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(408)761-0062 sales@light-speed-tech.com

LIGHTSPEED TECHNOLOGIES

HPLS Dragon Series Price List August 2010

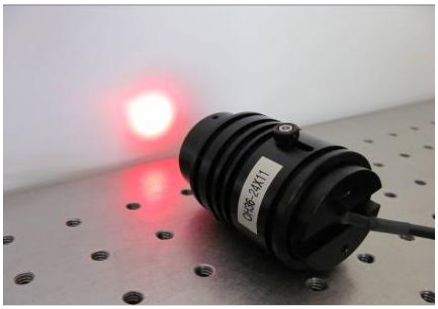
The HPLS Series drivers allow easily interchanged LED options with standard selection from 7 colors and 2 white, UV and NIR also available, see LED options. Drivers mountable on 8-32 or M4 threads. For focusing, collimation, diffused, light guide or fiber coupling, see Optics Options. Packages provide some discounted pricing, see Kits. Additional configurations available include microscope input, multiple colors, OEM. Quantity discounts available.

HPLS-36 Series with Built In Driver

Part Number	Description	Price
HPLS-36APL750	Continuous variable adjustment. Base unit with built in, low noise linear driver and manual analog control. Current 0750mA or specify. Two operating modes, selectable by the switch on control panel: fixed maximum power or adjustable by potentiometer knob. Accepts LED heads with 0.2-1.2 inch pin spacing. Power requirements: 4.55V, 1A (included). Locking Potentiometer Option.	$ 1,080.00
HPLS-36AD3500	Base unit with built in driver, for high current at low duty cycle/ pulse busts app. Analog mode (500mA) or digital mode (3.5A), selectable by switch on control panel. Accepts LED heads with 0.2-1.2 inch pin spacing (LEDH, LEDHR). Digital mode: light is triggered by external signal, TTL/CMOS input 3-5V, BNC connector; 150 ns rise time, 200ns fall time; Smart Time Limiting circuitry limits cumulative energy delivered to LED for protection. Single pulse length range: 0.5us-1 ms, maximum duty cycle of pulse train is 10%, average active time/relaxation time ratio is 1:10. Any repetition rate. Analog mode: optical output is proportional to the analog signal applied, <2us stab time, input format 0-5V. Power requirements: 12V, 0.5A (included)	$ 1,450.00
HPLS-36AD3500-DI	Dual input. Same as HPLS-36AD3500 but dual inputs for simultaneous Analog and Digital Control. Twin BNC Connector. Test mode for aiming. Twin BNC Cable, power supply included.	$ 1,550.00

HPLS-36DD7500	Faster rise time, higher intensity. Base unit with builtin 7.5A driver for applications where faster fall/rise time, short pulses at low duty cycle are required. Light is triggered by external signal, TTL/CMOS 35V, BNC connector, 117ns rise time, 45ns fall time. Optical pulse halfwidth matching the halfwidth of starting pulse. Smart Time Limiting circuitry limits cumulative energy delivered to LED. Single pulse length range 50ns-40us, maximum duty cycle of pulse train 3.3%, average active/relaxation time ratio is 50:1. Any repetition rate.	$ 1,400.00
HPLS-36DD500	Base unit with built in 500mA "digital" (triggered) driver for PWM/triggering, any duty cycle up to CW. Accepts LED heads with 0.2-1.2 inch pin spacing. (LEDH, LEDHR). Driver: builtin, light is triggered by external signal, TTL/CMOS input 3V5V, BNC connector. 150 ns rise time, 200ns fall time. From 300ns pulses to CW, any repetition rate. Aim mode/ external control mode selectable by a switch on control panel. Power requirements: 12V, 0.5A.	$ 1,250.00
HPLS-36AD500	Base unit built in 500mA driver. Analog or digital mode, selectable by switch on control panel. Accepts LED heads with 0.2-1.2 inch pin spacing. Digital mode: light is triggered by external signal, TTL/CMOS input 3-5V, BNC connector; 150 ns rise time, 200ns fall time; from 300ns pulses to CW, any repetition rate. Analog mode: optical output is proportional to the analog signal applied, <2us stab time, selectable format 0-5V, 0-10V, 4-20mA, 0-20mA. Power requirements: 12V, 0.5A.	$ 1,250.00
HPLS-36DD7500-SP	Short pulses without costly digital generators. Same as HPLS-36DD7500 but input rising trigger generates pre-determined optical pulse width.	$ 1,490.00
HPLS-36DD18A	Short pulses with maximum current Fastest rise time, highest intensity. Base unit with builtin 18A driver for applications where fastest fall/rise time, short pulses at low duty cycle are required. Light is triggered by external signal, TTL/CMOS 35V, BNC connector. Optical pulse halfwidth matching the halfwidth of starting pulse. Smart Time Limiting circuitry limits cumulative energy delivered to LED. Single pulse length range 20ns to<1us depending on LED.	$ 1,890.00

Optics and Accessories

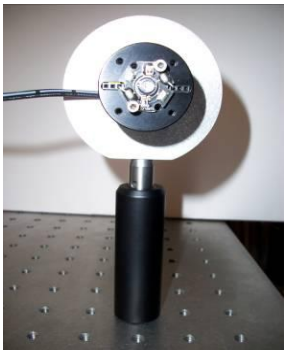


OH-2	Optical attachement for LEDHR heads (with acrylic reflector). Diffuser/filter holder for 1 inch optics. Accepts 3 optical elements diffusers, filters.	$ 95.00
1LSD-5	Light shaping diffuser, 1 inch diameter, 5 degree diffusion	$ 65.00
1LSD-5-1.35	Light shaping diffuser, 1.35 inch diameter, 5 degree diffusion for use with the OH36-38X17.5 collimator	$ 65.00
OH36-24x11	Collimator for HPLS-36, 24mm aperture, 11mm EFL, for LED heads LEDH (collimator is mounted on the base unit). Accepts 2 optical filters 0.2" thick x 1" diameter. Light collection efficiency 57% (with collimated to infinity beam). Adjustible divergence.	$ 230.00
OH36-24X11-Focus	Focusing optic for use with OH36-24X11 to focus light after filters	$ 105.00
OH36-24X18WF	Collimator for HPLS-36, 24mm aperture, 18mm EFL, for LED heads LEDH (collimator is mounted on the base unit). Adjuatable Divergence. Light collection efficiency, maximum in wide field mode 87%.	$ 180.00
OH36-30X25	Collimator for HPLS-36, 30mm aperture, 27.5mm EFL, for LED heads LEDH (collimator is mounted on the base unit). Light collection efficiency 17% (with collimated to infinity beam). Adjustible divergence.	$ 200.00
OH36-30X13	Collimator for HPLS-36, 30mm aperture, 13mm EFL, high performance (high NA), for LED heads LEDH (collimator is mounted on the base unit). Light collection efficiency 60% (with collimated to infinity beam). Adjustible divergence.	$ 230.00
OH36-38x34.5	Collimator for HPLS-36, 38mm aperture, 34.5mm EFL, standart performance. Light collection efficiency 20% (with collimated to infinity beam). Adjustible divergence.	$ 200.00
OH36-38x17.5	Collimator for HPLS-36, 38mm aperture, 17.5mm EFL, high performance (high NA). Light collection efficiency 60% (with collimated to infinity beam). Adjustible divergence.	$ 230.00
OH36-C/CS	C/CS Mount for HPLS-36 series, use with LED heads LEDH	$ 135.00

Long Range Collimators

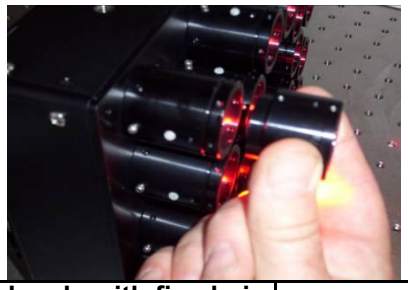
OH36-60X135	• Effective focal length: 135mm • Main lens diameter: 60mm • Clear optical aperture: 57mm • F#: 2.37 • NA: 0.21 • Light collection efficiency (geometrical factor): 4.4% min • Overall efficiency (including reflection losses): 4.04.2% • Spot size, LEDH head (1.4x1.4mm emitter), at 84" (213cm) distance: 22x22mm MIN • Weight, collimator only: 350g	$ 750.00
OH36-60X140-210	• Effective focal length: 140-210mm • Main lens diameter: 60mm • Clear optical aperture: 57mm • F#: 2.453.68 • Light collection efficiency (geometrical factor): 4.82% min • Overall efficiency (with reflection losses): 4.21.75% min • Spot size, LEDH head (1.4x1.4mm emitter), at 84" (213cm) distance: adjustable, 23x23m – 15x15mm MIN • Operating range at f=140mm: 70cm (7x7mm spot) – infinity • Operating range at f=210mm: 55cm (4x4mm spot) infinity • Weight, collimator only: 315g	$ 850.00

HPLS-36RS1 LED Socket (See OH-36 Optics for optics and accessories)



HPLS-36RS1	LED Socket. Accepts LED heads with 0.2-1.2 inch pin spacing. Accepts OH-36 Optics. Specify connector 1)pinned hex substrate for 36 series 2)terminal connector for 30, 45, or 54 series, or inline connector.	$ 180.00
HPLS-36-RS1-REGXXXX	RS1 LED socket with built in current regulated driver. Specify XXXX as 0500mA, 0700mA or 1000mA	$ 345.00
HPLS-36RS1-BASE	Heat Sink / Post Mount for HPLS-36RS1. Disc with 2 flats on rounded surface. Each flat with one threaded hole: 1/4-20, M6. Countersunk holes on back for 6-32 SHCS to mount RS1	$ 65.00
HPLS-36RS1-RM	Mount for HPLS-36RS1 allows tip/tilt to be set.	$ 150.00

HPLS-26RS2 LED Socket, optics, and accessories

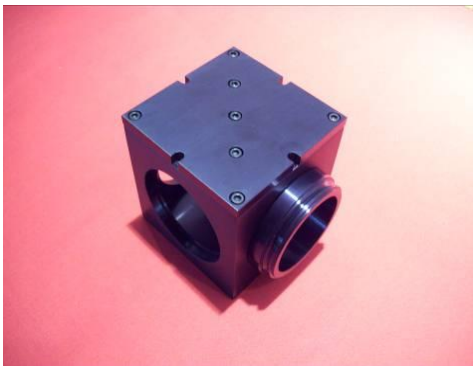
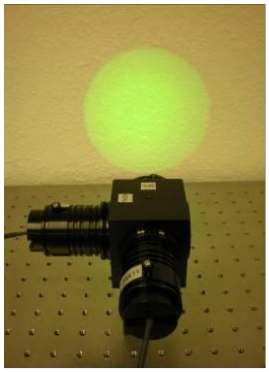


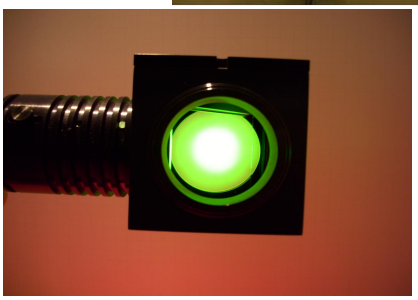
HPLS-26RS2	LED Socket, 26mm Diameter, Accepts LED heads with fixed pin spacing. Accepts OH-26 Optics	$ 99.00
HPLS-26RS2-BASE	Heat Sink / Post Mount for HPLS-26RS2. Disc with 2 flats on rounded surface. Each flat with one threaded hole: 1/4-20, M6. Countersunk holes on back for 6-32 SHCS to mount RS1	$ 65.00
HPLS-26RS2-RM	Mount for HPLS-36RS1 allows tip/tilt to be set.	$ 65.00
OH26-25X0.1	Collimator with 0.1 NA for narrow beam configuration	$ 195.00
OH26-25X0.5NA	Collimator with 0.5 NA for wide beam configuration (bigger spot, higher efficiency)	$ 145.00
OH26-(8+8)DEG	Set of two 8 degree wedges for beam steering collimator output	$ 275.00
HPLS-26-HC	Hirose Connector Holder attaches to back of HPLS-26RS2 LED socket	$ 81.00
OH26-30X15	Square collimator with window notch fits HPLS-26RS2 LED socket.	$ 350.00
OH26-30X15-WIN	Replacement Window for square Collimators	$ 3.50

Light Launching Attachements for launching into fibers, fiber bundels, POFs, and Light Guides

FL-25x0.5	Fiber launcher with 25mm acceptance beam, output NA=0.5. Requires OH36-24x11 collimator and fiber adaptor specific for optical connector (below)	$ 105.00
FA-25xFC	Fiber Adaptor for FL-25 Fiber Launcher, accepts FC male optical connectors	$ 65.00
FA-25xSMA	Fiber Adaptor for FL-25 Fiber Launcher, accepts SMA-905 male optical connectors	$ 65.00
FA-25xST	Fiber Adaptor for FL-25 Fiber Launcher, accepts ST male optical connectors	$ 65.00
FA-25XPOF	Fiber Adaptor for FL-25 Fiber Launcher, accepts one 1mm Plastic Optical Fiber. Includes 1m POF	$ 45.00
FA-25X3POF	Fiber Adaptor for FL-25 Fiber Launcher, accepts three 1mm Plastic Optical Fibers. Incudes 3 X 1m POF	$ 125.00
FA-25X5	Light Guide Adapter, fits 5mm OD Light Guide	$ 65.00
FA-25X10	Light Guide Adapter, fits 10mm OD Light Buide	$ 65.00
FA-Oriel-11mm	Fiber Adaptor for FL-25 Fiber Launcher, Accepts Oriel 11mm fiber bundle	$ 45.00
FA-25XDJ-QVMBAL	Fiber adapter for FL-25 fiber launcher, fits Dolan-Jenner QVMABL backlight	$ 45.00
FA-BLANK	Blank FA adapter for customer applications	$ 35.00
FA-Blank-LG	Blank FA adapter for customer light guide fittings (is longer than FA-Blank for more support)	$ 55.00

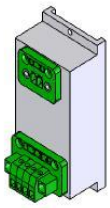
Beam Combiners for multiple wavelength applications and Bright Field Colinear camera Illumination



OH36-CU36	2.5 inch cube, stackable for multiple color illumination. Includes filter holder and cube adapter for stacking cubes.	$ 799.00
OH36-CU36S	2.5 inch cube with beam combiner. Used for co-linear or 2 color illumination. Includes beam splitter. 36mm diameter illumination.	$ 999.00
OH36-CU36D	2.5 inch cube with dichroic filter. Used for 2 color illumination. 36mm diameter illumination.	Contact us
OH36-CU36-MC	Cube to microscope or Cube to OH36-24X11	$ 165.00
OH36-CU36-CC	Cube to Cube adapter	$ 135.00
OH36-CU36-P	Cube Plug	$ 45.00

HPLS-REG Drivers



HPLS-REG-XXXX	Basic Driver includes driver, housing, input and output connector sets. specify current XXXX as 0350mA, 0500mA, 0700mA, or 1000mA, 6-25V DC input. TTL disable input standard. Drives 1-6 LEDs.	$ 165.00

HPLS-30 compact Box Driver (Requires LED Sockets)

HPLS-30APLR750	HPLS-30 series BOX Driver for remote mount. Switch selected control of Locking Potentiometer or Remote Control 0-5V. Rise/Fall time approximately 3 microseconds. Enclosure size 1X2.5X4 inches. Locking Output Connector. Continuous variable adjustment with switch to select potentiometer or voltage control input. Low noise linear driver. Maximum Current 0750mA or specify. Two operating modes, selectable by the switch on control panel: Adjust by locking potentiometer or voltage input. Power requirements: 4.55V, 1A (included).	$ 795.00
-S2	Analog Drivers 2 LED Option	$ 870.00
-S3	Analog Drivers 3 LED Option	$ 920.00
HPLS-30AD3500	HPLS-30 Series Box Driver. High current at low duty cycle/ pulse busts app. Analog mode (500mA) or digital mode (3.5A), selectable by switch on control panel. Accepts LED heads with 0.2-1.2 inch pin spacing (LEDH, LEDHR). Digital mode: light is triggered by external signal, TTL/CMOS input 3-5V, BNC connector; 150 ns rise time, 200ns fall time; Smart Time Limiting circuitry limits cumulative energy delivered to LED for protection. Single pulse length range: 0.5us-1 ms, maximum duty cycle of pulse train is 10%, average active time/relaxation time ratio is 1:10. Any repetition rate. Analog mode: optical output is proportional to the analog signal applied, <2us stab time, input format 0-5V. Power requirements: 12V, 0.5A (included)	$ 1,270.00
HPLS-30AD3500-S2	Serially connected control of 2 LEDs	$ 1,340.00
HPLS-30AD3500-S3	Serially connected control of 3 LEDs	$ 1,390.00
HPLS-30AD3500-P2	2 Channel Control	$ 1,780.00

HPLS-30DD7500	HPLS-30 Series BOX Driver. Faster rise time, higher intensity. Remote Driver unit with built in 7.5A driver for applications where faster fall/rise time, short pulses at low duty cycle are required. Light is triggered by external signal, TTL/CMOS 35V, BNC connector, 117ns rise time, 45ns fall time. Optical pulse halfwidth matching the halfwidth of starting pulse. Smart Time Limiting circuitry limits cumulative energy delivered to LED. Single pulse length range 50ns-40us, maximum duty cycle of pulse train 3.3%, average active/relaxation time ratio is 50:1. Any repetition rate. Test Mode.	$ 1,220.00
HPLS-30DD7500-P2	DD7500 with 2 independent outputs controlled from the same input.	$ 1,650.00

HPLS-45 Box Drivers with Digital Potentiometer (Requires LED Sockets)

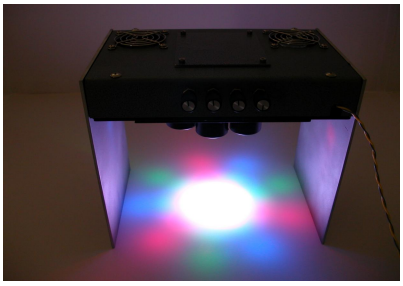
HPLS-45-A-10-1000	Analog LED Driver with 2 level current control. 3 position switch 0-10mA, OFF, 0-1000mA. selectable local control with Digital potentiometer to set current or external 0-5V control. Use with RS1 LED socket for remote operation or integrated RS1 LED Socket for stand alone operation. Output monitor indicates switch position	$ 1,545.00
HPLS-45AD3500-DIP	HPLS-45 Series Box Driver. High current at low duty cycle/ pulse busts app. Analog mode (500mA) or digital mode (3.5A), selectable by switch on control panel. Accepts LED heads with 0.2-1.2 inch pin spacing (LEDH, LEDHR). Digital mode: light is triggered by external signal, TTL/CMOS input 3-5V, BNC connector; 150 ns rise time, 200ns fall time; Smart Time Limiting circuitry limits cumulative energy delivered to LED for protection. Single pulse length range: 0.5us-1 ms, maximum duty cycle of pulse train is 10%, average active time/relaxation time ratio is 1:10. Any repetition rate. Analog mode: optical output is proportional to the analog signal applied, <2us stab time, input format 0-5V. Local or external control. Power requirements: 12V, 1A (included)	$ 1,417.50

HPLS-45RXXXX-3DExt	HPLS-45 series BOX Driver for RS1 LED socket. Switch selected control of Digital Potentiometer or Remote Control 0-5V. Driver is repeatable but non linear (more tunability at lower outptu levels). 0350, 0500, 0700 and 1000mA output available. Locking Output Connector. Continuous variable adjustment with switch to select potentiometer or voltage control input. Two operating modes, selectable by the switch on control panel: External (analog or TTL) or local control (digital potentiometer). Power requirements: 12V, 1A (included). Current indicated by part number specify XXXX mA	$ 495.00
HPLS-45-LC	9 LED with Liquid Cooled Baseplate designed for use with Heracel and other ovens. Includes 2 Channel HPLS-45 controller, 3 x 3 array of HPLS-26RS2 LED sockets mounted on water cooled baseplate, , recirculationg coolant heat exchanger. LEDs additional, see LED Selections	$ 2,985.00
HPLS-45-XX-1	Manual controller for two AD3500 drivers with 2 digit digital potentiometers for accurate and repeatable manual setting of AD3500 drivers in Analog mode.	$ 245.00
HPLS-45-XX-2	Manual controller for one AD3500 drivers with 2 digit digital potentiometers for accurate and repeatable manual setting of AD3500 drivers in Analog mode.	$ 285.00
-V	Voltage input Option (switch selects manual digital control or voltage control by BNC input)	$ 45.00

HPLS-54 Box Drivers with Digital Potentiometer (Requires LED Sockets or LED Panel)

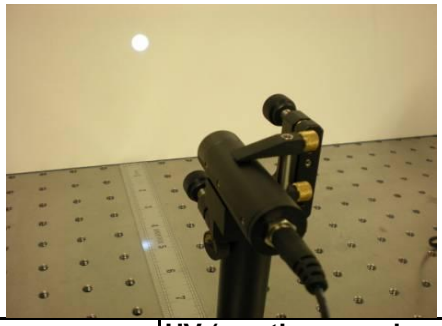
HPLS-54AR750-2	Two channel low noise linear driver controlled by 2 digit XX Digital Potentiometer (3 digit XXX option available). Max current 0750mA. Output set by potentiometer 0-100% output. Requires LED sockets or LED panel. Power requirements: 4.55V, 1A (included).	$ 645.00
HPLS-54AR750-3	Three Channel Low noise linear driver controlled by 2 digit XX Digital Potentiometer (3 digit XXX option available). Max current 0750mA. Output set by potentiometer 0-100% output. Requires LED sockets or LED panel. Power requirements: 4.55V, 1A (included).	$ 1,161.00
HPLS-54AR750-4	Four channel low noise linear driver controlled by 2 digit XX Digital Potentiometer (3 digit XXX option available). Max current 0750mA. Output set by potentiometer 0-100% output. Requires LED sockets or LED panel. Power requirements: 4.55V, 1A (included).	$ 1,548.00
HPLS-54AR750-5	5 channel low noise linear driver controlled by 2 digit XX Digital Potentiometer (3 digit XXX option available). Max current 0750mA. Output set by potentiometer 0-100% output. Requires LED sockets or LED panel. Power requirements: 4.55V, 1A (included).	$ 1,870.50
HPLS-54-XXX	3 Digit Option (per Channel)	$ 74.00

HPLS-9R 3 color Ring Illuminator and 4 Color Cluster Options



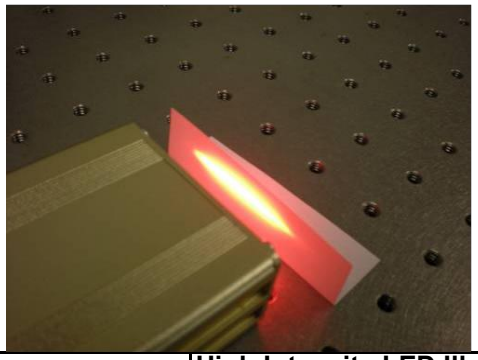
HPLS-9R	9 LEDS mounted in a ring optimized to illuminate petri Dish. Variable voltage control of three wavelenths. Simulates solar intensity. Stands upright, illuminating downward and Includes port for camera or spectrometer.	$ 2,350.00
HPLS-4C	4 Channel Linear Analog LED Driver Board	$ 650.00
4C15M	4 Channel 15m cable for HPLS-4C 4 channel driver board	$ 95.00
Cluster LED-4	8 inch diameter Circular mounting plate for 4 RS1 sockets	$ 173.00

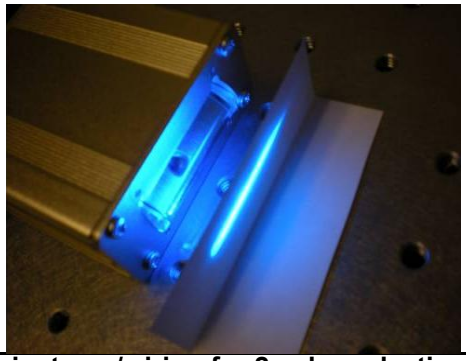
HPLS-Wand and HPLS-Mini



HPLS-Wand	UV (or other wavelength) mounted on 1/2 inch tube. See UV LEDs for optics options.	$ 169.00
HPLS-Mini-COL	Mini LED illuminator with semi-collimated output. Visible wavelengths standard. 5V input.	$ 450.00
HPLS-Mini-FOC	Mini LED illuminator with focused output. Visible wavelengths standard. 5V input.	$ 450.00
HPLS-Mini-RING	Mini Ring Illuminator, 1 inch aperture. Select white or red.	$ 225.00

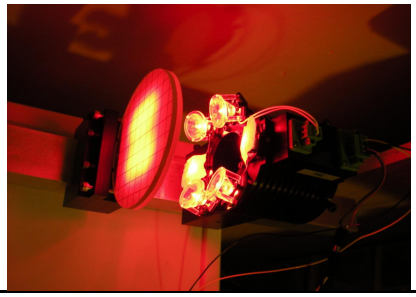
HPLS-30-CYL





HPLS-30AP500-CYL480-630	High Intensity LED Illuminator w/wiring for 2 color selection: ixed Output. Includes 2 emitters, 490nm w500SWP filter and 635nm w/640SWP filter, cylindrical lens optimized for line illumination of 38mm sat 36mm distance	$ 748.00
HPLS-30-Bracket	2 Bracket mounting option for HPLS-BOX enclosures	$ 30.00

HPLS-40R and HPLS-90R High Intensity Ring Illuminators



HPLS-90R-REG700-D-4T30	4LED ring light source with built-in driver, 4 LEDs with reflectors at 30 degree angle for bright uniform darkfield illumination at 90mm distance. 700mA/LED. Fits 50mm Lenses	$ 840.00
HPLS-90R-REG-D-6T30	Angled 6 LED ring illuminator with diffused reflectors and simple regulator. 6 LEDs with reflectors at 30 degree angle for bright uniform darkfield illumination at 90mm distance. 700mA/LED. Fits 50mm Lenses	$ 950.00
HPLS-40R-2T25E-	Angled 2 LED ring Illuminator with diffused reflectors (no power supply) Fits 40mm lenses.	$ 220.00
	Other ring configurations are available for uniform illumination at specified distances. Contact us for a quote.	

HPLS-76 Compact 6 Emitter High Intensity Illuminator

HPLS-76AD3500	6 Head LED Driver, combines equivalent of 6 HPLS36-AD3500 in one unit. Does not include Optics see OH76 options. Contact us for IR or UV options.	$ 5,800.00
HPLS-76AD3500 UV/IR	UV/IR option	$ 280.00
OH76-0.2	Optics attachement for HPLS-76 Illuminators, outputs variable NA around 0.2	$ 1,450.00
OH76-0.5	Optics attachement for HPLS-76 Illuminators, outputs variable NA around 0.5	$ 1,250.00

HPLS-692 18 Emitter High Intensity Illuminator

HPLS-692-AD3500-18	HPLS 692 configured with 18 LEDs around center aperture, AD3500 drivers. 617nm LEDs	$ 8,463.00
HPLS-692-18-COL-25X0.1NA	Set of 18 collimators with 0.1 NA for narrow beam configuration	$ 3,444.00
HPLS-692-18-COL-25X0.5NA	Set of 18 collimators with 0.5 NA for wide beam configuration (bigger spot, higher efficiency)	$ 2,394.00
HPLS-692-18-(8+8)DEG	18 sets of two 8 degree wedges for beam steering collimator output	$ 4,563.00
LEDH-692-18	Set of 18 replacement LEDs (visible wavelength range, select color from data sheet). Contact us for UV and NIR options	$ 360.00
	Other Layouts and emitter configurations available. We adjust the layout and can scale this to much larger formats. Contact Us for a quote.	Contact us

Kits

HPLS-36AD3500-Optimum-KIT	Includes driver plus OH36-24X11 collimator, fiber launching attachment and 2 fiber launch adapters, 2 visible LEDs of choice, power supply, allen wrenches, manual. Specify illumination requirement	$ 1,850.00
HPLS-36AD3500-KIT	Includes driver plus collimator or diffuser, 2 standard visible LEDs of choice, power supply, allen wrenches, manual. Specify illumination requirement 1)Focused/collimated or 2)Diffused	$ 1,700.00
HPLS-36DD7500-KIT	Includes driver plus collimator or diffuser, 2 standard visible LEDs of choice, power supply, allen wrenches, manual. Specify illumination requirement 1)Focused/collimated or 2)Diffused	$ 1,600.00
HPLS-36DD7500-SP-KIT	Includes driver plus collimator or diffuser, 2 visible LEDs of choice, power supply, allen wrenches, manual. Specify illumination requirement 1)Focused/collimated or 2)Diffused	$ 1,750.00
HPLS36-APL750-KIT	Includes driver plus collimator or diffuser, 2 standard visible LEDs of choice, power supply, allen wrenches, manual. Specify illumination requirement 1)Focused/collimated or 2)Diffused	$ 1,300.00

HPLS-36AD3500 Illumination Workhorse Kit	LED light source with built-in driver Includes: 1 HPLS-36AD3500-DI Driver capable of Analog Mode and/or simultaneous Digitial Mode, Includes the following: 1 Set LEDH 455, 470,505,530,590, 617, 630nm, 3500K and 5500K White 1 OH36-38X17.5 Collimtor/focuser for use LEDH. 30mm aperture, 13mm EFL 1 OH36-24X11 Collimtor/focuser for use LEDH. 24mm aperture, 11mm EFL 1 12V 1Amp Power Supply 1 C/CS Mount 1 Fiber/Light Guide Launcher 1 Manual 2 Allen wrenches 2 extra screws for mounting LEDs	$ 1,950.00

Price and specifications subject to change. Lead time varies.

LEDs

LED Heads, compartible with HPLS-36, HPLS-36-RS1 and HPLS-26-RS2 series sockets

UV LEDs

	UV LEDs Flat Window pricing shown. Hemispherical Lens add $15. Ball Lens add $65. Open (no reflector) subtract $10.	
LEDH240		$ 618.00
LEDH245		$ 578.00
LEDH250		$ 538.00
LEDH255	255nm, 120uW min @30mA. TO39 Max 200mA at 1% duty cycle	$ 538.00
LEDH260		$ 498.00
LEDH265		$ 458.00
LEDH270		$ 398.00
LEDH275		$ 358.00
LEDH280	280nm, 480uW min @30mA. TO39 Max 200mA at 1% duty cycle	$ 338.00
LEDH285		$ 318.00
LEDH290		$ 298.00
LEDH295	295nm, 300uW min @30mA. TO39 Max 200mA at 1% duty cycle	$ 298.00
LEDH300		$ 278.00
LEDH305		$ 278.00
LEDH310		$ 258.00
LEDH315	315nm, 300uW min @30mA. TO39 Max 200mA at 1% duty cycle	$ 258.00
LEDH325		$ 238.00
LEDH335	335nm, 300uW min @30mA. TO39 Max 200mA at 1% duty cycle fwhm 15-20nm	$ 198.00
LEDH345		$ 158.00
LEDH355		$ 118.00
LEDH365	365nm, 25mW@350mA	$ 120.00
LEDH365-HP	365nm, 250mW@500mA	$ 360.00
LEDH375	375nm, 55mW@350mA	$ 156.00

LEDH385	385nm 75mW@350mA +/- 75 degrees	$	140.00
LEDH395	395nm, 95mW@350mA	$	124.00
LEDH395-L		$	145.00

Visible LEDs

LEDH400-L		$	120.00
LEDH-405-L	LED Head 0.8 inch pin spacing - Indigo	$	90.00
LEDH410	410nm, 130mW @350mA +/- 75 degrees	$	108.00
LEDH420	420nm, 130mW @350mA +/- 75 degrees	$	108.00
LEDH-455	LED Head 0.8 inch pin spacing - Royal Blue	$	30.00
LEDH-470	LED Head 0.8 inch pin spacing - Blue	$	30.00
LEDH-505	LED Head 0.8 inch pin spacing - Cyan	$	30.00
LEDH-530	LED Head 0.8 inch pin spacing - Green	$	30.00
LEDH-590	LED Head 0.8 inch pin spacing - Amber	$	30.00
LEDH-617	LED Head 0.8 inch pin spacing - Orange	$	30.00
LEDH-630	LED Head 0.8 inch pin spacing - Red	$	30.00
LEDH650	650nm, 70mW @350mA +/- 75 degrees	$	72.00
LEDH670	670nm, 110mW @500mA +/- 75 degrees	$	72.00
LEDH690	690nm, 110mW @500mA +/- 75 degrees	$	72.00
LEDH-530-R	LED Head 0.8 inch pin spacing - Green	$	30.00
LEDH-505-R	LED Head 0.8 inch pin spacing - Cyan	$	30.00
LEDH-470-R	LED Head 0.8 inch pin spacing - Blue	$	30.00
LEDH-448-R	LED Head 0.8 inch pin spacing - Royal Blue	$	30.00
LEDH-627-R	LED Head 0.8 inch pin spacing - Red	$	30.00
LEDH-617-R	LED Head 0.8 inch pin spacing - Red-Orange	$	30.00
LEDH-590-R	LED Head 0.8 inch pin spacing - Amber	$	30.00

White LEDs

LEDH-3500	LED Head 0.8 inch pin spacing - Warm White	$	30.00
LEDH-5500	LED Head 0.8 inch pin spacing - Bright White	$	30.00
LEDH-2700-R	LED Head 0.8 inch pin spacing - 2700K	$	30.00
LEDH-3000-R	LED Head 0.8 inch pin spacing - 3000K	$	30.00
LEDH-3500-R	LED Head 0.8 inch pin spacing - 3500K	$	30.00
LEDH-4000-R	LED Head 0.8 inch pin spacing - 4000K	$	30.00
LEDH-5000-R	LED Head 0.8 inch pin spacing - 5000K	$	30.00
LEDH -5700-R	LED Head 0.8 inch pin spacing - 5700K	$	30.00
LEDH-6500-R	LED Head 0.8 inch pin spacing - 6500K	$	30.00

IR LEDs

LEDH720	710nm, 110mW @500mA +/- 75 degrees	$	72.00
LEDH740	740nm, 150mW @500mA +/- 75 degrees	$	72.00
LEDH760	760nm, 150mW @500mA +/- 75 degrees	$	72.00
LEDH780	780nm, 150mW @500mA +/- 75 degrees	$	72.00
LEDH810	810nm, 160mW @500mA +/- 75 degrees	$	72.00
LEDH830	830nm, 160mW @500mA +/- 75 degrees	$	72.00
LEDH850	850nm, 160mW @500mA +/- 75 degrees	$	72.00
LEDH850-HP	850nm, 550mW@2A	$	147.00
LEDH870-HP	870nm, 550mW@2A	$	126.00
LEDH890	890nm, 120mW @500mA +/- 75 degrees	$	72.00
LEDH905-HP	905nm, 400mW@2A	$	224.00
LEDH940	940nm, 120mW @500mA +/- 75 degrees	$	72.00
LEDH950-HP	950nm, 330mW@2A	$	105.00

Mid IR Contact Us

Photodiode Probes

PDP-36	Photodiode Probe. Sensitivity adjustable by external resistors/capacitors. Accepts OH36 Optics.	$ 735.00
PDP-36-FL	FL Fiber launching attachment fitted with PDP-36 Photodiode Probe. Sensitivity adjustable by external resistors/capacitors.	$ 840.00

LED and Laser Controllers

ELC1000	1ms Laser and LED controller. Gating, pulse delay, arbitrary waveforms.	$ 1,250.00

Replacement Power Supplies

HPLS-PS-5V	5V Power Supply for HPLS-36APL750	$ 45.00
HPLS-PS-12V	12V 1A Power Supply for HPLS-36AD3500	$ 65.00
HPLS-PS-24V-15	24V Power Supply 15W	$ 75.00
HPLS-PS-24V-45	24V Power Supply 45W	$ 165.00
HPLS-PS-24V-90	24V Power Supply 90W	$ 270.00
HPLS-PS-LAB	Laboratory Power Supply 80W Voltage Output (Three Ranges) 0 to 16.4V, 0 to 27.6V, 0 to 36.8V Current Output (Three Ranges) 0 to 5.1A, 0 to 3.1A, 0 to 2.3A Ripple & Noise <30mVpp, Line Regulation <4mV Load Regulation <20mV Display Dual 4-digit LED display	$ 365.00

Prices and Quotations
All quotations are valid for 30 days unless stated otherwise. Published prices are subject to change without notice. Custom and specialty products are individually priced per requirements specified and subject to change if changes are made from original request.

Purchase Orders and Payment Methods
Orders are accepted by email, mail, and fax. Verbal orders are not advised but accepted on individual basis. Payments by Net 30 account upon approval of credit or by credit card. Late fee 2% per month invoiced if past due. International customers: 100% pre-payment, credit card, or wire transfer Net 30 with approved credit.

Delivery and shipping.
Shipments are made domestically by USPS priority or FedEx FOB Campbell. Quotes include shipping and handling charges. International shipments to countries outside the U.S. do not include importation or duty fees and international shipping charges are specified with product quotes. Pricing quoted in the U.S. for products from international suppliers include duty and other importation fees.

Safety warnings and operating conditions.
Lightspeed Technologies is not liable for equipment damage or personal injury resulting from the use of these products. These products are supplied as OEM components to be integrated into products or used by qualified personnel. Do not look directly into LEDs or LED beam paths.

Warranty Terms and Conditions
Lightspeed Technology's products, HPLS base units, drivers, optics, accessories (except LED heads) are warranted to be free from manufacturing defects in materials, parts and labor for a period of 1 year from the date of delivery to a customer, customer's shipping department, and/or designated agent. Components that are subject for failure per conditions specific to customer's testing environment, including but not limited to, incompatible line outlet voltage, out-of-the-specifications line outlet voltage, incompatible signal voltages and/or timing requirements; specifically including, but not limited to, LED heads and piezo elements, are warranted for a period of 90 days.

Returns and cancellation conditions.
No returns on special order items, or if a demo unit was requested, furnished and subsequently tested by a customer prior to placing an order. All returns require approval and return materials authorization (RMA) number. All products should be returned with original packaging material. All returns are subject to repair fees after inspection and restocking fees. Contact Lightspeed Technologies for a (RMA) number and shipping address if product is to be returned. Lightspeed Technologies will make the determination of cause of damage and if warranty replacement is applied.

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