



VHO PRO LED LITERIBBON™ CATALOG

GENUINE VHO PRO LITERIBBON™, THE ONLY COLOR-CORRECT, FULL-SPECTRUM, FLEXIBLE LED PRODUCT ON EARTH



PROUD UNION SHOP



LITEGEAR

INTRODUCTION TO VHO PRO LITERIBBON™

The new VHO Pro LED LiteRibbon™ is the simplest color-correct lighting product available. Years in the making, just 3 simple components make this minimal light source created exclusively for cinema and TV production. At their core, the new VHO Pro LED emitters are a design breakthrough. We have created a beautiful, full-spectrum, white light that renders skin tones and colors to their natural state. VHO Pro emitters are fully color-correct and blend freely with legacy tungsten and fluorescent units as well as modern high-end LED fixtures from Arri®, Mole-Richardson Co.®, and others. VHO Pro emitters are the first LEDs to bring high-CRI, full-spectrum, color-correct white light to what we call low-output LED products. Typically reserved for high wattage and high cost LED fixtures, the new VHO Pro line brings color-correct white light into the affordable range.

VHO PRO LITERIBBON™ THE SIMPLEST TV & CINEMA LIGHTING PRODUCT AVAILABLE

LiteRibbon™ is made of color-correct, genuine VHO Pro emitters mounted to a white backing material that is flexible, cuttable, and adhesive-backed.

VHO Pro emitters have been specifically formulated to render skin tones beautifully. Their wide-angle output, combined with their ultra low power consumption allows for precise control of daylight- or tungsten-balanced light in previously impossible areas of the set or prop or wardrobe project.

Digital cinema cameras are finally living up to their promise of using less light without loss of image quality. At the same time, they are more sensitive than ever to low-CRI or poor quality white light. That's why precise low-output control of beautiful, full-spectrum white light is more important than ever. VHO Pro Tungsten and Daylite provide full-spectrum, color-correct light with a 120° output at only 0.16 watts per emitter!



**VHO
PRO
SERIES**

01



02



LITERIBBON™ HARD VS. SOFT LIGHT

VHO PRO LITERIBBON™ THE BUILDING BLOCKS FOR YOUR NEXT GREAT IDEA.

Genuine VHO Pro LiteRibbon™ is available in 24 variations.

There are TWO densities: Hard 120 and Soft 60; FOUR widths: single, double, triple, and six rows wide; and THREE colors of color-correct white: Tungsten, Daylite, and tunable-white Hybrid.

01. & 02. - VHO PRO HARD "120" AND SOFT "60"

VHO Pro LiteRibbon™ is available in two densities: hard, high-density 120 and soft, low-density 60. VHO 120 provides a concentrated, slightly "hard" output at about 1.5 watts per square inch. When specifying an intense light source for a small area, VHO 120 is a great choice. When more subdued light is required, VHO 60 provides an unmistakably soft light output. Clocking in at just 0.37 watts per square inch, it produces beautiful, soft light without the need for diffusion filters. Both the hard 120 and soft 60 offer a wide-angle output with graceful, tapered edges and a perfectly even field.

If applying LED LiteRibbon™ to an automobile interior headliner, choose the harder VHO 120 to augment the dome light. The smaller but more powerful output will yield a nice, directional, and believable output. Conversely, to provide a soft and subtle overhead feel, VHO 60 is recommended; because it spreads the LED emitters out over a larger area, a softer light output is created. This is a great way to provide a delicate and sourceless overhead light.

01



LITERIBBON™ WIDTH VARIATIONS

VHO PRO LITERIBBON™ THE BUILDING BLOCKS FOR YOUR NEXT GREAT IDEA.

Genuine VHO Pro LiteRibbon™ is the only color-correct, Daylite- or Tungsten-balanced ribbon available. Other similar products claim “high-CRI” or “no green” but pale in comparison to VHO Pro’s full-spectrum color rendering and LED consistency.

01. - VHO PRO X1, X2, X3, AND X6

VHO Pro LiteRibbon™ is available in a total of 4 widths: single wide “X1” features a single row of emitters while double wide “X2” offers a twin row. Completing the line are the triple wide “X3” and six wide “X6”. All four are available in the hard, high-density 120 as well as the softer, low-density 60 in either 3200K Tungsten, 6000K Daylite, or tunable Kelvin temperature Hybrid White.

If the desired type of light is linear, VHO 120’s X1, X2 or X3 are great choices. These provide light output that is sharp and cuttable in one direction but softer in the other. In contrast, the size of X6 provides a less linear output and is a great choice to achieve pools of light. The choice between X1, X2, X3, or X6 comes down to the amount of surface area your project requires.

01



02



03



COLOR CORRECT

VHO PRO LITERIBBON™

MAKE NO MISTAKE ABOUT IT.

OUR COLOR-CORRECT, VHO “PRO” LED LITERIBBON™ IS A DESIGN BREAKTHROUGH.

01. - VHO PRO TUNGSTEN

VHO Pro Tungsten provides an incandescent-like color that appears warm to the eye and to the camera. Performing at 3200K and 95 CRI, VHO Pro Tungsten is named for the metallic element that has been commonly associated with incandescent lighting. It beautifully mixes with legacy tungsten and halogen light sources and dims without Kelvin temperature shift. (Product shown is VHO Pro 120-X1.)

02. - VHO PRO DAYLITE

VHO Pro Daylite provides midday, sun-like hues that can be used to boost available daylight without the use of filters. Performing at 6000K and 95 CRI, VHO Pro Daylite is named for the industry term used for other daylight, color-correct technologies like fluorescent and HMI. It has more in common with these other technologies than its name. VHO Pro Daylite has been designed to match color and spectrum making it easy to openly mix light sources and lighting technologies. (Product shown is VHO Pro 120-X1.)

03. - VHO PRO HYBRID

VHO Pro Hybrid provides all the benefits of VHO Pro Tungsten and Daylite along with the range of Kelvin temperatures between 3200K and 6000K. This obvious advantage allows your LiteRibbon™ package or kit to always provide the required white balance without the need for filters. When used with our LiteDimmer Hybrid, you get granular control of Kelvin temperature along with master brightness and with its low mode, it is possible to achieve ultra precise low-light level control.

01



02



03



PRACTICAL APPLICATIONS

01. - BUILD-IT-YOURSELF FIXTURES

LiteRibbon™ is a product with hundreds of uses. One of these is custom flat-panel lighting fixtures. LiteRibbon™ can be assembled in an array on a thin, lightweight panel of nearly any shape or size. You can then use it as a handheld fill or flood in a tight spot. Or you could wrap LiteRibbon™ around a tube and place it inside a pole-mounted, battery-operated chinese lantern to create an airy, super soft light that will beautifully reproduce skin tones over the full dimmable range. Use VHO Hybrid, and you now add adjustable Kelvin temperature too. Combine VHO Pro LiteRibbon™ LED products with our best-in-class LiteDimmer controls, and it is your next great idea waiting to happen. **Image: Feature Film - The Master**

02. - AUTOMOBILE INTERIOR

Perhaps LiteRibbon's most appealing use is within the interior of a vehicle. It is here that nearly all of its advantages are fully realized. Flexibility allows it to conform to irregular shapes. Cuttability allows just the right amount of light in just the right location of the vehicle. Dimmability lets you easily fine-tune the output especially during magic-hour when the available light is rapidly changing. Adding our automated controls allows LiteRibbon™ to serve as a lighting effect for a poor-man's-process setup. **Image: Toyota Commercial 2012.**

03. - PRACTICAL LOCATION

When shooting at a practical location, LiteRibbon™ has many uses and advantages over traditional lighting gear. Due to its lightweight, miniature size and adhesive backing, LiteRibbon™ is the most low-impact form of lighting available. Capable of being installed under kitchen cabinets and controlled by a LiteDimmer with a small battery placed *inside* the cabinet, the homeowner will never know you were there. Whether boosting daylight or creating a subtle under-cabinet glow at night, you are sure to have as much (or as little) controllable, low-impact, color-correct light as needed. **Image: Sterling Residence**

01



02



FLICKER-FREE LITEDIMMER

LEGENDARY WORLD CLASS DIMMING

01. - LITEDIMMER SINGLE

The LiteDimmer line of LED controls starts with LiteDimmer Single. Designed exclusively for use on film, TV, and HD video sets, LiteDimmer Single takes the one-thing-well approach to LED dimming. It features an ultra-smooth dimming range using our patent-pending flicker-free circuit. Its connectivity is also quite simple. Using a 2.1 mm barrel input, LiteDimmer Single features our own custom-made panel-mounted barrel output connector. The interface includes a rotary knob that controls the dimming level. This knob has a hideaway feature that prevents accidental level changes and assists in storage. It also features a three mode switch that allows for manual cueing as well as a low mode that reduces the output by 2 F-Stops allowing fine control of low output levels. Finally, its housing is made of extruded, black-anodized aluminum with rubber bumpers that eliminate damage to sensitive surfaces.

02. - LITEDIMMER HYBRID

LiteDimmer Hybrid is a manually controlled, flicker-free LED dimmer. Designed exclusively for use on film, TV, and HD video sets, it offers control of Kelvin temperature along with brightness when used with VHO Pro Hybrid LiteRibbon™. Like its little brother, LiteDimmer Single, it features an ultra-smooth dimming range using our patent-pending flicker-free circuit. There are 2 versions, standard and Hi-Capacity. Including a 2.1 mm barrel input connector (standard) or a PH2 input connector (Hi-Capacity) and a HyConn output connector, LiteDimmer Hybrid's interface has 2 knobs, one for Kelvin, one for brightness. These knobs include a hideaway feature that prevents accidental level changes and assists in storage. It also features a three mode switch that provides on/off cueing along with several advanced modes. The LiteDimmer Hybrid is housed in an extruded, black-anodized aluminum case with rubber bumpers that eliminate damage to sensitive surfaces.

HARD LIGHT

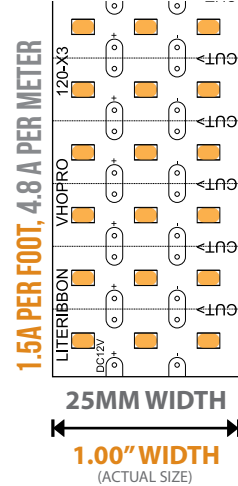
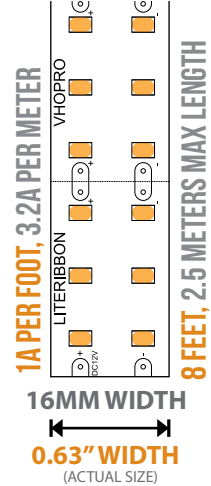
HIGH DENSITY, VHO 120

SMALL AND INTENSE

VHO 120 provides a concentrated, slightly "hard" output at about 1.5 watts per square inch. When specifying an intense light source for a small area, VHO 120 is a great choice. Available in Tungsten, Daylite, and tunable-white Hybrid

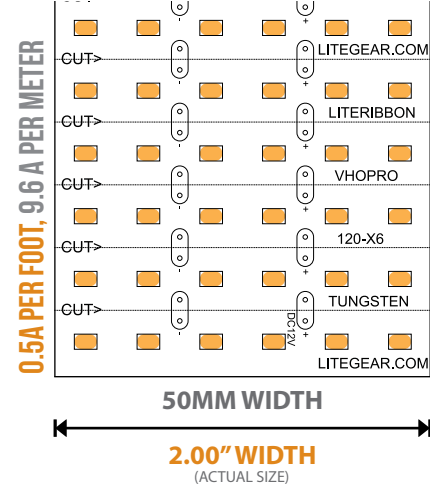


8MM PITCH
0.31 PITCH



3.2 FEET, 1 METER MAX LENGTH

Powering LiteGear LED products is about as simple as it gets. LiteRibbon™ is simply: 12V DC color-correct LEDs configured onto flexible material, cuttable and bussable from 1 inch to 16.4 feet.



8MM PITCH
0.315 PITCH

LAYOUT SPECIFICATIONS

X1

X2

X3

X6

SOFT LIGHT

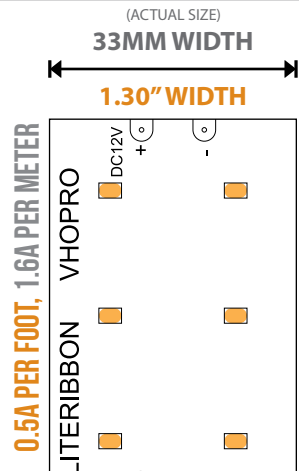
LOW DENSITY, VHO 60

SOFT AND SUBTLE

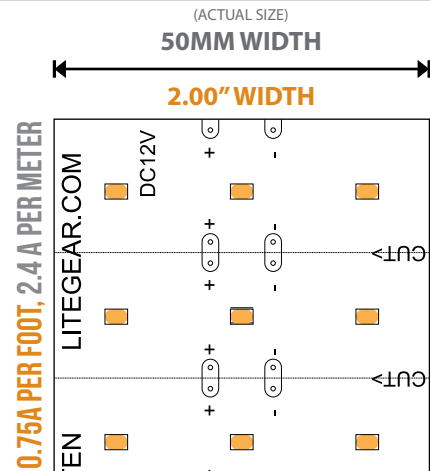
When more subdued light is required, VHO 60 provides an unmistakably soft light output. Clocking in at just 0.37 watts per square inch, it produces beautiful soft light without the need for diffusion filters. Available in Tungsten, Daylite, and tunable-white Hybrid



16MM PITCH
0.630 PITCH

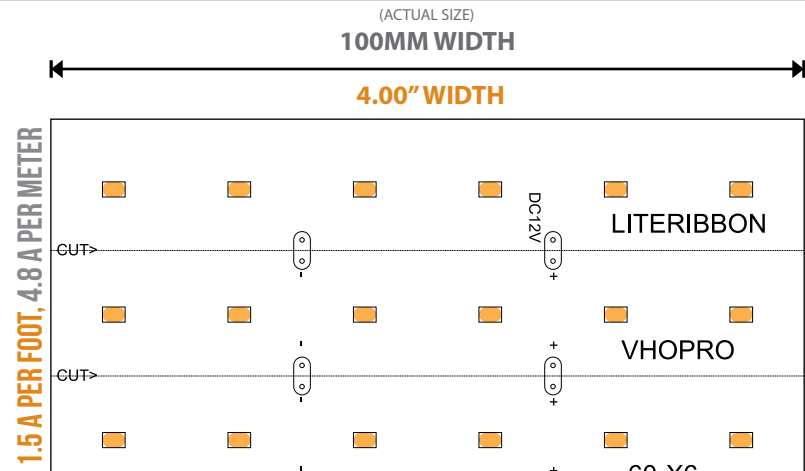


8 FEET, 2.5 METERS MAX LENGTH



3.2 FEET, 1 METER MAX LENGTH

16MM PITCH
0.630 PITCH



19.2 INCH, 0.5 METERS MAX LENGTH

OPTICAL SPECIFICATIONS FOR VHO PRO "HARD" 120

Series	Density	Rows Wide	Kelvin	CCT (K)	CRI	Lumens Per Meter/Unit	Beam Angle	CCT Consistency	Illuminance Fc @ 12"	Illuminance Fc @ 24"	Illuminance Fc @ 36"	Illuminance Fc @ 48"	Illuminance Fc @ 60"
VHO Pro	Hard 120	X1	Tungsten	3200	95	1072	120	+/- 100K	135 (19" x 39")	57 (34" x 44")	30 (48" x 57")	18.8 (64" x 70")	12.5 (80" x 86")
VHO Pro	Hard 120	X1	Daylite	6000	95	1218	120	+/- 100K	153 (19" x 39")	64 (34" x 44")	33.6 (48" x 57")	21 (64" x 70")	14.5 (80" x 86")
VHO Pro	Hard 120	X1	Hybrid	3200 ~ 6000	95	1145	120	+/- 100K	144 (19" x 39")	60.5 (34" x 44")	31.9 (48" x 57")	19.9 (64" x 70")	13.5 (80" x 86")
VHO Pro	Hard 120	X2	Tungsten	3200	95	2144	120	+/- 100K	270 (19" x 39")	114 (34" x 44")	60 (48" x 57")	38 (64" x 70")	25 (80" x 86")
VHO Pro	Hard 120	X2	Daylite	6000	95	2432	120	+/- 100K	306 (19" x 39")	128 (34" x 44")	68 (48" x 57")	42 (64" x 70")	29 (80" x 86")
VHO Pro	Hard 120	X2	Hybrid	3200 ~ 6000	95	2292	120	+/- 100K	288 (19" x 39")	121 (34" x 44")	64 (48" x 57")	40 (64" x 70")	27 (80" x 86")
VHO Pro	Hard 120	X3	Tungsten	3200	95	3216	120	+/- 100K	405 (19" x 39")	171 (34" x 44")	90 (48" x 57")	56 (64" x 70")	38 (80" x 86")
VHO Pro	Hard 120	X3	Daylite	6000	95	3648	120	+/- 100K	459 (19" x 39")	192 (34" x 44")	100 (48" x 57")	63 (64" x 70")	43 (80" x 86")
VHO Pro	Hard 120	X3	Hybrid	3200 ~ 6000	95	3438	120	+/- 100K	432 (19" x 39")	181 (34" x 44")	96 (48" x 57")	60 (64" x 70")	40 (80" x 86")
VHO Pro	Hard 120	X6	Tungsten	3200	95	1608*	120	+/- 100K	411 (15" x 20")	110 (30" x 33")	51 (44" x 48")	29 (60" x 62")	19.2 (75" x 78")
VHO Pro	Hard 120	X6	Daylite	6000	95	1812*	120	+/- 100K	476 (15" x 20")	129 (30" x 33")	59 (44" x 48")	34 (60" x 62")	22.4 (75" x 78")
VHO Pro	Hard 120	X6	Hybrid	3200 ~ 6000	95	1719*	120	+/- 100K	394 (15" x 20")	115.5 (30" x 33")	54 (44" x 48")	31.2 (60" x 62")	20.6 (75" x 78")

* Total lumens per unit

VHO - X1, X2, and X3 measurements taken using a one meter length in horizontal orientation @ 12V DC input

VHO - X6 measurements taken using a single unit (0.5m length) in horizontal orientation @ 12V DC input

Illuminance spread shown in (height x width) at 50% fall off

Measurements made in a controlled environment

OPTICAL SPECIFICATIONS FOR VHO PRO "SOFT" 60

Series	Density	Rows Wide	Kelvin	CCT (K)	CRI	Lumens Per Meter/Unit	Beam Angle	CCT Consistency	Illuminance Fc @ 12"	Illuminance Fc @ 24"	Illuminance Fc @ 36"	Illuminance Fc @ 48"	Illuminance Fc @ 60"
VHO Pro	Soft 60	X1	Tungsten	3200	95	536	120	+/- 100K	74 (19" x 39")	32.4 (34" x 44")	15.8 (48" x 57")	9.9 (64" x 70")	6.6 (80" x 86")
VHO Pro	Soft 60	X1	Daylite	6000	95	609	120	+/- 100K	84 (19" x 39")	34.2 (34" x 44")	18.2 (48" x 57")	11.3 (64" x 70")	7.5 (80" x 86")
VHO Pro	Soft 60	X1	Hybrid	3200 ~ 6000	95	572	120	+/- 100K	79 (19" x 39")	33.3 (34" x 44")	17 (48" x 57")	10.6 (64" x 70")	7 (80" x 86")
VHO Pro	Soft 60	X2	Tungsten	3200	95	1072	120	+/- 100K	135 (19" x 39")	57 (34" x 44")	30 (48" x 57")	18.8 (64" x 70")	12.5 (80" x 86")
VHO Pro	Soft 60	X2	Daylite	6000	95	1216	120	+/- 100K	153 (19" x 39")	64 (34" x 44")	33.6 (48" x 57")	21 (64" x 70")	14.5 (80" x 86")
VHO Pro	Soft 60	X2	Hybrid	3200 ~ 6000	95	1145	120	+/- 100K	144 (19" x 39")	60.5 (34" x 44")	31.9 (48" x 57")	19.9 (64" x 70")	13.5 (80" x 86")
VHO Pro	Soft 60	X3	Tungsten	3200	95	1608	120	+/- 100K	202 (19" x 39")	86 (34" x 44")	45 (48" x 57")	28 (64" x 70")	19 (80" x 86")
VHO Pro	Soft 60	X3	Daylite	6000	95	1824	120	+/- 100K	230 (19" x 39")	96 (34" x 44")	50 (48" x 57")	32 (64" x 70")	22 (80" x 86")
VHO Pro	Soft 60	X3	Hybrid	3200 ~ 6000	95	1719	120	+/- 100K	216 (19" x 39")	91 (34" x 44")	48 (48" x 57")	30 (64" x 70")	20 (80" x 86")
VHO Pro	Soft 60	X6	Tungsten	3200	95	1608*	120	+/- 100K	312 (15" x 22")	102 (31" x 36")	46 (46" x 49")	28.4 (62" x 67")	18.8 (75" x 81")
VHO Pro	Soft 60	X6	Daylite	6000	95	1827*	120	+/- 100K	396 (15" x 22")	128 (31" x 36")	61 (46" x 49")	35.4 (62" x 67")	23.6 (75" x 81")
VHO Pro	Soft 60	X6	Hybrid	3200 ~ 6000	95	1719*	120	+/- 100K	403.5 (15" x 22")	119 (31" x 36")	56 (46" x 49")	32.2 (62" x 67")	21.4 (75" x 81")

* Total lumens per unit

VHO - X1, X2, and X3 measurements taken using a one meter length in horizontal orientation @ 12V DC input

VHO - X6 measurements taken using a single unit (0.5m length) in horizontal orientation @ 12V DC input

Illuminance spread shown in (height x width) at 50% fall off

Measurements made in a controlled environment

MECHANICAL / ELECTRICAL SPECIFICATIONS VHO PRO “HARD” 120

Series	Density	Rows Wide	Kelvin	Width (mm)	Max. Length (mm)	Height (mm)	LED Pitch (mm)	Segments Per Meter	Minimum Segment Length (mm)	LEDs Per Meter	Drive Current (mA per Meter)	Power Consumption (W/Meter)
VHO Pro	Hard 120	X1	Tungsten	10	5000	1.8	8.3	40	25	120	1600 (1.6A)	19.2
VHO Pro	Hard 120	X1	Daylite	10	5000	1.8	8.3	40	25	120	1600 (1.6A)	19.2
VHO Pro	Hard 120	X1	Hybrid	10	5000	1.8	8.3	20	50	120	1600 (1.6A)	19.2
VHO Pro	Hard 120	X2	Tungsten	16	2500	1.8	8.3	40	25	240 (120 x 2)	3200 (3.2A)	38.4
VHO Pro	Hard 120	X2	Daylite	16	2500	1.8	8.3	40	25	240 (120 x 2)	3200 (3.2A)	38.4
VHO Pro	Hard 120	X2	Hybrid	16	2500	1.8	8.3	40	25	240 (120 x 2)	3200 (3.2A)	38.4
VHO Pro	Hard 120	X3	Tungsten	25	1000	1.8	8.3	120	8.3	360 (120 x 3)	4800 (4.8A)	57.6
VHO Pro	Hard 120	X3	Daylite	25	1000	1.8	8.3	120	8.3	360 (120 x 3)	4800 (4.8A)	57.6
VHO Pro	Hard 120	X3	Hybrid	25	1000	1.8	8.3	60	16	360 (120 x 3)	4800 (4.8A)	57.6
VHO Pro	Hard 120	X6	Tungsten	50	250	1.8	8.3	120 (30 Per Unit)	8.3	720 (120 x 6) (180 per unit)	9600 (2.4A per unit)	115.2 (28.8 per unit)
VHO Pro	Hard 120	X6	Daylite	50	250	1.8	8.3	120 (30 Per Unit)	8.3	720 (120 x 6) (180 per unit)	9600 (2.4A per unit)	115.2 (28.8 per unit)
VHO Pro	Hard 120	X6	Hybrid	50	250	1.8	8.3	120 (30 Per Unit)	8.3	720 (120 x 6) (180 per unit)	9600 (2.4A per unit)	115.2 (28.8 per unit)

Rated Life: 50,000 Hours • RoHs Compliant • Recommended for indoor use only

Operating Voltage Range: 8 ~ 13.5 (12V DC nominal) • Watts per emitter, 0.16 each

Connection Method: Solder Type • Mounting method: Pressure-sensitive adhesive (See LiteGear “Ribbon Tape” for replacement.)

Operating Ambient Temp: -20 ~ +50°C

In X1 and X2 form, Hybrid products have 6 emitters per segment; Tungsten and Daylite have 3.

In X2 and X6 form, Tungsten, Daylite, and Hybrid products have 6 emitters per segment.

MECHANICAL / ELECTRICAL SPECIFICATIONS FOR VHO PRO “SOFT” 60

Series	Density	Rows Wide	Kelvin	Width (mm)	Max. Length (mm)	Height (mm)	LED Pitch (mm)	Segments Per Meter	Minimum Segment Length (mm)	LEDs Per Meter	Drive Current (mA per Meter)	Power Consumption (W/Meter)
VHO Pro	Soft 60	X1	Tungsten	10	5000	1.8	16.6	20	50	60	800 (0.8A)	9.6
VHO Pro	Soft 60	X1	Daylite	10	5000	1.8	16.6	20	50	60	800 (0.8A)	9.6
VHO Pro	Soft 60	X1	Hybrid	10	5000	1.8	16.6	10	100	60	800 (0.8A)	9.6
VHO Pro	Soft 60	X2	Tungsten	33	2500	1.8	16.6	20	50	120 (60 x 2)	1600 (1.6A)	19.2
VHO Pro	Soft 60	X2	Daylite	33	2500	1.8	16.6	20	50	120 (60 x 2)	1600 (1.6A)	19.2
VHO Pro	Soft 60	X2	Hybrid	33	2500	1.8	16.6	20	50	120 (60 x 2)	1600 (1.6A)	19.2
VHO Pro	Soft 60	X3	Tungsten	50	1000	1.8	16.6	60	16.6	180 (60 x 3)	2400 (2.4A)	28.8
VHO Pro	Soft 60	X3	Daylite	50	1000	1.8	16.6	60	16.6	180 (60 x 3)	2400 (2.4A)	28.8
VHO Pro	Soft 60	X3	Hybrid	50	1000	1.8	16.6	30	33	180 (60 x 3)	2400 (2.4A)	28.8
VHO Pro	Soft 60	X6	Tungsten	100	500	1.8	16.6	60 (30 Per Unit)	16.6	360 (60 x 6) (180 per unit)	4800 (2.4A per unit)	57.6 (28.8 per unit)
VHO Pro	Soft 60	X6	Daylite	100	500	1.8	16.6	60 (30 Per Unit)	16.6	360 (60 x 6) (180 per unit)	4800 (2.4A per unit)	57.6 (28.8 per unit)
VHO Pro	Soft 60	X6	Hybrid	100	500	1.8	16.6	60 (30 Per Unit)	16.6	360 (60 x 6) (180 per unit)	4800 (2.4A per unit)	57.6 (28.8 per unit)

Rated Life: 50,000 Hours • RoHs Compliant • Recommended for indoor use only

Operating Voltage Range: 8 ~ 13.5 (12V DC nominal) • Watts per emitter, 0.16 each

Connection Method: Solder Type • Mounting method: Pressure-sensitive adhesive (See LiteGear “Ribbon Tape” for replacement.)

Operating Ambient Temp: -20 ~ +50°C

In X1 and X2 form, Hybrid products have 6 emitters per segment; Tungsten and Daylite have 3.

In X2 and X6 form, Tungsten, Daylite, and Hybrid products have 6 emitters per segment.



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SCAN TO SMS

LITE RIBBON™

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