		page 123-B

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