

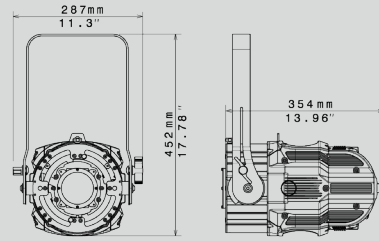
# SOPRANO 3 HQS



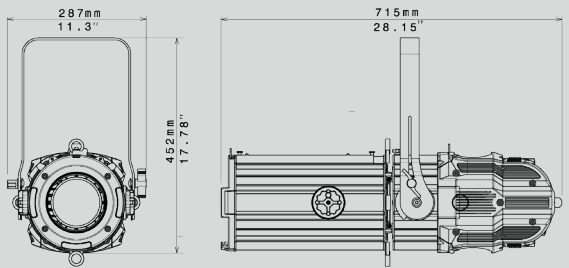
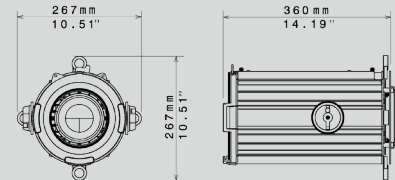
THE COLOR MANAGEMENT SYSTEM  
BY DTS IN A CONVENTIONAL  
ELLIPSOIDAL SPOTLIGHT



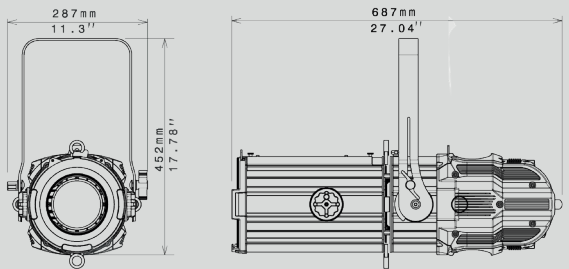
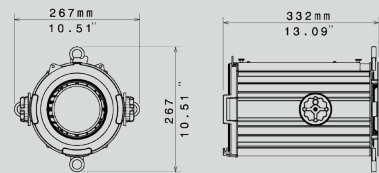
LED ENGINE



OPTICAL GROUP 15-30



OPTICAL GROUP 25-50



FEATURES



OPTIONALS

CERTIFICATIONS



CODES

**LED ENGINE - 03.TSP000.49**

**OPTICAL GROUPS**

**15-30 - 03.TSP900.49**

**25-50 - 03.TSP901.49**



## TECHNICAL DATA

### OUTPUT

- Multi chip LED Source
- Lumens output: 5,100 lm (Optical group 15-30)
- Lumens output: 6,100 lm (Optical group 25-50)
- CRI: up to 98
- TLCI: up to 96
- LED Lifespan: 20,000 hours (70% lumen output)

### OPTICAL GROUP

- Changeable optics (*Led engine and optical group are sold separately*)
- Optical Group 15-30
  - 15°-30° linear zoom
- Optical Group 25-50
  - 21°-46° linear zoom

### FRAMING SYSTEM

- Framing system composed of 4 symmetric blades  
*Blades are integrated in the optical group (not removable)*
- Blades operate on three discrete planes
- 64° full system rotation (+/- 32°)

### GOBOS

- Ø external (ED): 80 mm + 0.2/-0.2 mm
- Ø of image (ID): 50 mm
- Thickness: from 0.2 to 1.5 mm

### COLOR & WHITE GENERATION

- 6-color LED engine
- Linear CCT (1800 K - 10000 K)
- Linear 'Green saturation'
- 100 gel filters emulation:
  - Linear crossfade from gel filters emulation to CCT whites
  - Linear crossfade between emulated gel filters
  - True color of gel filters emulation at any CCT values
- "Raw" RGBACL color-mixing in 'Advanced' mode

### DIMMER

- Hi-Q Dimming technology
- Tungsten Emulation function

### CONTROL

- LCD graphic display + Jog Shuttle
- RDM/DMX 512 protocols
- 'Standard', 'Silent', 'Ultra Silent' and 'Automatic' fan modes

### Noise level

- Standard: 24dBA @ 1m (normal operation, 100% power)
- Silent: 23dBA @ 1m (normal operation, 100% power)
- Ultra Silent: 22dBA @ 1m (normal operation, 91% power)
- Automatic: fans adapt to operational status (output power priority)
- Firmware updatable via DTS firmware uploader dongle

### DMX

- CCT (Default)
  - Correlated Color Temperature
- Advanced
  - Correlated Color Temperature + Raw control for color channels RGBACL
- Basic
  - Correlated Color Temperature with priority on Gel Library and RGBACL color
- Expo
  - Dimmer 8 bit; Correlated Color Temperature priority on Gel Library
- CMY Emulation
  - Cyan, Magenta, Yellow and CTO emulation Mode

### POWER SUPPLY

- Wide range 100/240 Vac 50-60 Hz
- Power consumption: 190 W max / 230Vac
- Power Factor: PF >0.94

### CONNECTIONS

- DMX: XLR 5 pole In/Out panel connectors
- Power supply: PowerCON TRUE1 In/Out panel connectors

### CIRCUITS PROTECTIONS

- Overvoltage and overtemperature circuits protection

### OPERATING TEMPERATURE

-10° / 45° C

### STORAGE TEMPERATURE

-20° / 60° C

### PHYSICAL

- IP20
- LED engine weight:
  - 6.8 Kg (15 lbs)
- Optical group weight:
  - 15-30: 5.2 Kg (11.5 lbs)
  - 25-50: 5.9 Kg (13 lbs)
- Finishing: Black

## ACCESSORIES INCLUDED

- 1 x PowerCON TRUE1 female cable connector (code 0520P066)
- 1 x XLR 5 pins female cable connector (code 0508B147)
- 1 x XLR 5 pins male cable connector (code 0508B148)
- 1 x FilterframeBlack finishing - already installed on the projector (code 02M093424.49)

## ACCESSORIES ON REQUEST

- Gobo holder (code 03.TA229)
- Gobo Holder + Filter Soft Edge (03.TA230)
- Iris/Diaphragm (code 03.TA228)
- Barndoor 4 leaf Black finishing (code 03.TBD06.49)
- Barndoor 8 leaf Black finishing (code 03.TBD08.49)
- Outdoor DMX cable 2 x 0,25 mm2 - Flame retardant (code 0509C158)
- Aliscraf clamp for Ø 48-51 mm tube-max load 100 Kg 8code 0521A033)
- Professional G-QUICK clamp - max load 100 Kg (code 0521A037)
- Safety cable 3 x 600 mm - BGV-C1 certified (code 0521A049)
  - Single stranded: Max 20 Kg (44 lbs)
  - Double stranded: Max 30 Kg (66 lbs)
- Safety cable for Barndoor / Filterframe - Ø 0,8mm (code 0521A048)
- DTS firmware uploader dongle (code 03.LA.206)

## PHOTOMETRIC DATA OPTICAL GROUP 15-30

### BEAM ANGLE 15°

### BEAM ANGLE 30°

	mt 2 ft 6.56	mt 4 ft 13.12	mt 6 ft 19.68	mt 8 ft 26.25	mt 10 ft 32.81		mt 2 ft 6.56	mt 4 ft 13.12	mt 6 ft 19.68	mt 8 ft 26.25	mt 10 ft 32.81	
3000 K	15200	3800	1689	950	608	lux center (lx)	6400	1600	711	400	256	3000 K
	1413	353	157	88	57	foot candles (fc)	595	149	66	37	24	3000 K
4000 K	20400	5100	2267	1275	816	lux center (lx)	8400	2100	933	525	336	4000 K
	1896	474	211	118	76	foot candles (fc)	781	195	87	49	31	4000 K
5600 K	19200	4800	2133	1200	768	lux center (lx)	8000	2000	889	500	320	5600 K
	1784	446	198	112	71	foot candles (fc)	743	186	83	46	30	5600 K
	53	105	158	211	263	diameter (cm)	107	214	322	429	536	
	1.73	3.46	5.18	6.91	8.64	diameter (ft)	3.52	7.03	10.55	14.07	17.58	

## PHOTOMETRIC DATA OPTICAL GROUP 25-50

### BEAM ANGLE 21°

### BEAM ANGLE 46°

	mt 2 ft 6.56	mt 4 ft 13.12	mt 6 ft 19.68	mt 8 ft 26.25	mt 10 ft 32.81		mt 2 ft 6.56	mt 4 ft 13.12	mt 6 ft 19.68	mt 8 ft 26.25	mt 10 ft 32.81	
3000 K	12000	3000	1333	750	480	lux center (lx)	3400	850	378	213	136	3000 K
	1115	279	124	70	45	foot candles (fc)	316	79	35	20	13	3000 K
4000 K	15000	3750	1667	938	600	lux center (lx)	4400	1100	489	275	176	4000 K
	1394	349	155	87	56	foot candles (fc)	409	102	45	26	16	4000 K
5600 K	14200	3550	1578	888	568	lux center (lx)	4200	1050	467	263	168	5600 K
	1320	330	147	82	53	foot candles (fc)	390	98	43	24	16	5600 K
	74	148	222	297	371	diameter (cm)	170	340	509	679	849	
	2.43	4.86	7.30	9.73	12.16	diameter (ft)	5.57	11.14	16.71	22.28	27.85	