

User Guide

PLEASE READ & SAVE THESE ORIGINAL INSTRUCTIONS

Silk®

pure, soft white light



TABLE OF CONTENTS

| Introduction | 4 |
|----------------------|---|
| Important Safeguards | 5 |
| Unpacking | |
| Controls | |
| Operation | |
| Power On | |
| Manual Control | |
| Menu Summary | |
| DMX Control | |
| Specifications | |
| Accessory Mounting | |
| Updating Firmware | |
| Troubleshooting | |
| Warranty | |

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INTRODUCTION

Congratulations on your purchase of a Rosco Silk LED fixture. Engineered to meet the requirements of the most discerning filmmaker, the Silk series LED lighting system has been specifically developed for film and video applications that demand extremely color-accurate, high-quality light.

Your new Silk fixture will create a high volume of enticingly soft, broad spectrum white light utilizing state-of-the-art tungsten and daylight balanced LEDs. Silk LED fixtures feature a non-glare diffuser that provides uniform, single-source light that gently embraces its subjects, making it the perfect fixture for illuminating feature films and television productions, on stage or on location.

IMPORTANT SAFEGUARDS

The symbols below are used throughout this manual to identify important safety information. Heed all warnings and safety information.

| SYMBOL | MEANING |
|--------|-------------------------------------------------------------------------|
| | WARNING, DANGER OR CAUTION Risk of injury to yourself or the product |
| 4 | RISK OF ELECTRICAL SHOCK Risk of severe electrical shock |

PREVENTING ELECTRIC SHOCK

- This fixture uses mains electrical power at 100 240 VAC. When directly contacted, such voltages are hazardous to human life. Follow all local electrical codes and take precautions when using this product.
- This product is designed to operate from three-wire power systems, where one of the wires is a safety ground. DO NOT disconnect the safety ground, or use extension cords or adapter plugs to connect this machine to a two-wire system. Operation without a safety ground may result in hazardous electrical shock.
- Use only extension cords that are of appropriate length and are rated for Silk® specified voltage and current. If an extension cord shows signs of wear or gets warm to the touch, discontinue its use and obtain a cord with a higher current rating. Improper extension cords are hazardous and may result in poor performance due to excessive voltage drop.
- Disconnect fixture from power source before servicing and when not in use.

IMPORTANT HEALTH & SAFETY INFORMATION

Silk lighting fixtures use high strength magnets on the front face

Do not place within 12" (300mm) of credit cards

Magnets can adversely affect heart pacemakers



- Use only Rosco spare parts and accessories so as to not void the warranty.
- Allow the fixture to cool before attempting to service. Silk LED fixtures must only be serviced by a qualified technician.
- Silk LED fixtures are not intended for residential use. Use only in a professional studio or mobile broadcast environment by trained personnel under proper training and supervision. Keep out of reach from children. Children shall be supervised to ensure that they do not play with the fixture.
- Silk LED fixtures are capable of reaching a maximum surface temperature of 185°F (85°C). Keep minimum 4" (10cm) distance away from flammable materials / objects. The top of the unit may become hot to the touch during operation. Contact during or immediately following operation may result in burns.
- Silk LED fixtures are IP20 rated for indoor use and/or a dry environment. Do not operate outdoors in a wet environment.



- Silk LED fixtures are not certified for use in hazardous locations.
- Silk LED fixtures are designed for operation within the range of 32° to 95°F (0° to + 35°C).
- Ensure Silk LED fixtures are stored within the range of 4° to 140°F (- 20° to + 60°C).
- Do not look directly into a Silk LED fixture for long periods of time, as prolonged exposure may be harmful to the eyes.
- High voltage and stored energy may be present inside the fixture. Only trained service personnel should engage in repairs.
- The use of a safety cable is strongly recommended when hung overhead. There are safety wire mounting ports in the extruded sides in all four corners.
- When suspended on the yoke, the yoke cannot be used as mounting point for secondary safety cable.
- All ventilation holes in the back plate must remain clear and are not to be obstructed during the operation of the fixture.
- This fixture is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

UNPACKING

Carefully remove the fixture from the box.

If there are any signs of physical damage to the fixture, contact your local Rosco dealer.

Your Rosco Silk LED fixture will arrive with a power supply detached from the fixture in the box.

Safety cables must be securely be attached using the designated slots on the Silk fixture (detailed on page 51) and be as short as possible to reduce travel distance if primary hanging accessory fails. The combined weight of fixture and accessories should be considered when choosing a suitable safety cable.

Ensure that the yoke locking handle is correctly tightened after positioning Silk. If the locking handle is not tightened correctly, the fixture may swing.

Silk 205 and Silk 305 are supplied with a right-angle mini-USB cable for future firmware updates.

CONTROLS

Silk LED fixtures can be controlled via the on-board, Control Panel located on the back of the fixture, or via user-supplied DMX512 data input.

Green Indicator LED: **REAR CONTROL PANEL** Left Rotary Knob: Power Mount for external Controls light Blue Indicator LED: The QR code will take you to the wireless antenna intensity DMX signal present Silk web page on the Rosco web site where you will find the latest manual PDF and application 0 100 見た notes. rosco Silk 205 48 6500 244 Max power 100 W See User Namaal For spectra is instruction 176 CED MODE DWA 0- 0 0 0 **Right Rotary Knob:** DMX/MODE SELECT Controls color temperature and accesses Power Switch Button to select DMX pre-sets with a push button. Also used address and access menus. during menu and DMX address selection.

DISPLAY

Top Left Top Right Bottom Left Bottom Right Dimming percentage DMX address Color temperature Input DC voltage



NOTE: If the input voltage drops below 13.5V, the input voltage will flash. (Only applies to 110, 210 and 205

OPERATION

POWERING ON

1. Silk LED fixtures are supplied with a standard 100-240 VAC switching power supply, which is mounted in a cradle on the rear of the unit. A lead with a 4 - pin XLR connector brings DC power from the power supply to the Silk.

- a. Silk LED fixtures can be powered by V-Mount batteries. Remove the power supply and cradle, and then replace it with an optional Silk V-Mount Cheeseplate Battery Holder.
- b. Silk LED fixtures can be powered by Anton/Bauer batteries. Remove the power supply and cradle, and then replace it with an optional Silk Anton/ Bauer Cheeseplate Battery Holder.

- 2. Make sure the 4-pin XLR connector from the power supply is plugged into the Silk, and then plug the power supply into mains power: 100 – 240 VAC. Then switch on the unit with the rocker switch on the User Interface.
 - a. The rear display will illuminate.
 - b. Settings will default to those in use when the unit was last powered down.
- 3. If desired connect the Silk LED fixture to a DMX console using the 5-pin XLR ports on the rear control panel.
 - a. The presence of a DMX input signal is automatically detected.
 - b. The Blue Indicator LED will illuminate.

POWER ON

Attach the power supply to the back of the unit and plug the XLR 4 connector into the fixture. Plug the IEC connector into the power supply. Turn fixture on using the toggle switch on the Control Panel.

Safety cables must be securely attached to the designated slots on the Silk fixture (detailed on page 51) and be as short as possible to reduce travel distance if primary hanging accessory fails. The combined weight of fixture and accessories should be considered when choosing a suitable safety cable.

Ensure that the yoke locking handle is correctly tightened after positioning Silk. If the locking handle is not tightened correctly, the fixture may swing.

INFORMATION

Silk LED fixutres have a digital serial number and firmware version, which is viewable on the initial LED display load screen.

This information is also accessible by pressing and holding down the DMX/MODE/SELECT button.

The display will revert to default once the button is released or with momentary push.

MANUAL CONTROL

- 1. Select the output level of the fixture by rotating the left-hand knob until the desired set point has been achieved. The current set point will be shown in the upper left-hand portion of the display.
- 2. Select the color temperature of the fixture by rotating the right-hand knob until the desired set point has been achieved.
 - a. Silk LED fixtures can be set to color temperatures ranging from 2800K to 6500K.
 - b. The current set point will be shown in the lower left portion of the LED display.
 - c. Seven pre-set color temperatures are stored in the fixture's control logic. Push the right-hand knob to choose the desired pre-set color temperature:

Preset Chart:

| 2900K 3200K 3600K | 4300K | 5000K | 5600K | 6500K |
|-------------------|-------|-------|-------|-------|
|-------------------|-------|-------|-------|-------|

NOTE: The rear LED display will automatically dim after several seconds if no inputs have been entered. The display will resume full illumination when the controls are operated.

SILK[®] LED V2 MENUS

Silk LED v2 has a range of additional menu choices to reach additional functionality.

- 8 or 16 bit dimming
- Dimming curves
- DMX modes
- Color profile
- Output profile
- Wireless antenna select
- Link/unlink wireless

To return all settings to default, turn the unit on with the DMX/MODE button pressed

Navigation in the menus uses parameter and choice using **1.1**, **1.2**, **2.1**, **2.2** etc and an ALPHA abbreviation.

| DMX Address | | 1-511/510 | |
|----------------------|-----|----------------------------------------------------|------------------------|
| 8 bit/16 bit dimming | g — | 8 bit 16 bit | 8bit 16bit |
| DMX mode | | Standard DMX Wireless DMX Silk is DMX master | StA rAd Con |
| Dimming curve | | Linear Square Law S curve Tungsten | Lin Squ S CCt |
| Color profile | - | Standard Linear | StA Lin |
| Output profile | | Standard Flat | StA FLA |
| Antenna selection | | Internal External | Int EtE |
| Wireless link | | Locked Unlink | Loc UnL |

To return all setting to standard defaults — hold down the MODE SELECT button while switching the unit on. All defaults will be selected.

MENU

8 OR 16 BIT DIMMING CONTROL OPTION

DMX dimming is now possible in 8 bit or 16 bit mode. 8 bit dimming uses one channel of DMX and therefore the only possible resolution is 256 discrete steps. With 16 bits a fixture can have 65536 steps. Whilst it would be impossible for the human eye or a camera set up to discern all the steps it does provide potential for smoother dimming. When it 16 bit mode, Silk uses 3 channels of DMX; dimming coarse, dimming fine, CCT.

1.1 8 bit dimming



1.2 16 bit dimming



CHOICE OF THREE DMX MODES

• Standard DMX (StA)

In standard DMX mode, Silk uses 2 channels of DMX to control intensity and colour temperature and also conforms to Last Takes Precedence Protocol so 'on set' or 'desk control' can modify settings on the fixture. Silks can be daisy chained with 5 pin XLR connectors.

• Wireless DMX (rAd)

This mode allows the fixture to be controlled via wireless DMX with the Lumen Radio wireless module. When in wireless DMX mode, Silk can still be daisy chained to other fixtures not in wireless mode.

Note: The Lumen Radio chip offers over-the-air firmware upgrades, as well as a UF.L connector for external antenna. TiMo is fully compliant with the ETSI EN 300328 (v1.8.1) '2015' revision, as well as fully FCC certified with a modular approval to 300mW. The chip is fully compatible with all existing CRMX transmitters, as well as transmitters from Wireless Solution running in G2, G3, G4 or G4S 2.4GHz mode, enabling a single wireless component to maximize compatibility within fixtures.

• Silk is DMX master (Con)

In this mode, a Silk can control other Silk's on set with common base address. That way in a small wired set up, one with limited crew, the overall light level or CCT can be adjusted from one master unit.

NOTE: When the Silk is in wireless mode, also behaves as a wired master; other fixtures wired downstream will receive DMX. So a wireless Silk can act as a hub.

2.1 Standard DMX



2.2 Wireless DMX



2.3 Silk is DMX Master (Controlling)



CHOICE OF FOUR DIMMING CURVES

- Linear (Lin) In Linear mode an address of 127 = 50% Dim. Because single channel DMX is only 8 bit (0-255), the lower end of the Dim curve has the same increment as the higher end.
- Square law (Squ) A square law curve applies a multiple derived from the square root of the control level (with full output equal to 1.00) to increase voltage response at low control levels to compensate for the infrared loss in a tungsten fixture.
- Scurve Greater resolution at low end and high end, compressed in the middle
- **Tungsten (CCt)** Tungsten emulates the CCT shift seen as traditional tungsten fixtures are dimmed. Tungsten mode works at all colour temperatures and starts warming up when dimming below 50%. A "t" will appear on the LED display after the colour temperature as the CCT displayed will no longer be an accurate reflection of output.

NOTE: Some desks designed for LED fixtures have curves built in. It is important to ensure that your Silk fixture is in linear mode when imposing an additional curve from a desk to avoid compound and confusing output performance.

3.1 Linear



3.2 Square law



3.3 'S' curve



3.4 Tungsten



CHOICE OF TWO COLOR PROFILES

Standard has the CCT relate to a percentage on the DMX board in 1% steps, i.e. 100K

| 0 - 28% | = | 2800K |
|------------|---|-------|
| 32% | = | 3200K |
| 50% | = | 5000K |
| 65% - 100% | = | 6500K |

Linear mode has the CCT divided equally on channel 2 from

| 0 | = | 2800K |
|-----|---|-------|
| 100 | = | 6500K |

4.1 Standard







SELECT BOOST OR FLAT OUTPUT MODE

Flat mode ensures light output is constant at all colour temperatures. In this mode as you move towards 6500K, the output will stay the same. (in other modes it will increase).

5.1 Standard

Standard mode maximises output at the middle and cold end of the CCT range



5.2 Flat

Flat mode maintains level output at all color temperatures. This comprises output at the cold end of the spectrum.



SELECT INTERNAL/EXTERNAL ANTENNA

Sets the wireless antenna to internal or external optional antenna. The unit does not come supplied with the external antenna but does have a SMA connector to attach it to.

6.1 Internal



6.2 External



ABILITY TO UNLINK THE WIRELESS OR LEAVE LOCK LINKED

7.1 Wireless transmitter lock linked



7.2 Unlink wireless



RETURN TO DEFAULT SETTINGS

To return all settings to standard defaults – hold down the MODE SELECT button while switching the unit on. All defaults will be selected.

CHOICE OF TWO COLOR PROFILES

Standard In standard mode CCT is segmented to match percentage set on the DMX desk, thus 50% or 127 = 5000K, 32% = 3200K. This enables users with simple desks to have a clear idea of what CCT to expect from the luminaire.

Linear In Linear mode an address of 127 = 4645K. Because single channel DMX is only 8 bit (0-255), the lower end of the Dim curve has the same increment as the higher end.

1

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|---|-------------------|-----------------|
| 0 | 0 | 2800 | 2800 |
| 1 | 0 | 2800 | 2800 |
| 2 | 0 | 2800 | 2800 |
| 3 | 1 | 2800 | 2800 |
| 4 | 1 | 2800 | 2800 |
| 5 | 2 | 2800 | 2815 |
| 6 | 2 | 2800 | 2830 |
| 7 | 2 | 2800 | 2845 |
| 8 | 3 | 2800 | 2860 |
| 9 | 3 | 2800 | 2875 |
| 10 | 4 | 2800 | 2890 |
| 11 | 4 | 2800 | 2905 |
| 12 | 4 | 2800 | 2920 |
| 13 | 5 | 2800 | 2935 |
| 14 | 5 | 2800 | 2950 |
| 15 | 6 | 2800 | 2965 |
| 16 | 6 | 2800 | 2980 |

DMX MAPPING

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 17 | 6 | 2800 | 2995 |
| 18 | 7 | 2800 | 3010 |
| 19 | 7 | 2800 | 3025 |
| 20 | 8 | 2800 | 3040 |
| 21 | 8 | 2800 | 3055 |
| 22 | 8 | 2800 | 3070 |
| 23 | 9 | 2800 | 3085 |
| 24 | 9 | 2800 | 3100 |
| 25 | 10 | 2800 | 3115 |
| 26 | 10 | 2800 | 3130 |
| 27 | 10 | 2800 | 3145 |
| 28 | 11 | 2800 | 3160 |
| 29 | 11 | 2800 | 3175 |
| 30 | 12 | 2800 | 3190 |
| 31 | 12 | 2800 | 3205 |
| 32 | 12 | 2800 | 3220 |
| 33 | 13 | 2800 | 3235 |

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 34 | 13 | 2800 | 3250 |
| 35 | 14 | 2800 | 3265 |
| 36 | 14 | 2800 | 3280 |
| 37 | 14 | 2800 | 3295 |
| 38 | 15 | 2800 | 3310 |
| 39 | 15 | 2800 | 3325 |
| 40 | 16 | 2800 | 3340 |
| 41 | 16 | 2800 | 3355 |
| 42 | 16 | 2800 | 3370 |
| 43 | 17 | 2800 | 3385 |
| 44 | 17 | 2800 | 3400 |
| 45 | 18 | 2800 | 3415 |
| 46 | 18 | 2800 | 3430 |
| 47 | 18 | 2800 | 3445 |
| 48 | 19 | 2800 | 3460 |
| 49 | 19 | 2800 | 3475 |
| 50 | 20 | 2800 | 3490 |

DMX MAPPING

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 51 | 20 | 2800 | 3505 |
| 52 | 20 | 2800 | 3520 |
| 53 | 21 | 2800 | 3535 |
| 54 | 21 | 2800 | 3550 |
| 55 | 21 | 2800 | 3565 |
| 56 | 22 | 2800 | 3580 |
| 57 | 22 | 2800 | 3595 |
| 58 | 23 | 2800 | 3610 |
| 59 | 23 | 2800 | 3625 |
| 60 | 24 | 2800 | 3640 |
| 61 | 24 | 2800 | 3655 |
| 62 | 24 | 2800 | 3670 |
| 63 | 25 | 2800 | 3685 |
| 64 | 25 | 2800 | 3700 |
| 65 | 26 | 2800 | 3715 |
| 66 | 26 | 2800 | 3730 |
| 67 | 27 | 2800 | 3745 |

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 68 | 27 | 2800 | 3760 |
| 69 | 27 | 2800 | 3775 |
| 70 | 28 | 2800 | 3790 |
| 71 | 28 | 2800 | 3805 |
| 72 | 28 | 2850 | 3820 |
| 73 | 29 | 2900 | 3835 |
| 74 | 29 | 2950 | 3850 |
| 75 | 30 | 2950 | 3865 |
| 76 | 30 | 3000 | 3880 |
| 77 | 30 | 3050 | 3895 |
| 78 | 31 | 3100 | 3910 |
| 79 | 31 | 3100 | 3925 |
| 80 | 32 | 3150 | 3940 |
| 81 | 32 | 3200 | 3955 |
| 82 | 33 | 3250 | 3970 |
| 83 | 34 | 3300 | 3985 |
| 84 | 33 | 3300 | 4000 |

DMX MAPPING

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 85 | 34 | 3350 | 4015 |
| 86 | 34 | 3400 | 4030 |
| 87 | 34 | 3450 | 4045 |
| 88 | 35 | 3500 | 4060 |
| 89 | 35 | 3500 | 4075 |
| 90 | 35 | 3550 | 4090 |
| 91 | 36 | 3600 | 4105 |
| 92 | 37 | 3650 | 4120 |
| 93 | 37 | 3650 | 4135 |
| 94 | 37 | 3700 | 4150 |
| 95 | 38 | 3750 | 4165 |
| 96 | 38 | 3800 | 4180 |
| 97 | 38 | 3850 | 4195 |
| 98 | 39 | 3850 | 4210 |
| 99 | 39 | 3900 | 4225 |
| 100 | 40 | 3950 | 4240 |
| 101 | 40 | 4000 | 4255 |

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 102 | 40 | 4000 | 4270 |
| 103 | 41 | 4050 | 4285 |
| 104 | 41 | 4100 | 4300 |
| 105 | 42 | 4150 | 4315 |
| 106 | 42 | 4200 | 4330 |
| 107 | 42 | 4200 | 4345 |
| 108 | 43 | 4250 | 4360 |
| 109 | 43 | 4300 | 4375 |
| 110 | 44 | 4350 | 4390 |
| 111 | 44 | 4400 | 4405 |
| 112 | 44 | 4400 | 4420 |
| 113 | 45 | 4450 | 4435 |
| 114 | 45 | 4500 | 4450 |
| 115 | 46 | 4550 | 4465 |
| 116 | 46 | 4550 | 4480 |
| 117 | 46 | 4600 | 4495 |
| 118 | 47 | 4650 | 4510 |

DMX MAPPING

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 119 | 48 | 4700 | 4525 |
| 120 | 48 | 4750 | 4540 |
| 121 | 48 | 4750 | 4555 |
| 122 | 49 | 4800 | 4570 |
| 123 | 49 | 4850 | 4585 |
| 124 | 49 | 4900 | 4600 |
| 125 | 50 | 4950 | 4615 |
| 126 | 50 | 4950 | 4630 |
| 127 | 50 | 5000 | 4645 |
| 128 | 51 | 5050 | 4660 |
| 129 | 51 | 5100 | 4675 |
| 130 | 52 | 5100 | 4690 |
| 131 | 52 | 5150 | 4705 |
| 132 | 53 | 5200 | 4720 |
| 133 | 53 | 5250 | 4735 |
| 134 | 53 | 5300 | 4750 |
| 135 | 54 | 5300 | 4765 |

DMX MAPPING DI

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 136 | 54 | 5350 | 4780 |
| 137 | 55 | 5400 | 4795 |
| 138 | 55 | 5450 | 4810 |
| 139 | 55 | 5500 | 4825 |
| 140 | 56 | 5500 | 4840 |
| 141 | 56 | 5550 | 4855 |
| 142 | 57 | 5600 | 4870 |
| 143 | 57 | 5650 | 4885 |
| 144 | 57 | 5650 | 4900 |
| 145 | 58 | 5700 | 4915 |
| 146 | 58 | 5750 | 4930 |
| 147 | 59 | 5800 | 4945 |
| 148 | 59 | 5850 | 4960 |
| 149 | 59 | 5850 | 4975 |
| 150 | 60 | 5900 | 4990 |
| 151 | 60 | 5950 | 5005 |
| 152 | 61 | 6000 | 5020 |

DMX MAPPING

| DMX | % Color Standard | | Color Linear |
|-----|---------------------|------|-----------------|
| 153 | 61 | 6000 | 5035 |
| 154 | 61 | 6050 | 5050 |
| 155 | 62 | 6100 | 5065 |
| 156 | 62 | 6150 | 5080 |
| 157 | 63 | 6200 | 5095 |
| 158 | 63 | 6200 | 5110 |
| 159 | 63 | 6250 | 5125 |
| 160 | 64 | 6300 | 5140 |
| 161 | 64 | 6350 | 5155 |
| 162 | 65 | 6400 | 5170 |
| 163 | 65 | 6400 | 5185 |
| 164 | 65 | 6450 | 5200 |
| 165 | 66 | 6500 | 5215 |
| 166 | 66 | 6500 | 5230 |
| 167 | 67 | 6500 | 5245 |
| 168 | 67 | 6500 | 5260 |
| 169 | 67 | 6500 | 5275 |

DMX MAPPING DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|------------|-------------------|-----------------|
| 170 | 68 | 6500 | 5290 |
| 171 | 68 | 6500 | 5305 |
| 172 | 69 | 6500 | 5320 |
| 173 | 69 | 6500 | 5335 |
| 174 | 69 | 6500 | 5350 |
| 175 | 70 | 6500 | 5365 |
| 176 | 70 | 6500 | 5380 |
| 177 | 77 71 6500 | | 5395 |
| 178 | 71 | 6500 | 5410 |
| 179 | 71 | 6500 | 5425 |
| 180 | 72 | 6500 | 5440 |
| 181 | 72 | 6500 | 5455 |
| 182 | 73 | 6500 | 5470 |
| 183 | 73 | 6500 | 5485 |
| 184 | 73 | 6500 | 5500 |
| 185 | 74 | 6500 | 5515 |
| 186 | 74 | 6500 | 5530 |

DMX MAPPING

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 187 | 75 | 6500 | 5545 |
| 188 | 75 | 6500 | 5560 |
| 189 | 75 | 6500 | 5575 |
| 190 | 76 | 6500 | 5590 |
| 191 | 76 | 6500 | 5605 |
| 192 | 77 | 6500 | 5620 |
| 193 | 77 | 6500 | 5635 |
| 194 | 77 | 6500 | 5650 |
| 195 | 78 | 6500 | 5665 |
| 196 | 78 | 6500 | 5680 |
| 197 | 78 | 6500 | 5695 |
| 198 | 79 | 6500 | 5710 |
| 199 | 79 | 6500 | 5725 |
| 200 | 80 | 6500 | 5740 |
| 201 | 80 | 6500 | 5755 |
| 202 | 81 | 6500 | 5770 |
| 203 | 81 | 6500 | 5785 |

DISPLAY

| DMX | % | Color Standard | Color Linear |
|-----|----|-------------------|-----------------|
| 204 | 81 | 6500 | 5800 |
| 205 | 82 | 6500 | 5815 |
| 206 | 82 | 6500 | 5830 |
| 207 | 83 | 6500 | 5845 |
| 208 | 83 | 6500 | 5860 |
| 209 | 83 | 6500 | 5875 |
| 210 | 84 | 6500 | 5890 |
| 211 | 84 | 6500 | 5905 |
| 212 | 85 | 6500 | 5920 |
| 213 | 85 | 6500 5935 | |
| 214 | 85 | 6500 | 5950 |
| 215 | 85 | 6500 | 5965 |
| 216 | 86 | 6500 | 5980 |
| 217 | 87 | 6500 | 5995 |
| 218 | 87 | 6500 | 6010 |
| 219 | 87 | 6500 | 6025 |
| 220 | 88 | 6500 | 6040 |

DMX MAPPING

| DMX | % | Color | Color |
|-----|----|----------|--------|
| | | Standard | Linear |
| 221 | 88 | 6500 | 6055 |
| 222 | 89 | 6500 | 6070 |
| 223 | 89 | 6500 | 6085 |
| 224 | 89 | 6500 | 6100 |
| 225 | 90 | 6500 | 6115 |
| 226 | 90 | 6500 | 6130 |
| 227 | 91 | 6500 | 6145 |
| 228 | 91 | 6500 | 6160 |
| 229 | 91 | 6500 | 6175 |
| 230 | 92 | 6500 | 6190 |
| 231 | 92 | 6500 | 6205 |
| 232 | 92 | 6500 | 6220 |
| 233 | 93 | 6500 | 6235 |
| 234 | 93 | 6500 | 6250 |
| 235 | 94 | 6500 | 6265 |
| 236 | 94 | 6500 | 6280 |
| 237 | 95 | 6500 | 6295 |

| DMX | % | Color Standard | Color Linear | |
|-----|-----|-------------------|-----------------|--|
| 238 | 95 | 6500 | 6310 | |
| 239 | 95 | 6500 | 6325 | |
| 240 | 96 | 6500 | 6340 | |
| 241 | 96 | 6500 | 6355 | |
| 242 | 97 | 6500 | 6370 | |
| 243 | 97 | 6500 | 6385 | |
| 244 | 97 | 6500 | 6400 | |
| 245 | 98 | 6500 | 6415 | |
| 246 | 98 | 6500 | 6430 | |
| 247 | 99 | 6500 | 6445 | |
| 248 | 99 | 6500 | 6460 | |
| 249 | 99 | 6500 | 6475 | |
| 250 | 100 | 6500 | 6490 | |
| 251 | 100 | 6500 | 6500 | |
| 252 | 100 | 6500 | 6500 | |
| 253 | 100 | 6500 | 6500 | |
| 254 | 100 | 6500 | 6500 | |

DMX OPERATION

Silk LED fixtures can be operated via DMX512 protocol using the standard 5-pin DMX In and DMX Out connectors on the Rear Control Panel or by wireless using a Lumen Radio wireless transmitter. Once DMX is connected to the Silk fixture via the 'DMX In' port, it can be controlled by a DMX console. When a valid DMX signal is detected, the Blue Indicator LED will illuminate. The 'DMX Out' connector allows other DMX enabled fixtures to be daisy-chained together.

When Silk is in Master mode, the Blue Indicator will flash and a "c" for control will be displayed on the display.

When Silk is in wireless DMX mode, it will feed DMX on the OUT connector but cannot have a wired input. Silk can therefore be used as a wireless hub, distributing DMX to wired fixtures that do not have wireless capability.

NOTE: Silk LED fixtures are self-terminating and do not require external DMX termination.

DMX Control uses two channels in 8 bit dimming mode and 3 channels in 16 bit mode:

- DMX Channel 1 = Output (Dimming) Intensity (DMX value 0 - 255 = level 0 - 100%)
- DMX Channel 2 = CCT Color Temperature (DMX value 0 = 2800K, 255 = 6500K)

NOTE: Silk uses LTP (Last Takes Precedence) protocol. LTP is a handy way of controlling intelligent lighting parameters that relate to intensity or color mixing. It you need a color wheel to change from tungsten to daylight, or dimmer position change, you want it to happen as you expect. This allows manual override 'on set' even if the fixture is being run back to the board on set or in the gallery. LTP control channels send the latest instruction to an intelligent fixture parameter and nothing changes until it sends another one on that channel. Silk LED fixtures use industry standard 5-Pin XLR male and female connectors to receive DMX signals and output DMX signals.

The DMX Pin wiring is as follows:

- Pin 1: Ground
- Pin 2: Data -
- Pin 3: Data +
- Pin 4: Spare
- Pin 5: Spare

RUNNING MULITPLE WIRELESS UNITS

In a controlled radio environment, running 8-10 universes in parallel should not be a problem. If you have many other systems running the limit might be a bit lower, but 4-6 universes should always work.

When running multiple universes, it is recommended to use Lumen Radio TX2 units instead of doubling up on single universe TX units. The two radio modules inside the TX2 are synchronized so that they consume less frequency space than two single universe TX units.

Should single TX units be used, keep them physically separated by at least 6" (15 cm) so as to avoid crosstalk.

For further details on wireless transmitters go to: https://www.lumenradio.com/

SETTING THE DMX ADDRESS

Push the MODE/SELECT Button and the DMX base address in the upper right corner of the display will flash. Rotate the right-hand knob to the desired DMX base address (001 to 511). Once the desired address has been selected, push the DMX set button and the display will move onto the next menu option. The display will time out after a few seconds and revert to home screen. Alternately six pushes on the mode button will scroll through other options and return to the home screen. Silk LED fixtures utilize 2 channels per fixture in 8 bit dimming and 3 channels in 16 bit dimming. Other, subsequent DMX addresses should be offset by 2 or 3.

Silk DMX color mapping in standard/default mode has been designed to enable easy access of color temperatures from simple or older DMX control boards. The color temperature relates directly to the percentage on the desk, such that if Channel 2, (base channel + 1), on the desk is at 30%, the color temperature will be at 3000K. In the optional linear color profille, 0% = 2800K and 100% = 6500K interim equal steps are 15K.

| KELVIN/CCT | DEC | % | DEC | % | Color Linear |
|------------|-----|----|-----|----|--------------|
| 2800 | 72 | 28 | 0 | 0 | 2800 |
| 2900 | 74 | 29 | 11 | 4 | 2905 |
| 3200 | 82 | 32 | 31 | 12 | 3205 |
| 3600 | 92 | 36 | 58 | 23 | 3610 |
| 4300 | 110 | 43 | 104 | 41 | 4300 |
| 5000 | 127 | 50 | 151 | 59 | 5005 |
| 5600 | 142 | 56 | 191 | 75 | 5605 |
| 6500 | 165 | 65 | 251 | 98 | 6500 |

NOTE: Silk LED fixtures will maintain their current Color Temperature and Output/Dimming settings in the event of an interruption to the DMX signal.

Full DMX mapping tables are available on the Rosco website at: www.rosco.com/silk

SILK® 210 RUNNING ON DC SOURCES

Silk 210 is designed to run on any voltage between 13V - 36VDC.

For optimal performance run Silk 210 on an AC transformer.

A second option is to run it on 24 V DC source, either with a block battery or with the Silk Double V–lock adaptor (BB-VLO-2X) or Double AB adaptor (BB-AB-2X).

The third option is to run on one 12V battery using the V-lock or Anton/Bauer adaptor plate (BB-SIL-VLOCP or BB-SIL-ABCP). In this situation, it is advised to use the highest capacity battery available. High capacity and heavy duty V-locks and Anton/Bauer batteries are available and High Draw versions are available from some manufacturers such as Hawk-Woods.

At full output, Silk 210 can pull up to 9A as the battery voltage reduces, therefore it is advised to select a battery that is suitably rated.

Hawk-Woods and other manufacturers now offer a range of batteries that are designed for high current draw, up to 15A, ideal for use with Silk fixtures. A battery used on Silk 210 must have a current rating of >9A to cope with current draw at lower voltages to ensure it doesn't cut out early and reduce running time.

There are a range of variables that effect battery life such as: capacity, age, number of duty cycles, quality, and ambient temperature.

Silk firmware has been designed to maintain light output and protect the driver electronics as supply voltage drops.

At 13.5V input the entire display will flash to warn the user that there is limited remaining capacity. Between 13V and 12.5V the lamp will switch off and display "Lo OFF". Please switch off the unit and change the battery or switch to an alternative power source. The time between the warning display and cut out will vary but a typical duration would be 5 – 15 minutes, but typical duration on a 100W battery would be 10 minutes.

Additionally there are other steps you can take to prolong battery life on Silk 210 **if** running time is the priority. Roll off the output to < 90% and walk the lamp in slightly closer to the subject if possible. This can increase the running time by up to 75%. Adjusting color temperature below 5300K, if possible, will also increase running time. (For instance, setting the fixture to 4300K, if appropriate to your situation, will increase running time by as much as 25%.)

Rosco has tested many Lithium Ion batteries currently available and a list of test results and expected run times are shown on the next page.

Many other batteries offered from a range of manufacturers may work but their performance and reliability cannot be confirmed by Rosco.

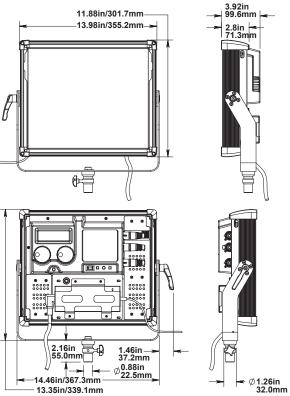
Use only Lithium Ion batteries >=100W with this Silk fixture.

IMPORTANT NOTE: When changing batteries on the unit, first switch off with the power switch, change the battery and then switch back on. Permanent damage to the driver board is possible when swapping batteries with the unit switched on.

BATTERY RUN TIMES - SILK® 210 IN STANDARD OUTPUT

| Bat 1 | Bat 2 | Manufacturer | ССТ | running time | Bat 1 | Bat 2 | Manufacturer | ССТ | running time |
|-------|-------|--------------|------|--------------|-------|-------|--------------|------|--------------|
| 91 | | IDX | 2800 | 0:36:00 | 150 | | AB HC Dionic | 5600 | 0:27:00 |
| 91 | | IDX | 4700 | 0:37:00 | 150 | | AB HC Dionic | 6500 | 0:37:00 |
| 91 | | IDX | 5600 | 0:24:00 | 190 | | Hawk-Woods | 2800 | 1:16:00 |
| 94 | | AB PAGlink | 2800 | 0:38:00 | 190 | | Hawk-Woods | 3200 | 0:48:00 |
| 94 | | AB PAGLink | 4700 | 0:40:00 | 190 | | Hawk-Woods | 4300 | 1:40:00 |
| 94 | | AB PAGLink | 5600 | 0:26:00 | 190 | | Hawk-Woods | 4700 | 1:23:00 |
| 98 | | BCB | 2800 | 0:47:00 | 190 | | Hawk-Woods | 5600 | 1:30:00 |
| 98 | | BCB | 4700 | 0:47:00 | 90H | | Hawk-Woods | 4300 | 0:45:00 |
| 98 | | BCB | 5600 | 0:36:00 | 90H | | Hawk-Woods | 5600 | 0:26:00 |
| 98 | | BCB | 6500 | 0:46:00 | 150 | | Lanparte | 4300 | 1:10:00 |
| 130 | | Dynacore | 4300 | 0:58:00 | 146 | | IDX | 4300 | 1:21:00 |
| 130 | | Dynacore | 5600 | 0:23:00 | 87 | | IDX | 5600 | 0:29:00 |
| 90H | | Hawk-Woods | 4300 | 0:50:36 | 150 | | Lanparte | 5600 | 0:44:00 |
| 90H | | Hawk-Woods | 5000 | 0:36:00 | 146 | | IDX | 5600 | 1:00:00 |
| 90H | | Hawk-Woods | 5600 | 0:50:00 | 130 | | DYNACORE | 5600 | 0:42:00 |
| 140 | | Hawk-Woods | 3200 | 0:24:00 | | | | | |
| 140 | | Hawk-Woods | 4300 | 1:12:00 | 140 | 140 | Hawk-Woods | 3200 | 2:29:00 |
| 140 | | Hawk-Woods | 4700 | 1:01:00 | 140 | 140 | Hawk-Woods | 4300 | 2:48:00 |
| 140 | | Hawk-Woods | 5000 | 0:26:00 | 140 | 140 | Hawk-Woods | 5600 | 2:15:00 |
| 140 | | Hawk-Woods | 5600 | 0:25:00 | 190 | 190 | Hawk-Woods | 3200 | 3:21:00 |
| 140 | | Hawk-Woods | 6500 | 0:53:00 | 190 | 190 | Hawk-Woods | 4300 | 3:50:00 |
| 150 | | AB HC Dionic | 2800 | 0:31:00 | 190 | 190 | Hawk-Woods | 5600 | 2:10:00 |
| 150 | | AB HC Dionic | 4700 | 0:30:00 | L | | 1 | | |

SILK® 110 DIMENSIONS



SILK® 110 SPECIFICATIONS

Power: Input Voltage 13-36 VDC

- AC Power Transformer
- Power Supply Universal 100-240VAC input/24VDC output
- Power Consumption 100W Max (DC)

DC Operation via standard Anton/Bauer, V-Mount or 4-Pin batteries (owner supplied)

Physical Characteristics:

| Dimensions (excluding Yoke) | 13.9" × 11.9" × 3.9" (355.2 mm × 302 mm × 100 mm) |
|--------------------------------------------------|---------------------------------------------------|
| Dimensions (including Yoke & Receiver) | 15.9" × 13.3" × 3.9" (405 mm × 394 mm × 100 mm) |
| Weight (including Power Supply, Yoke & Receiver) | 9.25 lbs. (4.2 kg) |

Optical Characteristics:

The Silk LED Fixture is a broad spectrum, diffuse, white light source. Like all discontinuous spectrum lamps, this source can only emulate a black body radiator or daylight source. However Silk LED fixtures have been developed to mix well with traditional sources, such as Tungsten Halogen, MSR and HMI fixtures, as they work within the color gamut of current broadcast and motion picture cameras and film stock.

Measuring Correlated Color Temperature (CCT)

Silk fixtures utilize an LED source that is optimized for the film, TV and image capture industries. Many existing color meters cannot be used to accurately read the correlated color temperature (CCT) of Silk and other discontinuous spectrum light sources.

Old style color meters in use today were designed for a full spectrum source such as incandescent lights. These meters possess only 3 sensors to measure the light output: red, green, and blue. As such, a narrow band light source, such as Silk may not read correctly.

A few color meters now on the market will provide a more accurate CCT reading and these include: Asense Lighting Passport, Sekonic C700 and UPRTECH MK350N and MF250N.

SILK[®] 110 ACCESSORIES

Mounting

| BA-SIL-110-SY | Silk 110 Yoke |
|-----------------|-----------------------------------------------------------------|
| BA-SIL-110-POY | Silk 110 PoleOp Yoke |
| Battery Holders | |
| BB-SIL-AB-CP | Silk Anton/Bauer battery plate |
| BB-SIL-VLO-CP | Silk V-Lock battery plate Silk Double V-Lock battery adaptor |
| BD-SIL-110 | Silk 110 Barn Doors (set) |
| CAS-SIL-110S | Silk 110 Soft Carrying Case |
| | Silk 110 Hard Case |
| CAS-SIL-110RC | Silk 110 Rain Cover |
| | |

Diffusion and Light Modifiers

- DM-SIL-110LV45 Silk 110 Egg Crate Louver 45 degrees
- DM-SIL-110LV60 Silk 110 Egg Crate Louver 60 degrees
- DM-SIL-110SB Silk 110 DOPChoice SoftBox, inc 1/4 grid cloth DM-SIL-110SG Silk 110 DOPChoice SnapGrid. fabric
- DM-SIL-110SG Silk 110 DOPChoice SnapGrid, fabric louver

Transformers (AC Mains PSU)

| TR-COM-120WOC | AC PSU to XLR4 24V, no power cord |
|---------------|-----------------------------------|
| TR-SIL-120WC | Silk AC 120W PSU with cradle |

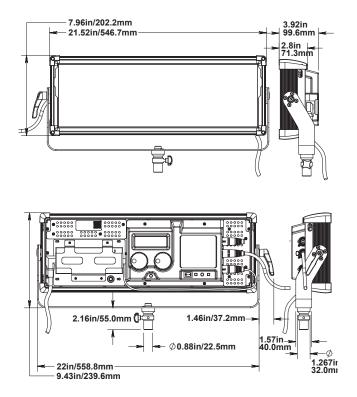
Mains Power Cables

| SCHI-C13-EU | EU IEC AC supply cable, 3 pin, 3m |
|-------------|-----------------------------------|
| SCHI-C13-UK | UK IEC AC supply cable, 3 pin, 3m |
| SCHI-C13-US | US IEC AC supply cable, 3 pin, 3m |

Replacement Parts

| XS-SIL-110DIF | Silk Diffusion Panel – Silk 110 |
|---------------|---------------------------------|
| XS-SIL-CC | Silk corner piece module with |
| | accessory retention mechanism |

SILK[®] 205 DIMENSIONS



SILK[®] 205 SPECIFICATIONS

Power: Input Voltage 13-36 VDC

AC Power Transformer

• Power Supply Universal 100-240VAC input/24VDC output

• Power Consumption 100W Max (DC)

DC Operation via standard Anton/Bauer, V-Mount or 4-Pin batteries (owner supplied)

Physical Characteristics:

| Dimensions (excluding Yoke) | 21.5" × 7.9" × 3.9" (546 mm × 302 mm × 100 mm) |
|--------------------------------------------------|------------------------------------------------|
| Dimensions (including Yoke & Receiver) | 22" × 9.43" × 3.9" (559 mm × 239 mm × 100 mm) |
| Weight (including Power Supply, Yoke & Receiver) | 9.92 lbs. (4.5 kg) |

Optical Characteristics:

The Silk LED Fixture is a broad spectrum, diffuse, white light source. Like all discontinuous spectrum lamps, this source can only emulate a black body radiator or daylight source. However Silk LED fixtures have been designed to mix well with traditional sources, such as Tungsten Halogen, MSR and HMI fixtures, as they work within the color gamut of current broadcast and motion picture cameras and film stock.

Measuring Correlated Color Temperature (CCT)

Silk fixtures utilize an LED source that is optimized for the film, TV and image capture industries. Many existing color meters cannot be used to accurately read the correlated color temperature (CCT) of Silk and other discontinuous - spectrum light sources.

Old style color meters in use today were designed for a full spectrum source such as incandescent lights. These meters possess only 3 sensors to measure the light output: red, green, and blue. As such, a narrow band light source, such as Silk may not read correctly.

A few color meters now on the market will provide a more accurate CCT reading and these include: Asense Lighting Passport, Sekonic C700 and UPRTECH MK350N and MF250N.

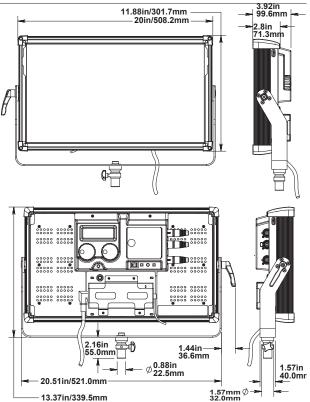
SILK[®] 205 ACCESSORIES

louver

Mounting

| BA-SIL-205-SY | Silk 205 Yoke | Mains Power Cabl | es | |
|---------------------|---------------------------------------------------|-------------------|----------------------------------------------------------------|--|
| BA-SIL-205-POY | Silk 205 PoleOp Yoke | SCHI-C13-EU | EU IEC AC supply cable, 3 pin, 3m | |
| Battery Holders | | SCHI-C13-UK | UK IEC AC supply cable, 3 pin, 3m | |
| BB-SIL-AB-CP | Silk Anton/Bauer battery plate | SCHI-C13-US | US IEC AC supply cable, 3 pin, 3m | |
| BB-SIL-VLO-CP | Silk V-Lock battery plate | Replacement Parts | | |
| | Silk Double V-Lock battery adaptor | XS-SIL-205DIF | Silk Diffusion Panel – Silk 205 | |
| BD-SIL-205 | Silk 205 Barn Doors (set) | XS-SIL-CC | Silk corner piece module with accessory retention mechanism | |
| CAS-SIL-205S | Silk 205 Soft Carrying Case | | | |
| | Silk 205 Hard Case | | | |
| CAS-SIL-205RC | Silk 205 Rain Cover | | | |
| Diffusion and Light | t Modifiers | | | |
| DM-SIL-205LV45 | Silk 205 Egg Crate Louver 45 degrees | | | |
| DM-SIL-205LV60 | Silk 205 Egg Crate Louver 60 degrees | | | |
| | | | | |
| DM-SIL-205SB | Silk 205 DOPChoice SoftBox, inc 1/4 grid cloth | | | |
| DM-SIL-205SG | Silk 205 DOPChoice SnapGrid, fabric | | | |

SILK[®] 210 DIMENSIONS



SILK[®] 210 SPECIFICATIONS

Power Input Voltage

13-36 VDC

AC Power Transformer

• Power Supply Universal 100-240VAC input/24VDC output

Power Consumption 110W Max (DC)

DC Operation via standard Anton/Bauer, V-Mount or 4-Pin batteries (owner supplied)

Physical Characteristics

Dimensions (excluding Yoke) Dimensions (including Yoke & Receiver) Weight (including Power Supply, Yoke & Receiver) $20"\times 11.9"\times 3.92"$ (508 mm \times 302 mm \times 100 mm) 20.5" \times 13.4" \times 3.92" (521 mm \times 339 mm \times 100 mm) 13 lbs. (5.9 kg)

Optical Characteristics

The Silk LED Fixture is a broad spectrum, diffuse, white light source. Like all discontinuous spectrum lamps, this source can only emulate a black body radiator or daylight source. However Silk LED fixtures have been designed to mix well with traditional sources, such as Tungsten Halogen, MSR and HMI fixtures, as they work within the color gamut of current broadcast and motion picture cameras and film stock.

Measuring Correlated Color Temperature (CCT)

Silk fixtures utilize an LED source that is optimized for the film, TV and image capture industries. Many existing color meters cannot be used to accurately read the correlated color temperature (CCT) of Silk and other discontinuous spectrum light sources.

Old style color meters in use today were designed for a full spectrum source such as incandescent lights. These meters possess only 3 sensors to measure the light output: red, green, and blue. As such, a narrow band light source, such as Silk may not read correctly.

A few color meters now on the market will provide a more accurate CCT reading and these include: Asense Lighting Passport, Sekonic C700 and UPRTECH MK350N and MF250N.

SILK[®] 210 ACCESSORIES

Mounting

BA-SIL-210-SYSilk 210 YokeBA-SIL-210-POYSilk 210 PoleOp Yoke

Battery Holders

- BB-SIL-AB-CP
 Silk Anton/Bauer battery plate

 BB-SIL-VLO-CP
 Silk V-Lock battery plate

 Silk Double V-Lock battery adaptor
- BD-SIL-210 Silk 210 Barn Doors (set)
- CAS-SIL-210S Silk 210 Soft Carrying Case Silk 210 Hard Case
- CAS-SIL-210RC Silk 210 Rain Cover

Diffusion and Light Modifiers

- DM-SIL-210LV45 Silk 210 Egg Crate Louver 45 degrees
- DM-SIL-210LV60 Silk 210 Egg Crate Louver 60 degrees
- DM-SIL-210SB Silk 210 DOPChoice SoftBox, inc 1/4 grid cloth
- DM-SIL-210SG Silk 210 DOPChoice SnapGrid, fabric louver

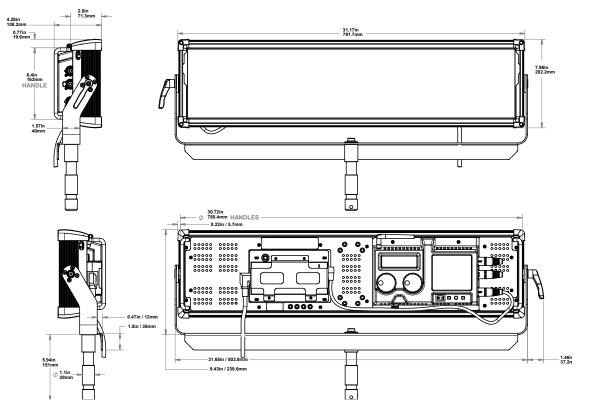
Mains Power Cables

| SCHI-C13-EU | EU IEC AC supply cable, 3 pin, 3m |
|-------------|-----------------------------------|
| SCHI-C13-UK | UK IEC AC supply cable, 3 pin, 3m |
| SCHI-C13-US | US IEC AC supply cable, 3 pin, 3m |

Replacement Parts

| XS-SIL-210DIF | Silk Diffusion Panel – Silk 210 |
|---------------|---------------------------------|
| XS-SIL-CC | Silk corner piece module with |
| | accessory retention mechanism |

SILK[®] 305 DIMENSIONS



SILK® 305 SPECIFICATIONS

Power: Input Voltage 23-36 VDC

AC Power Transformer

• Power Supply Universal 100-240VAC input/24VDC output

• Power Consumption 140W Max

DC Operation via double Anton/Bauer, double V-Mount or 4-Pin batteries (owner supplied)

Physical Characteristics:

| Dimensions (excluding Yoke) | 31.2" × 7.96" × 4.26" (792 mm × 202 mm × 108.2 mm) |
|--------------------------------------------------|-------------------------------------------------------|
| Dimensions (including Yoke & Receiver) | 31.65" × 9.43" × 4.26" (804 mm × 239.6 mm × 108.2 mm) |
| Weight (including Power Supply, Yoke & Receiver) | 16.5 lbs. (7.5 kg) |

Optical Characteristics:

The Silk LED Fixture is a broad spectrum, diffuse, white light source. Like all discontinuous spectrum lamps, this source can only emulate a black body radiator or daylight source. However Silk LED fixtures have been designed to mix well with traditional sources, such as Tungsten Halogen, MSR and HMI fixtures, as they work within the color gamut of current broadcast and motion picture cameras and film stock.

Measuring Correlated Color Temperature (CCT)

Silk fixtures utilize an LED source that is optimized for the film, TV and image capture industries. Many existing color meters cannot be used to accurately read the correlated color temperature (CCT) of Silk and other discontinuous spectrum light sources.

Old style color meters in use today were designed for a full spectrum source such as incandescent lights. These meters possess only 3 sensors to measure the light output: red, green, and blue. As such, a narrow band light source, such as Silk may not read correctly.

A few color meters now on the market will provide a more accurate CCT reading and these include: Asense Lighting Passport, Sekonic C700 and UPRTECH MK350N and MF250N.

SILK[®] 305 ACCESSORIES

Mounting

BA-SIL-305-SYSilk 305 YokeBA-SIL-305-POYSilk 305 PoleOp Yoke

Battery Holders

- BB-SIL-AB-CP
 Silk Anton/Bauer battery plate

 BB-SIL-VLO-CP
 Silk V-Lock battery plate

 Silk Double V-Lock battery adaptor
- BD-SIL-305 Silk 305 Barn Doors (set)
- CAS-SIL-305S Silk 305 Soft Carrying Case Silk 305 Hard Case
- CAS-SIL-305RC Silk 305 Rain Cover

Diffusion and Light Modifiers

- DM-SIL-305LV45 Silk 305 Egg Crate Louver 45 degrees
- DM-SIL-305LV60 Silk 305 Egg Crate Louver 60 degrees
- DM-SIL-305SB Silk 305 DOPChoice SoftBox, inc 1/4 grid cloth
- DM-SIL-305SG Silk 305 DOPChoice SnapGrid, fabric louver

Mains Power Cables

| SCHI-C13-EU | EU IEC AC supply cable, 3 pin, 3m |
|-------------|-----------------------------------|
| SCHI-C13-UK | UK IEC AC supply cable, 3 pin, 3m |
| SCHI-C13-US | US IEC AC supply cable, 3 pin, 3m |

Replacement Parts

| XS-SIL-305DIF | Silk Diffusion Panel – Silk 305 |
|---------------|---------------------------------|
| XS-SIL-CC | Silk corner piece module with |
| | accessory retention mechanism |



CENTER MOUNT OPTIONS

Silk 220 and 305 are provided with eight mounting holes to support either a Kino Flo center mount assembly or Avenger Baby Plate with 5/8" swivel spigot.

220 and 305 are shipped with four spare mounting screws should the ones shipping with the accessories get lost.

WARNING - The threads are not to be used for mounting accessories or hanging the fixture.



UPDATING FIRMWARE

ONLY APPLICABLE TO V2.0 AND ABOVE

From time to time we may upgrade the firmware on Silk LED to optimise its performance or introduce new features.

No special programming hardware is required for this upgrade and the latest firmware will be available as a download from the Rosco website at www.rosco.com/silk/firmware

1) Plug a USB lead into the driver board and the PC with the Silk powered off. The USB port can be found on the underside of the electronics pod centred below the two control knobs.

2) Hold the encoder button down and still holding the button down switch on the power.

3) Release the encoder button after a few seconds and wait until Windows[™] detects the SILK as a drive, this can take a few seconds.

4) Open the drive.

5) Delete the current firmware.bin file.

6) Copy the new file to the now empty drive.

7) Wait a couple of seconds for the device to be programmed.

8) Safely remove the device from Windows™/eject like you do with a USB stick.

9) Cycle the power on the SILK unit and it will now boot the new code.

TROUBLESHOOTING

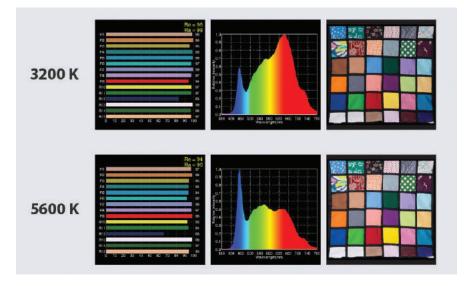
| SYMPTOM | POSSIBLE CAUSE | SOLUTION |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Unit does not respond to DMX control, but DMX indicator LED 'lit' | Unit set to incorrect DMX address | Check DMX address |
| Unit does not respond to DMX, but DMX indicator LED 'off' | No DMX signal is being received Bad Cable No DMX plugged in Power off at the console | Check cable and DMX run from the console |
| Two fixtures on the same DMX channel output different CCT when operated from a desk | They are set to different color profiles | Set all fixtures to the same color profile |
| Lights start flashing when DMX cable is plugged in | Light is in DMX wireless mode and receiving two DMX signals | Unplug cable or set lamp to standard DMX mode |
| Two lamps on the same DM channel appear to have different output | X They are set to different dimming curves | Set all lamps to the same dimming curve |
| DMX light flashing consister | ntl⊽ixture is in master or control mode | Set fixture to wireless or standard DMX mode |
| Two lamps appear to have different output >4000K | It is likely fixtures are set to different output profiles | Set both to 5.2 Standard or Flat mode |

MEASURING CCT

COLOR METRICS

The diagrams below show, histogram, spectral power distribution and chip chart images gathered with a standard Silk LED at the 3200K and 5600K set points.

These metrics are typical of a Silk LED fixture, but individual units may vary within manufacturing tolerance. It is the user's responsibility, as is customary and standard practice, to shoot image capture tests when combining sources using different core technology such as HMI, fluorescent, tungsten or RGB LED fixtures to ensure compatibility.



CRI is not a good measure of the appropriateness of the color output for image capture and should not be relied on when comparing fixtures.

| PARAMETER | 3200K | 5600K |
|-----------|-------|-------|
| CRI Ra | 96 | 98 |
| R9 | 96 | 98 |
| CQS | 91 | 96 |
| TLCI | 98 | 96 |

Data: DMX 512 - 5P XLR In/Out

Approvals: ETL/UL1573 and 8750 CE RoHS IP20 Rated IEC 62471:2006, EN 62471:2008

FLICKER FREE

Silk LED has been tested at 1,000fps, 1,500fps, 2,000fps and 3,000fps at a range of color temperatures.

Silk LED has also been verified at 1,000 fps at 100%, 50% and 25% output and exhibits no evidence of wavering or flicker.

A Vision Research Miro LG320S was used for the test and a high speed specialist validated the process and results.

ENVIRONMENTAL: Disposal of Old Electrical & Electronic Equipment

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.



2 YEAR LIMITED WARRANTY

Rosco Laboratories warrants to the first retail purchaser that this Product will be free from defects in workmanship and material for a period of twenty four (24) months from the date of original purchase. For warranty service you must be able to provide proof of purchase. Should this Product prove defective during the warranty period, please contact your local Rosco office for Return Authorization. No warranty service will be performed without Return Authorization. At Rosco's sole discretion, covered Products will be repaired or replaced with new or refurbished equipment or a model of like kind and quality. Exchanged or replaced parts and Products assume the remaining warranty period of the original product covered by this limited warranty. You are responsible for securely packaging the defective Product and returning it to Rosco as per the instructions of the Return Authorization. Within North America, Rosco will ship the repaired or replaced Product to you freight prepaid. Shipments to other locations will be made freight collect. This warranty is non-transferable and does not extend beyond the first retail purchase of the Product.

This warranty does not cover damage to the Rosco Product caused by parts not manufactured, distributed or certified by Rosco. Rosco is not obligated to provide warranty service should the Product fail to beproperly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as flood, fire and lightning, improper electrical current or unauthorized service repairs other than those by a Rosco Authorized Servicer.

If a claimed defect cannot be identified or reproduced, you will be held responsible for the costs incurred. Unless otherwise stipulated by state law, all warranties expressed or implied are limited to the twenty four (24) month period of this warranty.

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