

LITEMAT™

Handbook and Quick-Start Guide



LITEGEAR

LED LITEMAT

Introduction

USER MANUAL FOR LITEMAT 1, LITEMAT 2, LITEMAT 2L, LITEMAT 3, LITEMAT 4



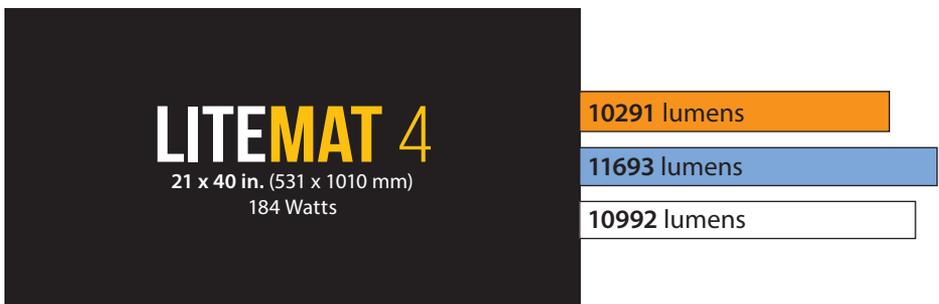
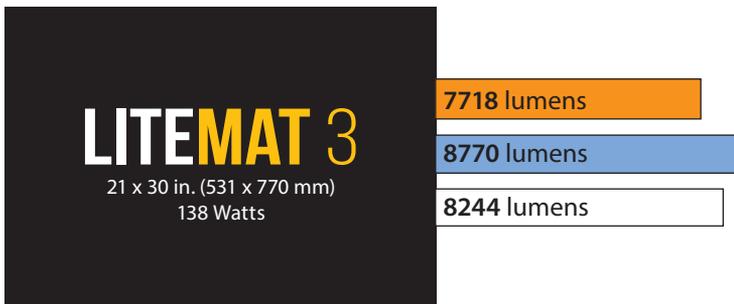
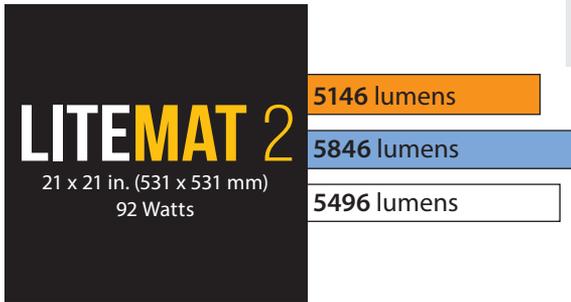
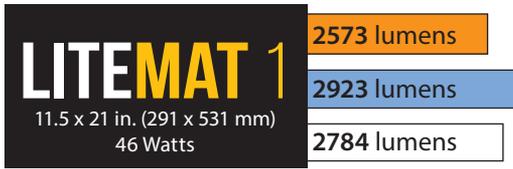
Congratulations on the purchase of your new LiteMat!

LiteMat is a unique and lightweight LED lighting fixture system designed for cinema, television, and HD video. Born out of the need for a color-correct light source that is lightweight yet durable, high quality yet economical, and simple yet cleverly fashioned, LiteMat takes a unique approach to lighting. By providing evenly spaced, color-correct LEDs spread out over a large area, LiteMat creates soft light without requiring diffusion. This “soft-through-pixelization” method allows the unit to achieve surprisingly bright light levels while remaining under 1” (25mm) thick in size and just 2.2 lb (1 kg) in weight.

We sincerely thank you for joining the LiteGear community by purchasing LiteMat. Since 2006 we have been working closely with filmmakers worldwide to help simplify cinema lighting by empowering users to create their own DIY lighting fixtures. Your new LiteMat is deeply rooted in this effort. We hope you enjoy using LiteMat, and be sure to try the sample LED LiteRibbon included with your purchase.

TECHNICAL INFORMATION

There are five sizes of LED LiteMat in Tungsten, Daylite, and Hybrid CCT.



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How to reach us?
Info: info@litegear.com (or your local dealer)
Customer Service: +1 (818) 358-8542
Help (phone): Call or SMS-Text +1 (818) 495-0600
Help (eMail): support@litegear.com
Help (online): www.litegear.com/help

-  Tungsten
-  Daylite
-  Hybrid

LABELING

What do all those colored tags mean?



What's with all the data? LiteMat is available in several sizes and can be controlled and powered by a variety of sources. Refer to the colored tags to ensure that you meet all power and control requirements.

Amps are displayed so you can match compatible LiteDimmers™ and LitePower™ sources.

12V DC is the operating voltage. All batteries, power supplies, and adapters must be limited to 12V (8V~13.5V).

Watts identify the maximum power consumption.

DC VOLTS	12	AMPS	3.8	WATTS	46
DENSITY	STD	POWER CAPACITY	LOW	CONNECTOR	PH3.F

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DESIGNED AND MADE IN CALIFORNIA, USA

The Density tag helps identify the relative density of the PCBs used on your LiteMat.

The Power Capacity tag, in addition to the Amps tag, helps identify the appropriate LiteDimmer and LitePower supply. Look for LOW, STD (standard), and HIGH.

The Connector tag specifies the electrical connector on the input lead. Mate a BAR.M with a BAR.F and a PH3.F with a PH3.M.

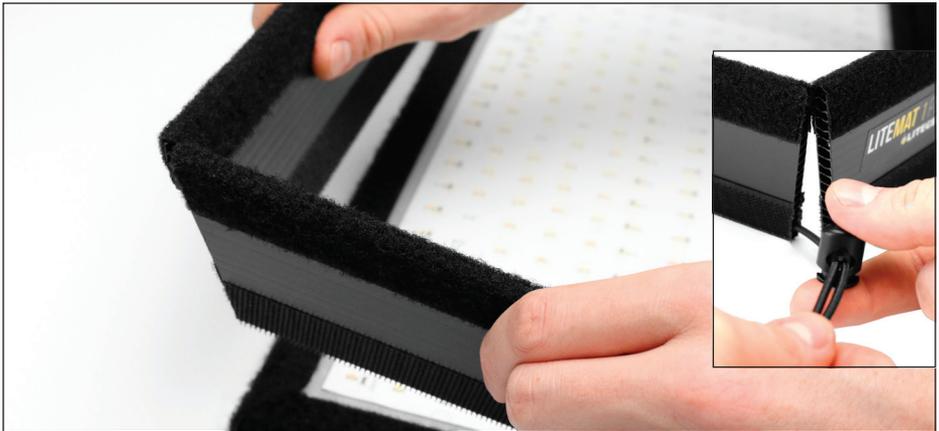
QUICK START GUIDE

Quick, step-by-step guide to get your LiteMat up and running.



1. Unpacking LiteMat

Your new LiteMat has been packaged to protect it during shipping. To begin, carefully remove all the components in your kit and recycle (or reuse) the plastic and cardboard materials.



2. Attaching the PolySkirt™

To attach the PolySkirt, begin by tightening the elastic cord lock. Next, align the PolySkirt over the LiteMat. Lastly, affix the PolySkirt to the LiteMat by firmly pressing it down into the Velcro® on the LiteMat fixture. Make sure the PolySkirt is evenly spaced and aligned on the LiteMat to avoid light leak.



Attach accessories first. It is much easier to attach accessories such as the PolySkirt and the diffusers before hanging your LiteMat or mounting it into a stand. When unpacking, **avoid using a knife** as your LiteMat and accessories could be damaged!

QUICK START GUIDE (CONT.)

Quick, step-by-step guide to get your LiteMat up and running.



3. Installing a diffuser

After securing the PolySkirt to the LiteMat, select the diffuser you would like to use, and ensure that the Velcro® fastener is positioned on the outside edge. Then, noting orientation, attach the Velcro® fastener section to the inside of the PolySkirt on its upper Velcro® perimeter.



4. Attaching the Parasquare® Louver

After attaching both the PolySkirt and the diffuser, position the Parasquare® Louver in front of the diffused LiteMat with the small squares toward the LiteMat and the larger squares facing outward. Next, securely fasten all provided Velcro® straps to the PolySkirt and LiteMat. Finish by ensuring that the Parasquare® Louver is securely fastened.



Using the Parasquare® Louver without a diffuser may create irregular results and is not recommended.

QUICK START GUIDE (CONT.)

Quick, step-by-step guide to get your LiteMat up and running.



5. Attaching the Center Mount

Start by aligning the guide-pin to the center hole on your LiteMat. Next, while holding the center mount at an “8 o’clock” position, align it with the holes on your LiteMat and rotate clockwise until you hear the click.



6. Hanging LiteMat

Begin by unscrewing the T-handle on the 5/8 in. (16 mm) Baby pin receiver on the Center Mount attached to the LiteMat. Insert the 5/8-in. (16 mm) Baby pin from the clamp/mount into the pin receiver on the Center Mount. Next, attach a safety cable or mason line to the overhead support and then through the provided safety loop on the LiteMat. Continue by providing electrical connections to the LiteDimmer and power supply.



Great care must be taken when mounting overhead. Hanging a LiteMat should be attempted by professionals only.

QUICK START GUIDE (CONT.)

Quick, step-by-step guide to get your LiteMat up and running.



7. Mounting LiteMat on a stand

Be sure the stand is equipped with a 5/8 inch (16 mm) pin, and then setup the stand. Next, unscrew the 5/8 inch (16 mm) pin receiver on the Center Mount attached to the LiteMat until it is clear to accept the stand pin. Follow by tightening the 5/8 inch (16 mm) pin receiver around the stand pin until snug.



8. Powering LiteMat with LiteDimmer

To control your LiteMat, begin by preparing your power supply. If you did not buy your LiteMat in a preconfigured kit, be sure the power supply is 12V DC and capable of the appropriate amperage for continuous duty. Next, untie the power supply cables and connect the small, round female Barrel connector from the power supply to the LiteDimmer power input connector. Continue by connecting the LED output of the LiteDimmer to the input of the LiteMat (an extension may be required and/or desired). Then, ensure that the LiteDimmer power switch is set to OFF and provide AC power to the power supply. On the LiteDimmer, move the power switch to either the ON or LOW/ALT position (depending on the LiteDimmer you are using) and adjust the control(s) to the desired level(s). Your LiteMat should now be operational.

QUICK START GUIDE (CONT.)

Quick, step-by-step guide to get your LiteMat up and running.



9. Powering LiteMat directly (without LiteDimmer)

Daylite and Tungsten LiteMats may be powered directly from a power supply with no inline LiteDimmer. If you did not buy your LiteMat in a preconfigured kit, be sure the power supply is 12V DC and capable of the appropriate amperage for continuous duty. Next, untie the power supply cables and connect the small, round female Barrel connector from the power supply to the input of the LiteMat (an extension may be required and/or desired). Then, provide AC power to the power supply. Your LiteMat should now be operational.



You can add **extensions** up to 24 feet in length, if required and/or desired.



10. Adjusting the Center Mount

Begin by loosening the adjustable handle 180° while holding the LiteMat with your other hand. Next, pan, tilt, or rotate LiteMat to the desired position and tighten the adjustable handle. The handle can be adjusted to allow additional force by pulling out and rotating it into a new position.

QUICK START GUIDE (CONT.)

Quick, step-by-step guide to get your LiteMat up and running.



11. Storing LiteMat with optional KitBag

LiteMat is designed for dry, indoor use only. After use, start by disassembling each LiteMat accessory. Next, place the LiteMat and each accessory into the KitBag - LiteMat on its own and the PolySkirt and ParaSquare® Louver together in the adjoining compartment. The set of diffusers are to be stored in the upper outside pouches; start by folding each diffuser to minimize wrinkling. Then, stow the LiteDimmer, power supply, Center Mount, and cables in the lower pouch. The LiteMat KitBag is provided with additional copy of the product label inserted into the clear window on the KitBag for easy identification of its contents. This bag is specifically designed to protect your gear from “everyday” damage due to environmental conditions.



12. What's Next?

Be sure to activate your warranty by logging on to <http://www.litemat.com>.

Along with warranty information, we can keep you updated on what's new with LiteMat!

ACCESSORIES

Images and part numbers.



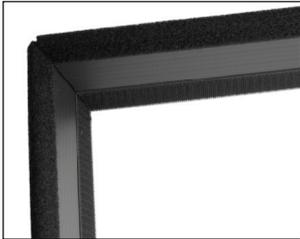
KitBag

- LMA-ONE-BAG *
- LMA-TWO-BAG
- LMA-TWO-L-BAG
- LMA-THREE-BAG
- LMA-FOUR-BAG



LiteDimmer

- LD-SINGLE-MICRO
- LD-SINGLE*
- LD-SINGLE-HYBRID
- LD-SINGLE-HICAP
- LD-HYBRID
- LD-HYBRID-HICAP



PolySkirt

- LMA-ONE-SKIRT *
- LMA-TWO-SKIRT
- LMA-TWO-L-SKIRT
- LMA-THREE-SKIRT
- LMA-FOUR-SKIRT



LitePower

- PS-12V-4A-F-UL
- PS-12V-8A-F-UL*
- PS-12V-15A-F



Diffuser

- LMA-ONE-DIFF*
- LMA-TWO-DIFF
- LMA-TWO-L-DIFF
- LMA-THREE-DIFF
- LMA-FOUR-DIFF

Available in Full, Half and Quarter Diffusion



Extension Cable

- CA-BAR-EXT-12F*
- CA-PH2-EXT-12F
- CA-HY-EXT-12F-FLAT-B



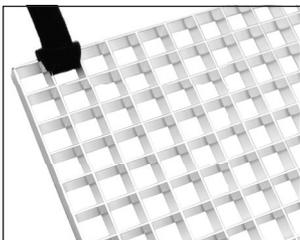
Center Mount

- LMA-MOUNT-S *



AA Battery Adapter

- BA-BAA-ENC*



Parasquare Louver

- LMA-ONE-LC-GRID*
- LMA-TWO-LC-GRID
- LMA-TWO-L-LC-GRID
- LMA-THREE-LC-GRID
- LMA-FOUR-LC-GRID



Cigarette Auto Adapter

- CA-CIG-M-BAR-F*



D-Tap Adapter

- CA-DTAP-BAR-F*

* Item Pictured

TYPE NUMBERS AND ACCESSORIES

Compatibility chart.

Description	Type #	ONE (TUN)	ONE (DAY)	ONE (HY)	TWO (TUN)	TWO (DAY)	TWO (HY)	TWO-L (TUN)	TWO-L (DAY)	TWO-L (HY)	THREE (TUN)	THREE (DAY)	THREE (HY)	FOUR (TUN)	FOUR (DAY)	FOUR (HY)
Tungsten Kit	LMK-___-TUN-COMP	√			√			√			√			√		
Daylite Kit	LMK-___-DAY-COMP		√			√			√			√			√	
Hybrid Kit	LMK-___-HY-COMP			√			√			√			√			√
Tungsten LiteMat	LM-___-TUN-HEAD	√			√			√			√			√		
Daylite LiteMat	LM-___-DAY-HEAD		√			√			√			√			√	
Hybrid LiteMat	LM-___-HY-HEAD			√			√			√			√			√
PolySkirt	LMA-___-SKIRT	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Diffuser (Full)	LMA-___-DIFF-F	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Diffuser (Half)	LMA-___-DIFF-H	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Diffuser (Qtr)	LMA-___-DIFF-Q	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Parasquare Louver	LMA-___-PARASQUARE	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Center Mount	LMA-MOUNT-S	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
KitBag	LMA-___-BAG	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
LiteDimmer Single Micro	LD-SINGLE-MICRO	√Δ	√Δ													
LiteDimmer Single	LD-SINGLE	√	√		√	√		√	√							
LiteDimmer Single HiCap	LD-SINGLE-HICAP	√Δ	√Δ		√Δ	√Δ		√Δ	√Δ		√Δ	√Δ		√Δ	√Δ	
LiteDimmer Hybrid	LD-HYBRID			√			√			√			√*			√*
LiteDimmer Hybrid HiCap	LD-HYBRID-HICAP			√			√			√			√			√
Power Supply Low Cap 4A	PS-12V-4A-F-UL	√	√	√												
Power Supply Std Cap PS 8A	PS-12V-8A-F-UL	√	√	√	√	√	√	√	√				√*			√*
Power Supply Hi Cap PS 15A	PS-12V-15A-F	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Single Ext 12' Low/Std Cap	CA-BAR-EXT-12F	√	√		√	√		√	√		√√	√√		√√	√√	
Single Ext 12' Hi Cap	CA-PH2-EXT-12F										√	√		√	√	
Hybrid Ext 12' Low/Std/Hi Cap	CA-HY-EXT-12F-FLAT-B			√			√			√			√			√
Cigarette Auto Adapter	CA-CIG.M-BAR.F	√	√	√	√	√	√	√	√	√						
D-Tap Adapter	CA-DTAP-BAR.F	√	√	√	√	√	√	√	√	√						
AA Battery Adapter	BA-8AA-ENC	√	√	√	√	√	√	√	√	√						

√ = Available.

√* = In Hybrid Mode only.

√√ = Two cables required for operation.

√Δ = Available in 2015.

SPECIFICATIONS

Optical, photometric, and mechanical Data.

Series		Kelvin	CCT (K)	CRI	TLCI (2012)	Lumens	F.C. /Lux @ 12" (Size)	F.C. /Lux @ 24" (Size)	F.C. /Lux @ 36" (Size)	F.C. /Lux @ 48" (Size)	F.C. /Lux @ 5' (Size)	F.C. /Lux @ 6' (Size)	F.C. /Lux @ 8' (Size)
LiteMat	1	Tungsten	3200	95	89	2573	599 / 6442 (18" x 22")	205 / 2211 (32" x 34")	100 / 1080 (48" x 48")	60 / 646 (66" x 64")	41 / 444 (80" x 78")	30 / 319 (100" x 96")	19 / 206 (131" x 124")
LiteMat	1	Daylite	6000	95	95	2923	666 / 7168 (18" x 22")	229 / 2460 (32" x 34")	112 / 1202 (48" x 48")	67 / 719 (66" x 64")	46 / 494 (80" x 78")	33 / 355 (100" x 96")	21 / 229 (131" x 124")
LiteMat	1	Hybrid	3200-6000	95	92	2784	632 / 6805 (18" x 22")	217 / 2336 (32" x 34")	106 / 1141 (48" x 48")	63 / 683 (66" x 64")	44 / 469 (80" x 78")	31 / 337 (100" x 96")	20 / 217 (131" x 124")
LiteMat	2	Tungsten	3200	95	89	5146	1080 / 11622 (22" x 22")	376 / 4042 (36" x 36")	188 / 2021 (50" x 48")	113 / 1213 (70" x 64")	75 / 808 (86" x 80")	55 / 596 (106" x 98")	35 / 382 (138" x 126")
LiteMat	2	Daylite	6000	95	95	5846	1201 / 12930 (22" x 22")	418 / 4498 (36" x 36")	209 / 2249 (50" x 48")	125 / 1349 (70" x 64")	84 / 900 (86" x 80")	62 / 663 (106" x 98")	39 / 424 (138" x 126")
LiteMat	2	Hybrid	3200-6000	95	92	5496	1140 / 12276 (22" x 22")	397 / 4270 (36" x 36")	198 / 2135 (50" x 48")	119 / 1281 (70" x 64")	79 / 854 (86" x 80")	59 / 630 (106" x 98")	37 / 403 (138" x 126")
LiteMat	2L	Tungsten	3200	95	89	5146	764 / 8227 (20" x 38")	315 / 3392 (34" x 46")	170 / 1828 (50" x 58")	108 / 1158 (68" x 72")	75 / 813 (84" x 88")	59 / 630 (104" x 108")	35 / 374 (135" x 132")
LiteMat	2L	Daylite	6000	95	95	5846	850 / 9153 (20" x 38")	351 / 3774 (34" x 46")	189 / 2034 (50" x 58")	120 / 1288 (68" x 72")	84 / 904 (84" x 88")	65 / 701 (104" x 108")	39 / 417 (135" x 132")
LiteMat	2L	Hybrid	3200-6000	95	92	5496	807 / 8690 (20" x 38")	333 / 3583 (34" x 46")	179 / 1931 (50" x 58")	114 / 1223 (68" x 72")	80 / 858 (84" x 88")	62 / 665 (104" x 108")	37 / 396 (137" x 133")
LiteMat	3	Tungsten	3200	95	89	7718	1253 / 13485 (24" x 30")	490 / 5271 (36" x 40")	252 / 2707 (52" x 54")	154 / 1655 (70" x 70")	106 / 1144 (86" x 86")	79 / 848 (106" x 106")	51 / 545 (137" x 133")
LiteMat	3	Daylite	6000	95	95	8770	1394 / 15005 (24" x 30")	545 / 5865 (36" x 40")	280 / 3012 (52" x 54")	171 / 1841 (70" x 70")	118 / 1273 (86" x 86")	88 / 943 (106" x 106")	56 / 607 (137" x 133")
LiteMat	3	Hybrid	3200-6000	95	92	8244	1323 / 14244 (24" x 30")	517 / 5568 (36" x 40")	266 / 2860 (52" x 58")	162 / 1748 (70" x 70")	112 / 1209 (86" x 86")	83 / 896 (106" x 106")	54 / 576 (137" x 133")
LiteMat	4	Tungsten	3200	95	89	10291	1382 / 14875 (24" x 38")	591 / 6366 (38" x 46")	329 / 3544 (52" x 58")	208 / 2242 (72" x 74")	146 / 1575 (88" x 88")	109 / 1170 (110" x 108")	65 / 701 (141" x 132")
LiteMat	4	Daylite	6000	95	95	11693	1538 / 16550 (24" x 38")	658 / 7082 (38" x 46")	366 / 3943 (52" x 58")	232 / 2495 (72" x 74")	163 / 1752 (88" x 88")	121 / 1302 (110" x 108")	72 / 780 (141" x 132")
LiteMat	4	Hybrid	3200-6000	95	92	10992	1460 / 15713 (24" x 38")	625 / 6724 (38" x 46")	348 / 3743 (52" x 58")	220 / 2368 (72" x 74")	155 / 1664 (88" x 88")	115 / 1236 (110" x 108")	69 / 740 (141" x 132")

Series	Kelvin	Height (inch)	Height (mm)	Width (inch)	Width (mm)	Depth (inch)	Depth (mm)	Weight (lbs)	Voltage (V DC)	Current (Amps)	Watts	LED Qty	
LiteMat	1	Tungsten	21	533	11.5	292	0.9	23	2.3	12	3.8	46	288
LiteMat	1	Daylite	21	533	11.5	292	0.9	23	2.3	12	3.8	46	288
LiteMat	1	Hybrid	21	533	11.5	292	0.9	23	2.3	12	3.8	46	288
LiteMat	2	Tungsten	21	533	21	533	0.9	23	3.5	12	7.7	92	576
LiteMat	2	Daylite	21	533	21	533	0.9	23	3.5	12	7.7	92	576
LiteMat	2	Hybrid	21	533	21	533	0.9	23	3.5	12	7.7	92	576
LiteMat	2L	Tungsten	40	1016	11.5	292	0.9	23	3.5	12	7.7	92	576
LiteMat	2L	Daylite	40	1016	11.5	292	0.9	23	3.5	12	7.7	92	576
LiteMat	2L	Hybrid	40	1016	11.5	292	0.9	23	3.5	12	7.7	92	576
LiteMat	3	Tungsten	30.5	775	21	533	0.9	23	4.7	12	11.5	138	864
LiteMat	3	Daylite	30.5	775	21	533	0.9	23	4.7	12	11.5	138	864
LiteMat	3	Hybrid	30.5	775	21	533	0.9	23	4.7	12	11.5	138	864
LiteMat	4	Tungsten	40	1016	21	533	0.9	23	5.7	12	15.4	184	1152
LiteMat	4	Daylite	40	1016	21	533	0.9	23	5.7	12	15.4	184	1152
LiteMat	4	Hybrid	40	1016	21	533	0.9	23	5.7	12	15.4	184	1152

All LiteMat units feature a 120 degree beam angle and 50,000 hours of operation under typical conditions. Test equipment used for collecting specifications: Optical Equipment: UPR Tech MK350D and Spectra Cine IV "A" model. Power Equipment: Meanwell GS220A12-R7B at 12.0V DC. Camera Strobing: Proprietary CineHz Frequency Meter.

TROUBLESHOOTING AND MAINTENANCE

Tips to get you back to work.

Troubleshooting

My LiteMat is plugged into a LiteDimmer that is being supplied with 12V DC power, but it is not turning on. What should I do?

If you have multiple LiteMat setups, try swapping power supplies, LiteDimmers, and cables one at a time until operation is restored.

1. Verify that your LiteDimmer is working properly. Using the sample LiteRibbon provided with your LiteMat or other LiteRibbon that is known to be working, plug the LiteRibbon into your LiteDimmer along with 12V DC power, and turn the LiteDimmer on.

- The LiteDimmer works! Proceed to Step #3.
- The indicator light on my LiteDimmer is not turning on even though I turned the LiteDimmer on. (Proceed to Step #2.)
- The indicator light on my LiteDimmer is on but is not a steady color. (Proceed to Step #4.)

2. Verify that your power supply is working properly. Using the sample LiteRibbon provided with your LiteMat or other LiteRibbon that is known to be working, plug the LiteRibbon directly into your power supply, using the power adapter provided with your LiteDimmer if applicable.

- The power supply works! Proceed to Step #4.
- The power supply does not work. Replace the power supply, and repeat Step #1.

3. Your LiteDimmer and power supply are working. Checking the colored tags on your LiteMat (see “Labeling” on page 5 for more information on the colored tags), verify that you are using the appropriate LiteDimmer and power supply.

- I am using the correct LiteDimmer and power supply. Check the input connector on the LiteMat to ensure that there is no damage. If it appears to be acceptable, contact the LiteGear Repair Department.
- I am not using the correct LiteDimmer and/or power supply. One component at a time, replace the LiteDimmer and/or the power supply, depending on which one did not meet minimum operational requirements. Repeat Step #1 if you replaced the LiteDimmer or Step #2 if you replace the power supply.

4. Your LiteDimmer is not working properly. Please refer to the “Troubleshooting” section of the LiteDimmer User’s Guide provided with your LiteDimmer, or visit <http://www.litegear.com/support/document/>, and find the appropriate LiteDimmer User’s Guide online.

5. Still not working? Contact the LiteGear Customer Service Department to provide a detailed explanation of the problem(s) with your LiteMat and to obtain a Return Materials Authorization (RMA) number.

Maintenance

As you use your LiteMat, you should keep a few things in mind to help maintain the quality of your LiteMat.

1. Keep your LiteMat clean!

Be sure to unplug all components before cleaning. Using glass or plastic cleaner, or simply a damp cloth, maintain the cleanliness of the surfaces of your LiteMat, paying particular attention to the protective clear plastic covering. Dirt and debris could impair light output and light quality.

2. Check the wire and connectors!

Especially after repeated use, the integrity of the wire and connectors could become compromised. Check the wire to ensure there are no cuts in the insulation and that there is no exposed copper wire. If there is any exposed copper, insulate the affected area with electrical tape or heat shrink, or contact the LiteGear Repair Department for other suggestions. Also, inspect the connector on your LiteMat’s input lead for any physical damage. If a connector needs to be replaced, contact the LiteGear Repair Department.

3. Be careful with Velcro®!

The Velcro® fastener used to make your LiteMat so versatile and lightweight may lose some of its strength over time with repeated use. To minimize this wear, try to keep dirt and debris from being caught in the hook or loop fastener of the Velcro®. Also, be mindful of the force applied to the Velcro® when adding or removing various accessories. Too much force could compromise the integrity of the adhesive that keeps the Velcro® cleanly attached to your LiteMat or other accessories.

4. Make sure to properly store your LiteMat!

We have designed the LiteMat KitBag to be the perfect vessel for your LiteMat when it is not lighting your next commercial, television show, or feature film. Be sure to keep the LiteMat from being crushed, stepped on, or otherwise damaged, as the LEDs themselves are very sensitive electronic components.



LITEGEAR

SPECIALTY LIGHTING GEAR FOR CINEMA, TV, AND HD VIDEO

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Please place your
LiteMat serial label here.



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