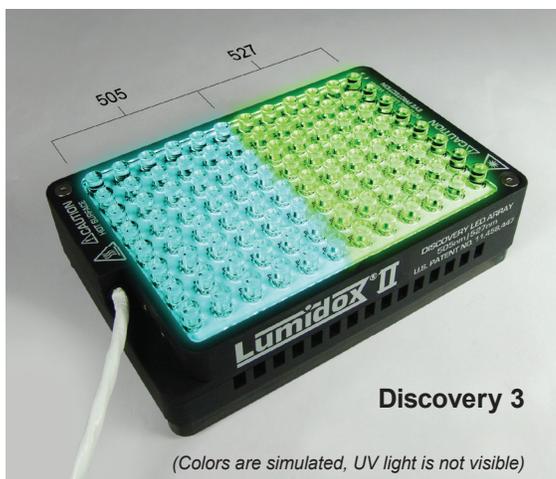




Discovery 1



Discovery 2



Discovery 3

(Colors are simulated, UV light is not visible)

Discovery/Screening LED Arrays

If you're looking for a quick and economical way to evaluate light/color wavelengths for your photocatalysis research, then Analytical Sales and Services' new Discovery LED arrays for screening are the ideal option. These new arrays offer researchers a way to streamline their work in the evaluation of the wavelengths that the Lumidox® II line of products has to offer.

There are currently 15 wavelength options available. Our Discovery LED arrays provide 9 of them across 3 array units. They are:

Discovery 1 (3 UVs):

- 375nm, 385nm, 395nm
- Each wavelength features 4 columns of 8 LEDs

Discovery 2 (UV405, Indigo, Blue & Amber):

- 405nm, 445nm, 470nm, 590nm
- Each wavelength features 3 columns of 8 LEDs

Discovery 3 (Cyan, Green):

- 505nm, 527nm
- Each wavelength features 6 columns of 8 LEDs

The following wavelengths are available as individual LED arrays:

- 365 (U365)
- 420 (Violet)
- 630 (Red)
- 660 (Deep Red)
- 730-IR (Infrared)
- White

They are not compatible for placement in Discovery LED arrays due to the varying electrical conditions.

Discovery LED arrays come with a lens mat surface and are available with a choice of a solid or active cooling base.

For the cooling of solid base arrays we recommend using our Thermal Transfer Deck with spill-proof fittings (TTD+).

See back for more details.

Catalog No.	Description
LUM296LSG1	Lumidox® II, 96 Well, Discovery LED Array, 375/385/395nm, with Lens Mat & Solid Base
LUM296LAG1	Lumidox® II, 96 Well, Discovery LED Array, 375/385/395nm, with Lens Mat & Active Base
LUM296LSG2	Lumidox® II, 96 Well, Discovery LED Array, 405/445/470/590nm, with Lens Mat & Solid Base
LUM296LAG2	Lumidox® II, 96 Well, Discovery LED Array, 405/445/470/590nm, with Lens Mat & Active Base
LUM296LSG3	Lumidox® II, 96 Well, Discovery LED Array, 505/527nm, with Lens Mat & Solid Base
LUM296LAG3	Lumidox® II, 96 Well, Discovery LED Array, 505/527nm, with Lens Mat & Active Base

Thermal Transfer Deck with Spill-Proof Fittings (TTD+)

- **Must be used with a recirculating liquid chiller or heater**
- **Can be attached to Lumidox® II solid base LED arrays for direct cooling of the array**

When connected to an external recirculating liquid chiller, our Thermal Transfer Decks can be used as either a chilling plate or hot plate. Apply heat or cold directly to your samples or sample vessels (such as Para-dox® Reaction Blocks), or use it to cool your Lumidox® II solid base LED array. It is compatible with a wide variety of coolants (water, propylene glycol, ethylene glycol, oil, etc.). Recommended temperature range is -40°C to 80°C.

This aluminum thermal transfer deck conforms to SLAS dimensions and is compatible with a variety of Analytical Sales' collection plates and Thermal Adapter Plates. Four (4) 3mm mounting holes allow for attachment to **solid base** Lumidox® arrays. High-end valved, spill-proof fittings allow for quick connection and disconnection. Input and Output ports are user configurable, and may be relocated between side and top faces. Units are shipped with side exit ports as standard. Decks are stackable, and multiple decks can be chained together for a total temperature control solution.



Includes:

- 2x 5' lengths of 3/8" (9.5 mm) OD tubing with precisely fitted hose-barbed inserts
- 2x 1/4-NPT high-end valved, spill-proof fittings
- 3x 1/4-NPT plugs

Weight: 772.5g



Benefits of High-end Fittings

- Improved functionality and design
- Precise barbed inserts for superior tubing grip
- Fittings feature built-in shutoff valves for preventing spills
- Push-button thumb latches for quick and easy connection and disconnection

Compatible Apparatus:

- All Lumidox® II solid base arrays*
- 967720TAP and 59623-23TAP Thermal Adapter Plates (warm/cool transfer to polypropylene collection plates)



Our Thermal Transfer Decks require an external liquid chiller. We recommend the **Tcube Edge**, which is a low cost, high performance thermoelectric chiller optimized for lasers, optics, and life sciences.

- High performance, low cost
- Precise $\pm 0.05^\circ\text{C}$ temperature control
- Reliable, compact, quiet, and energy efficient

Catalog No.	Description
266540	TTD+ (Thermal Transfer Deck with High-end Fittings)
TCubeEdge	TCube Edge Chiller

**We highly recommend that you allow Analytical Sales and Services, Inc. to attach your thermal transfer deck to your solid base array before shipping.*

**Note: the Thermal Transfer Deck is not compatible with ACTIVE BASE arrays.*