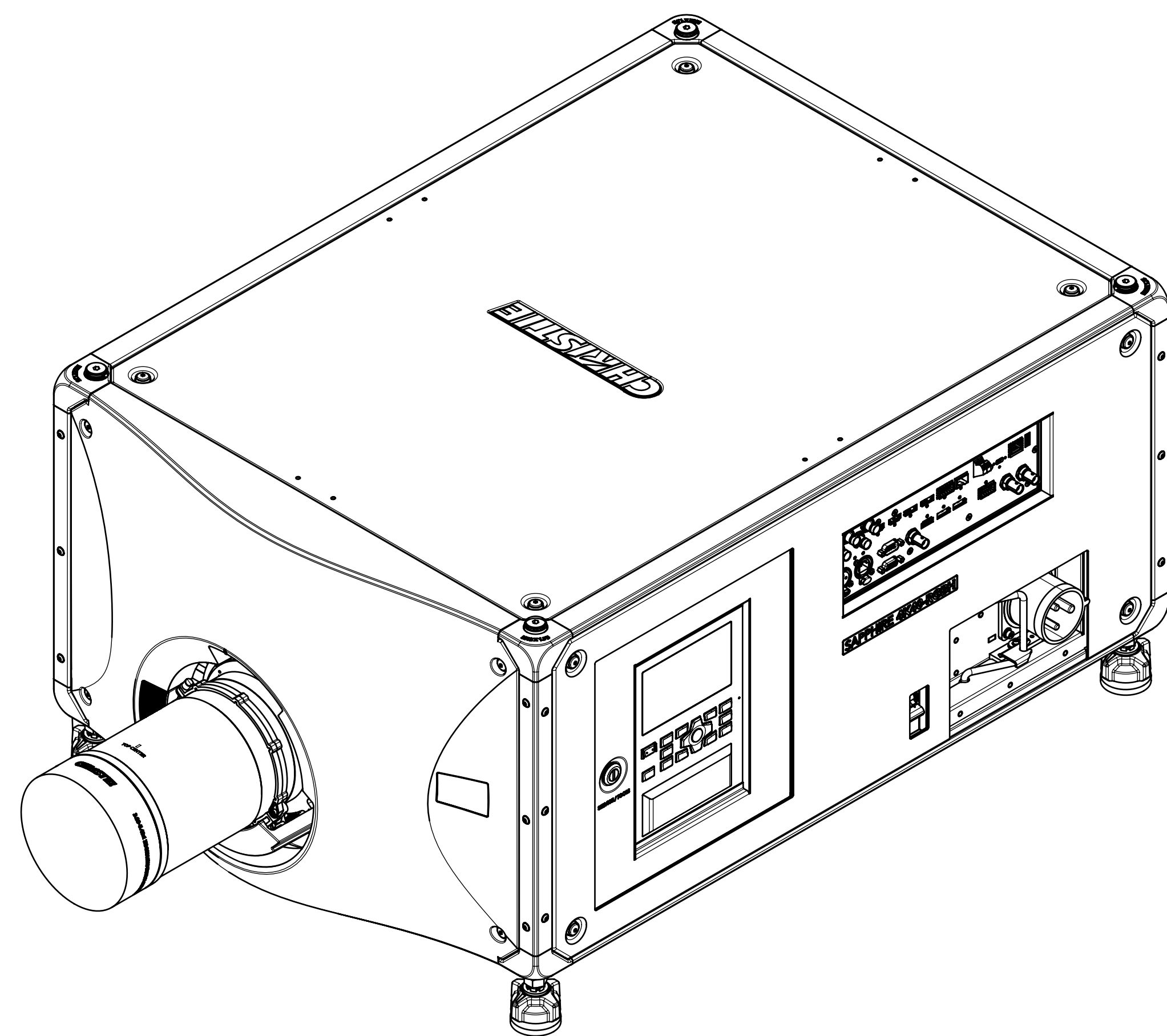
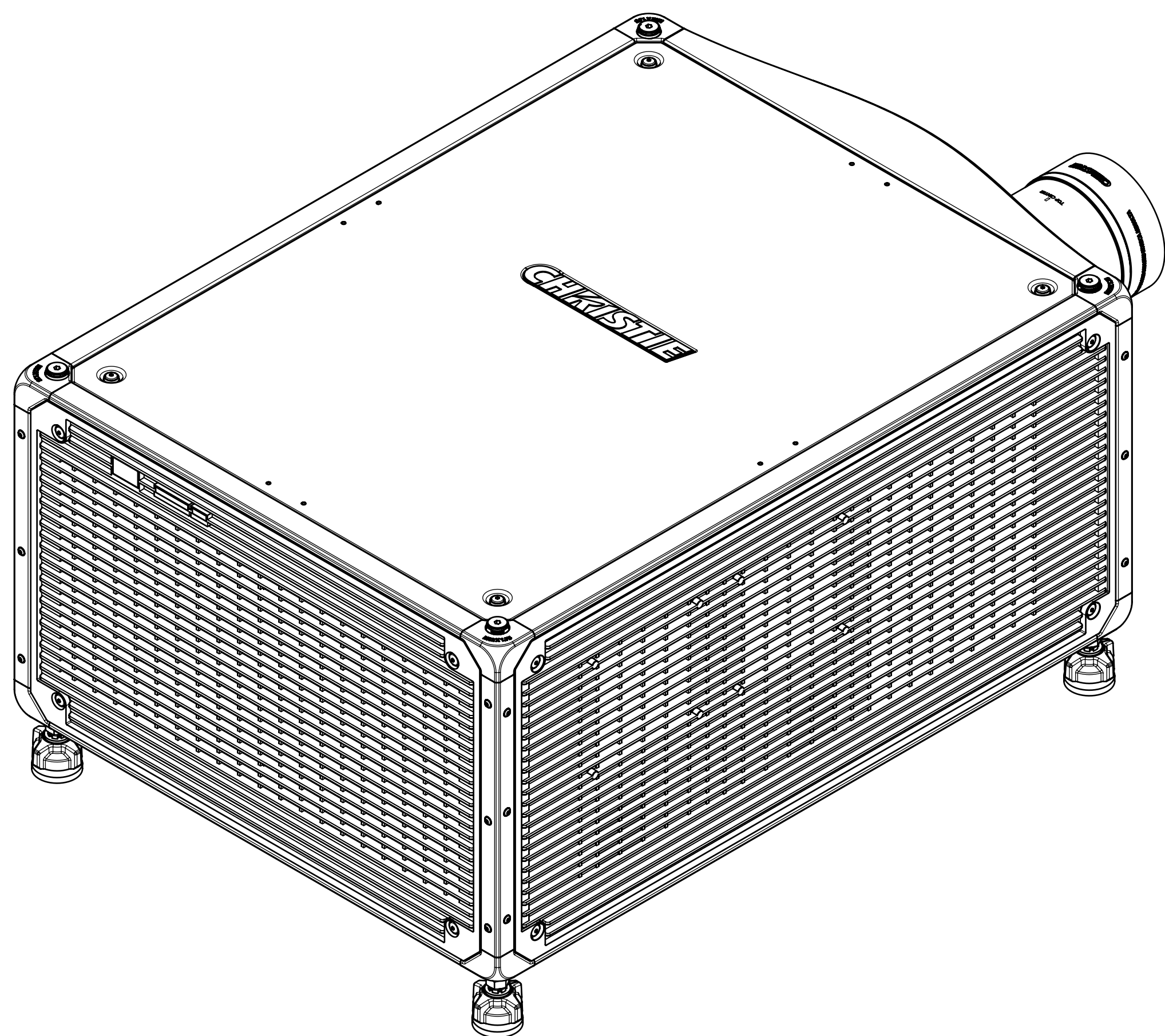
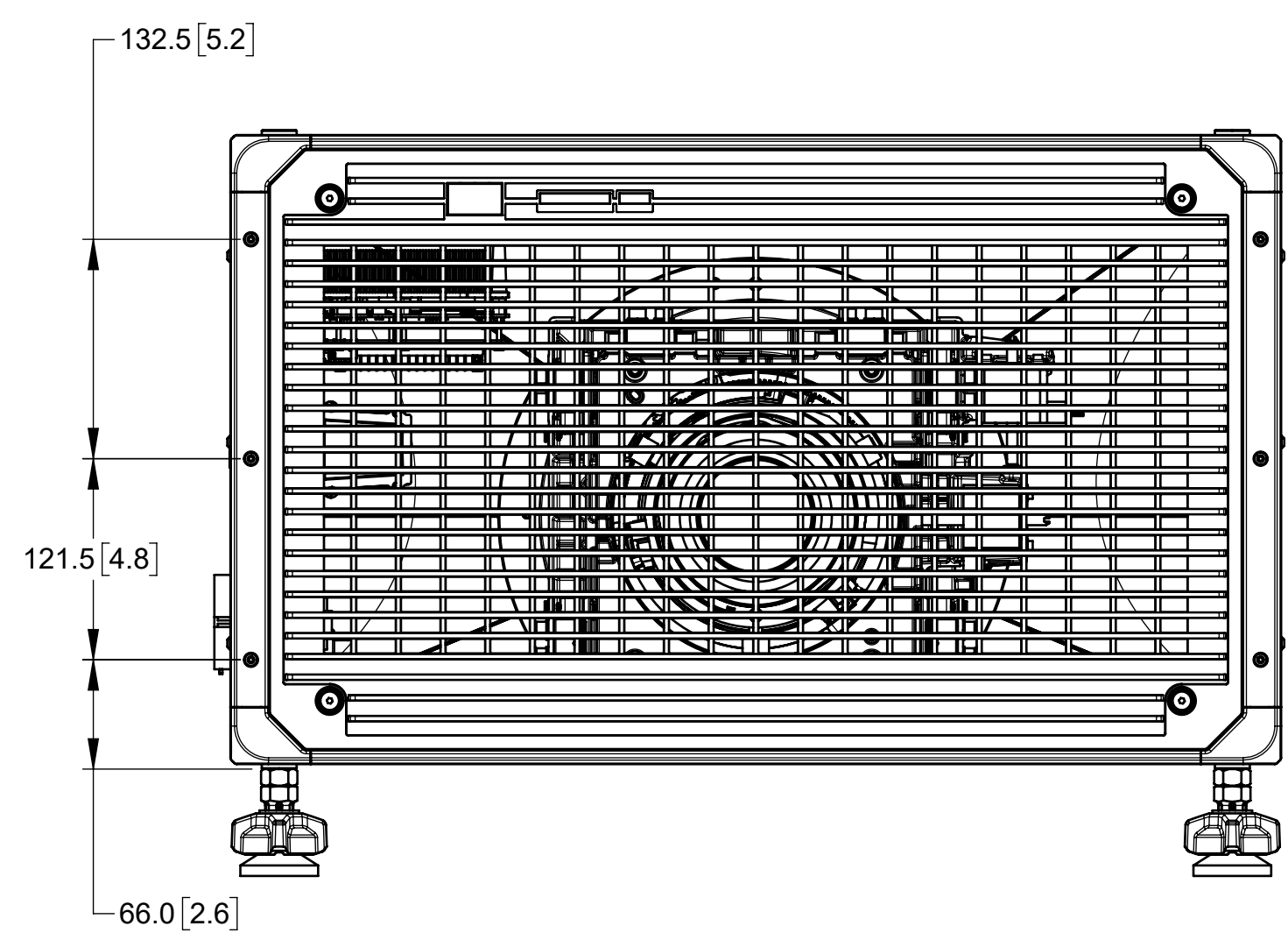
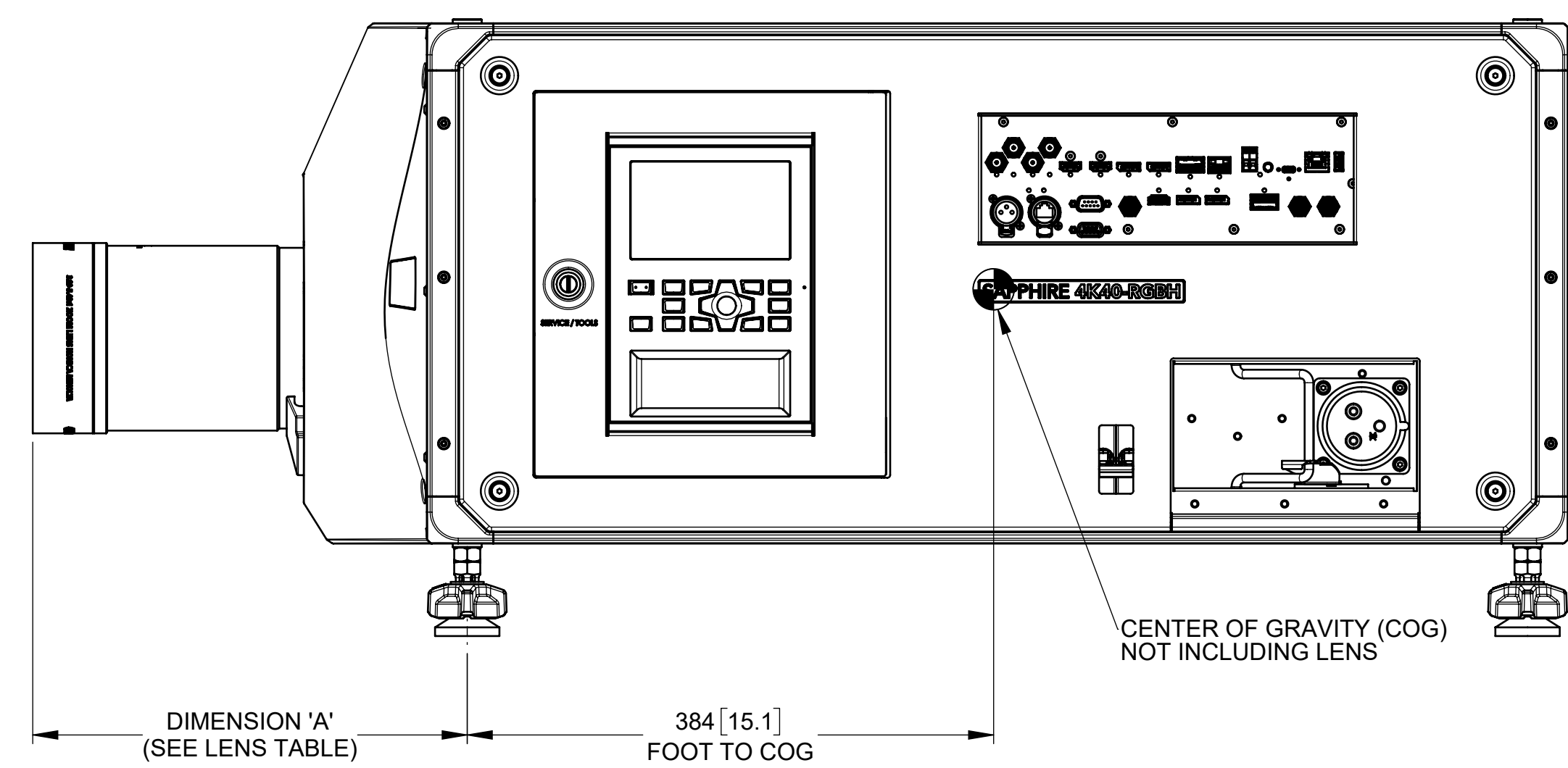
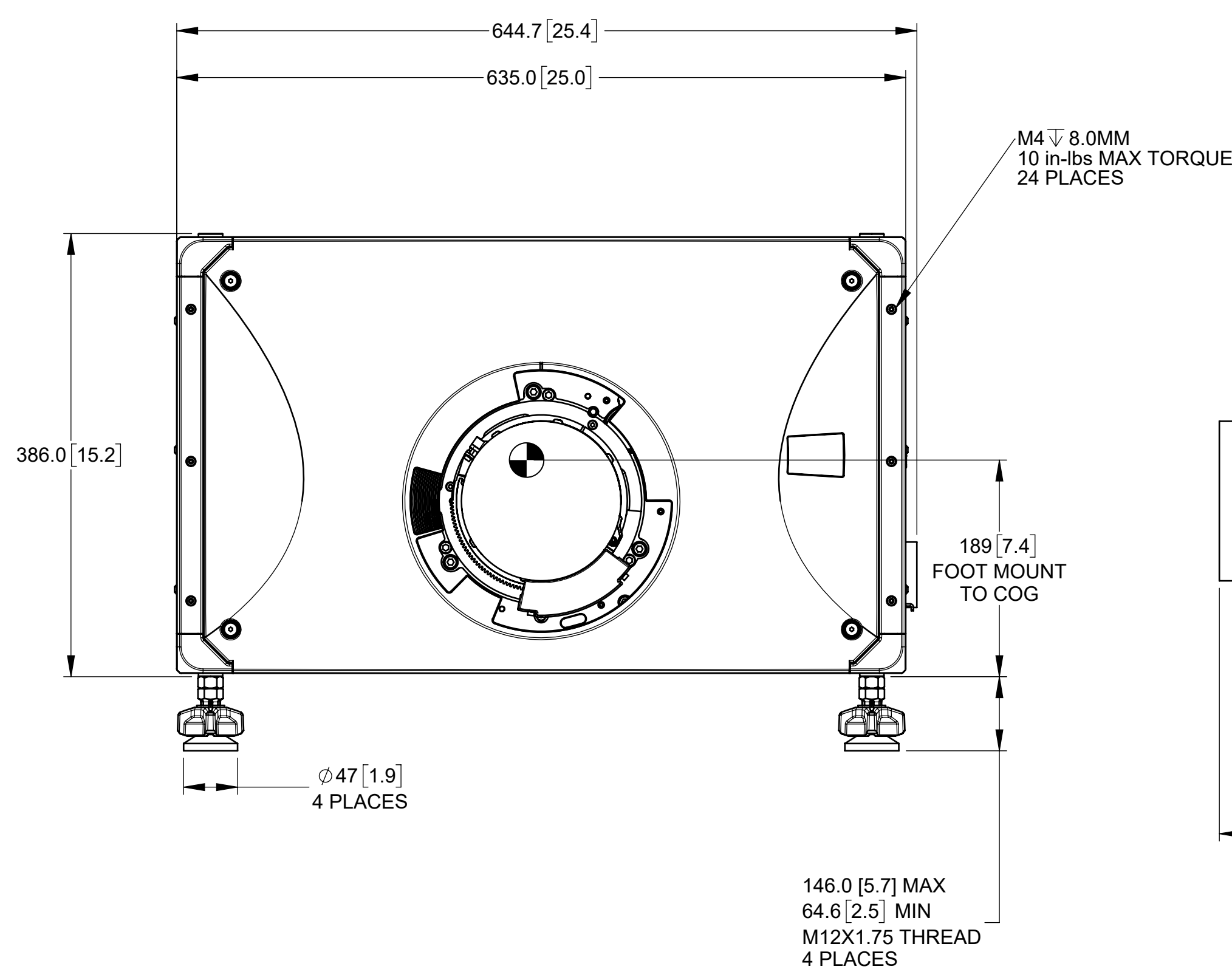
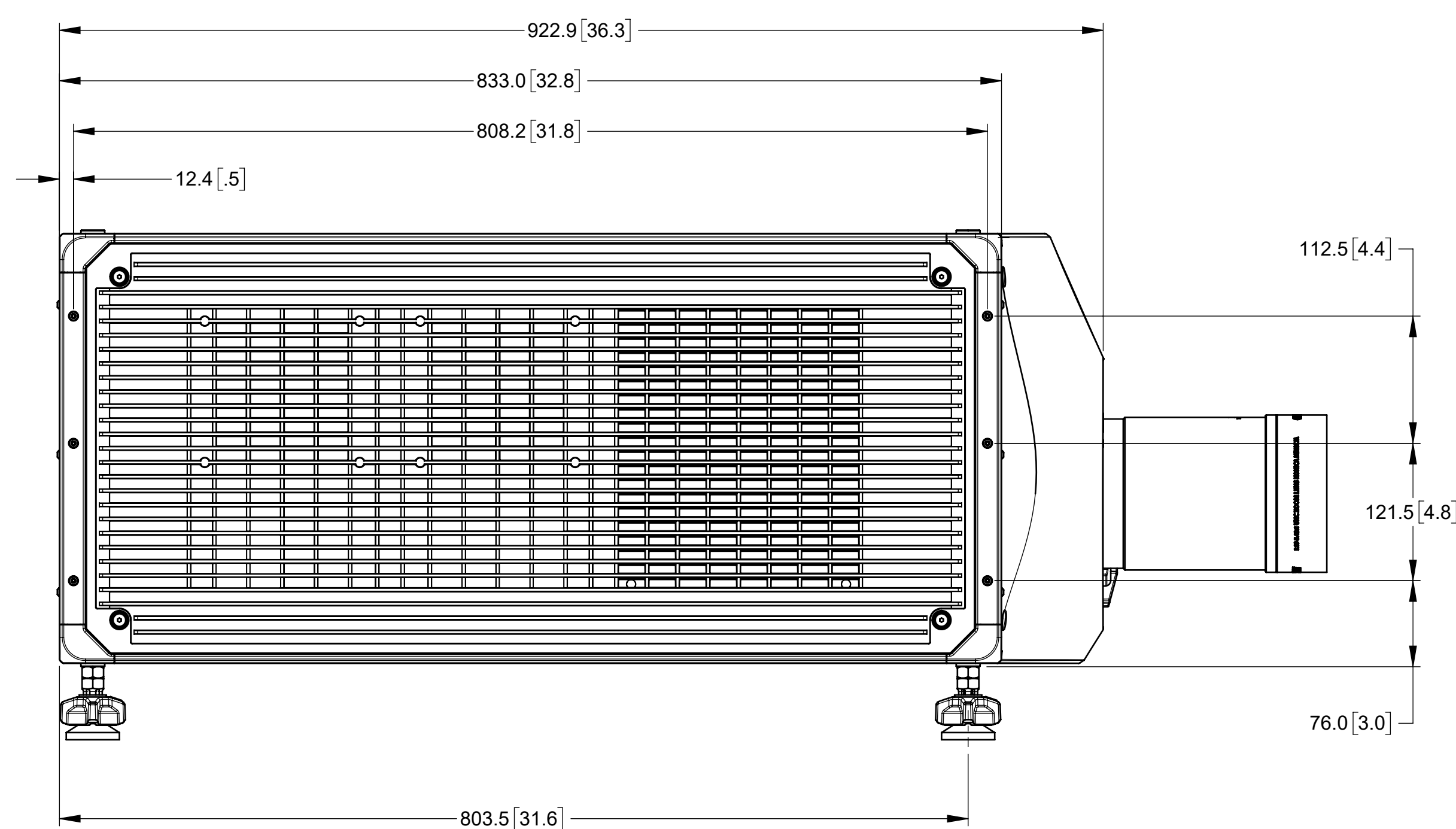
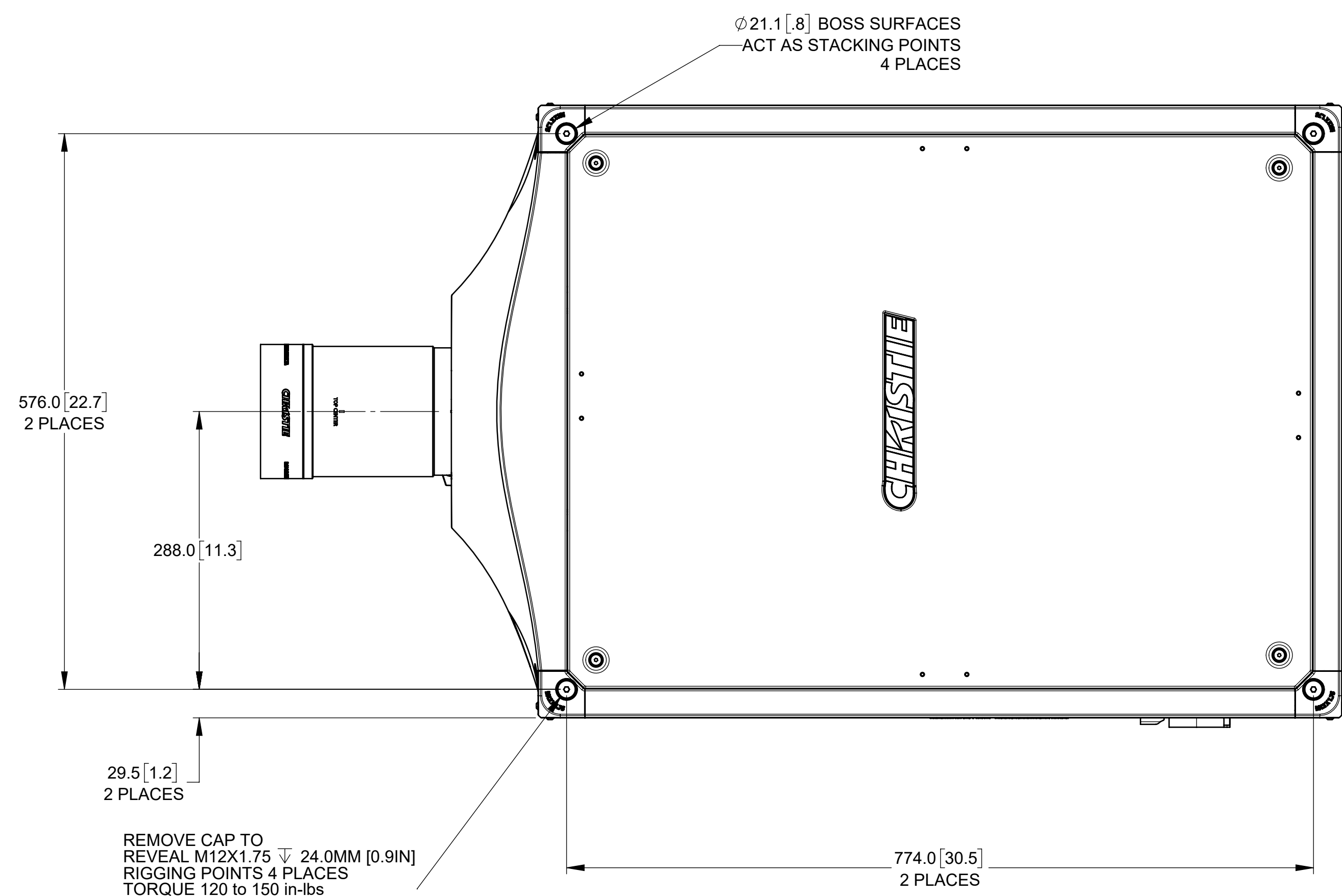




REVISION HISTORY OF: 020-104043-01			
REV	DESCRIPTION OF CHANGE	BY	REV DATE
01	INITIAL RELEASE	JS	02/18/2025



LENS TABLE (SEE SHEET 9 FOR MORE DETAILS)			
4K PROJECTION LENS	CDS PART NUMBER	DIMENSION A	LENS WEIGHT (kg (lbs))
0.38:1	144-136101-XX HB	401 (15.8)	11.0 (24.2)
0.72:1	144-110103-XX HB 163-116109-XX UHC	320 (12.6)	6.5 (14.3)
0.9:1	144-111014-XX HB 163-117100-XX UHC	333 (13.1)	6.9 (15.2)
1.13-1.31:1	144-103105-XX HB DISCONTINUED	308 (12.1)	7.6 (16.8)
1.13-1.66:1	144-129103-XX HB 163-118101-XX UHC	326 (12.8)	7.0 (15.4)
1.31-1.63:1	144-104106-XX HB DISCONTINUED	256 (10.1)	6.7 (14.8)
1.45-2.17:1	144-130105-XX HB 163-119102-XX UHC	277 (10.9)	6.7 (14.8)
1.63-2.17:1	144-105107-XX HB DISCONTINUED	244 (9.6)	6.2 (13.7)
1.99-2.71:1	144-106108-XX HB DISCONTINUED	200 (7.9)	5.9 (13.0)
1.95-3.26:1	144-131106-XX HB 163-120103-XX UHC	192 (7.6)	5.3 (11.7)
2.71-3.89:1	144-107109-XX HB 163-121105-XX UHC	245 (9.6)	6.0 (13.2)
3.89-5.43:1	144-108100-XX HB 163-122106-XX UHC	317 (12.5)	7.3 (16.1)
4.98-7.69:1*	144-109101-XX HB*	548 (21.6)*	7.6 (16.8)

* Requires a lens hood extension to use with this product. Dimension 'A' length includes lens hood.

UNITS

INCHES

☒

MILLIMETRES

☐

UNLESS OTHERWISE SPECIFIED

INTERPRET DIMENSIONS AND TOLERANCES
PER ASME Y14.5M-1995

TOLERANCES APPLY AS SHOWN BELOW

DECIMAL PLACES	INCHES	MILLIMETRES
XXX	± 0.03	± 1.1
XX	± 0.125	± 3.1
X	± 0.250	± 6.3

ANGULAR DIMENSIONS
XX°
XX.X°

DRAWN BY: J. JONES

DRAWN DATE: 07/02/2023

APPROVED BY: A. VARESHMAN

APPROVAL DATE: 04/04/2023

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DWG LINE SAPPHIRE 4K40-RGBH

THIRD ANGLE PROJECTION



020

E

SCALE

PART NUMBER

020-104043-01

MASS

LBS L: KG

REVISION

01

SHEET 1 OF 9

8	7	6	5	4	3	2	1																																																																																																																																								
Projector Specifications <table><tr><td colspan="8">PROJECTOR SPECIFICATIONS</td></tr><tr><td colspan="2">MODEL NAME</td><td colspan="6">SAPPHIRE 4K40-RGBH</td></tr><tr><td colspan="2"></td><td colspan="3">LIMITED BRIGHTNESS</td><td colspan="3">FULL BRIGHTNESS</td></tr><tr><td colspan="2">OPERATING TEMPERATURE RANGE:</td><td colspan="6">5°C TO 40°C [41°F TO 104°F]</td></tr><tr><td colspan="2">OPERATING ALTITUDE:</td><td colspan="6">0-3000M [0-9840 FT]</td></tr><tr><td colspan="2">MASS:</td><td colspan="6">94.5 KG [208LBS], NO LENS</td></tr><tr><td colspan="2">TILT:</td><td colspan="6">PITCH: +5° / -15° ROLL: +3° / -3°</td></tr><tr><td colspan="2">POWER REQUIREMENT:</td><td colspan="3">100-120VAC, 12A, 50/60HZ</td><td colspan="3">200-240VAC, 20A, 50/60HZ</td></tr><tr><td colspan="2">OPTIMAL TEMPERATURE:</td><td colspan="6">23°C [73°F]</td></tr><tr><td colspan="2">OPTIMAL HUMIDITY:</td><td colspan="6"><65% RH</td></tr><tr><td colspan="2">RELATIVE HUMIDITY (NON-CONDENSING):</td><td colspan="6">10 % TO 80 %</td></tr><tr><td colspan="2">NOMINAL¹ POWER CONSUMPTION:</td><td colspan="3">1147 W</td><td colspan="3">2898 W</td></tr><tr><td colspan="2">RATED² POWER CONSUMPTION:</td><td colspan="3">1200 W</td><td colspan="3">4000 W</td></tr><tr><td colspan="2">STANDBY³ ECO MODE</td><td colspan="6">56 W</td></tr><tr><td colspan="2">ROOM HEAT LOAD (NOMINAL):</td><td colspan="3">3914 BTU/hr</td><td colspan="3">9888 BTU/hr</td></tr><tr><td colspan="2">ROOM HEAT LOAD (RATED):</td><td colspan="3">4095 BTU/hr</td><td colspan="3">13,649 BTU/hr</td></tr><tr><td colspan="2">NOMINAL BRIGHTNESS OUTPUT (ISO):</td><td colspan="3">10800 lm with HB LENS</td><td colspan="3">40900 lm with HB LENS</td></tr></table>								PROJECTOR SPECIFICATIONS								MODEL NAME		SAPPHIRE 4K40-RGBH								LIMITED BRIGHTNESS			FULL BRIGHTNESS			OPERATING TEMPERATURE RANGE:		5°C TO 40°C [41°F TO 104°F]						OPERATING ALTITUDE:		0-3000M [0-9840 FT]						MASS:		94.5 KG [208LBS], NO LENS						TILT:		PITCH: +5° / -15° ROLL: +3° / -3°						POWER REQUIREMENT:		100-120VAC, 12A, 50/60HZ			200-240VAC, 20A, 50/60HZ			OPTIMAL TEMPERATURE:		23°C [73°F]						OPTIMAL HUMIDITY:		<65% RH						RELATIVE HUMIDITY (NON-CONDENSING):		10 % TO 80 %						NOMINAL ¹ POWER CONSUMPTION:		1147 W			2898 W			RATED ² POWER CONSUMPTION:		1200 W			4000 W			STANDBY ³ ECO MODE		56 W						ROOM HEAT LOAD (NOMINAL):		3914 BTU/hr			9888 BTU/hr			ROOM HEAT LOAD (RATED):		4095 BTU/hr			13,649 BTU/hr			NOMINAL BRIGHTNESS OUTPUT (ISO):		10800 lm with HB LENS			40900 lm with HB LENS		
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System Nominal Efficiency⁴ <table><tr><td>PROJECTOR</td><td colspan="3">9.4 lm/W</td><td colspan="3">14.1 lm/W</td></tr></table>								PROJECTOR	9.4 lm/W			14.1 lm/W																																																																																																																																			
PROJECTOR	9.4 lm/W			14.1 lm/W																																																																																																																																											
GENERAL GUIDELINES FOR APPLICATIONS USING A PROJECTOR ENCLOSURE: When installing the projector into an enclosure the following general guidelines are recommended: 1. Identify all the inlet and exhaust ports of the projector. 2. The enclosure should be designed to prevent hot air recirculation within the enclosure. 3. Ducting the projector exhaust direct to outside of enclosure is preferred. 4. When using a ducting system, the inlet and exhaust ducts should be sized to reduce any pressure drop. Use of an inline booster fan is an option. 5. For a fully sealed enclosure, humidity level monitoring is required to ensure the unit does not operate at temperatures below the dew point. This could cause condensation and other issues. 6. For optimal performance, set the projector to performance mode.																																																																																																																																															
POWER CONSUMPTION NOTES: ¹Nominal - Measured at 100% brightness (DCI white balanced at 25C ambient with LiteLoc on and standard fan profile. ²Rated - Maximum power consumption - to be used for HVAC and breakers design. ³Standby - ECO Mode (w/ touch panel) - Light source off, Light Engine Off, Electronics off (including IMB). ⁴System Nominal Efficiency - Calculated based on nominal power consumption with HB Lens.																																																																																																																																															
8	7	6	5	4	3	2	1																																																																																																																																								

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PROPRIETARY

USE

E

TAB NUMBER

020-104043-01

REVISION

01

SCALE

1:10

MASS

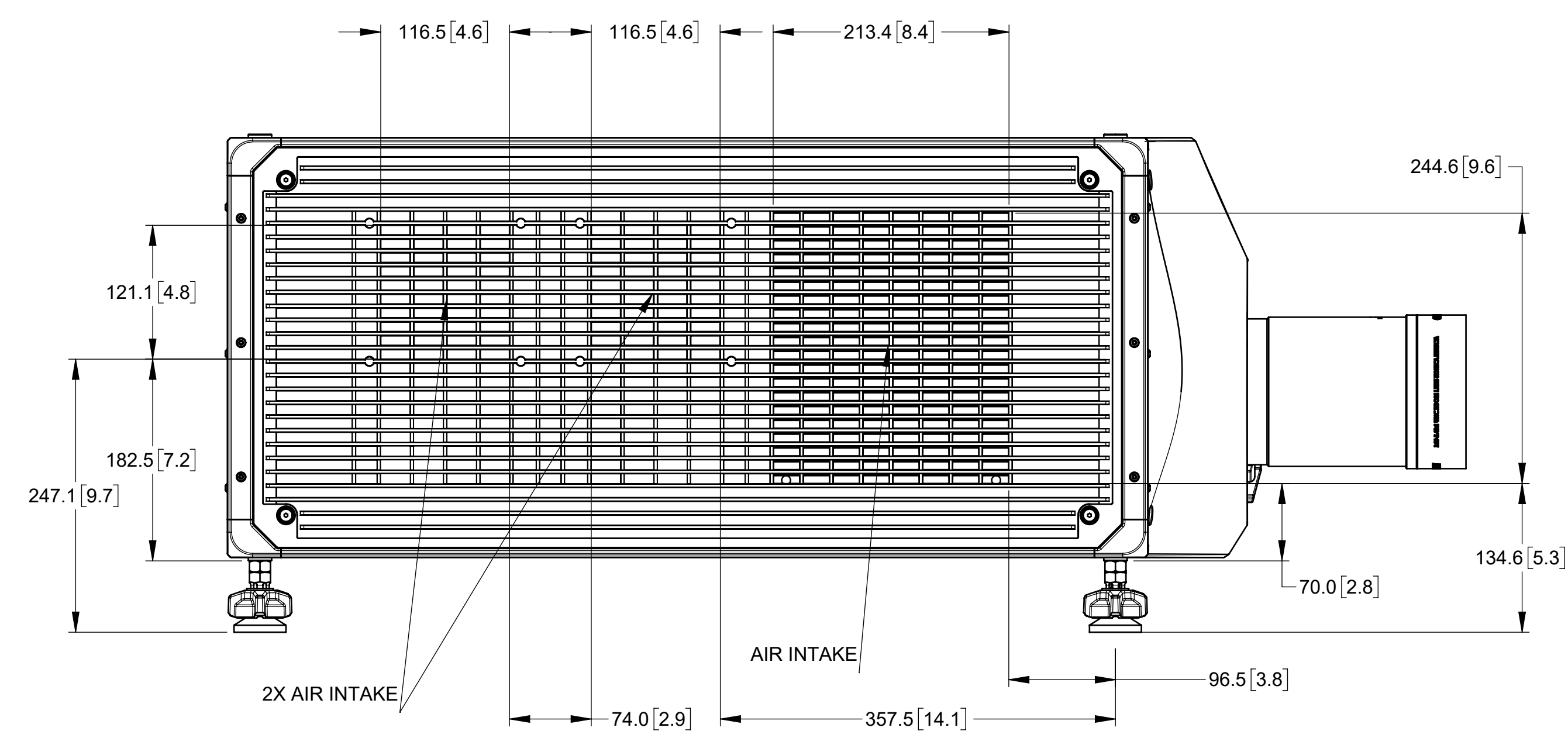
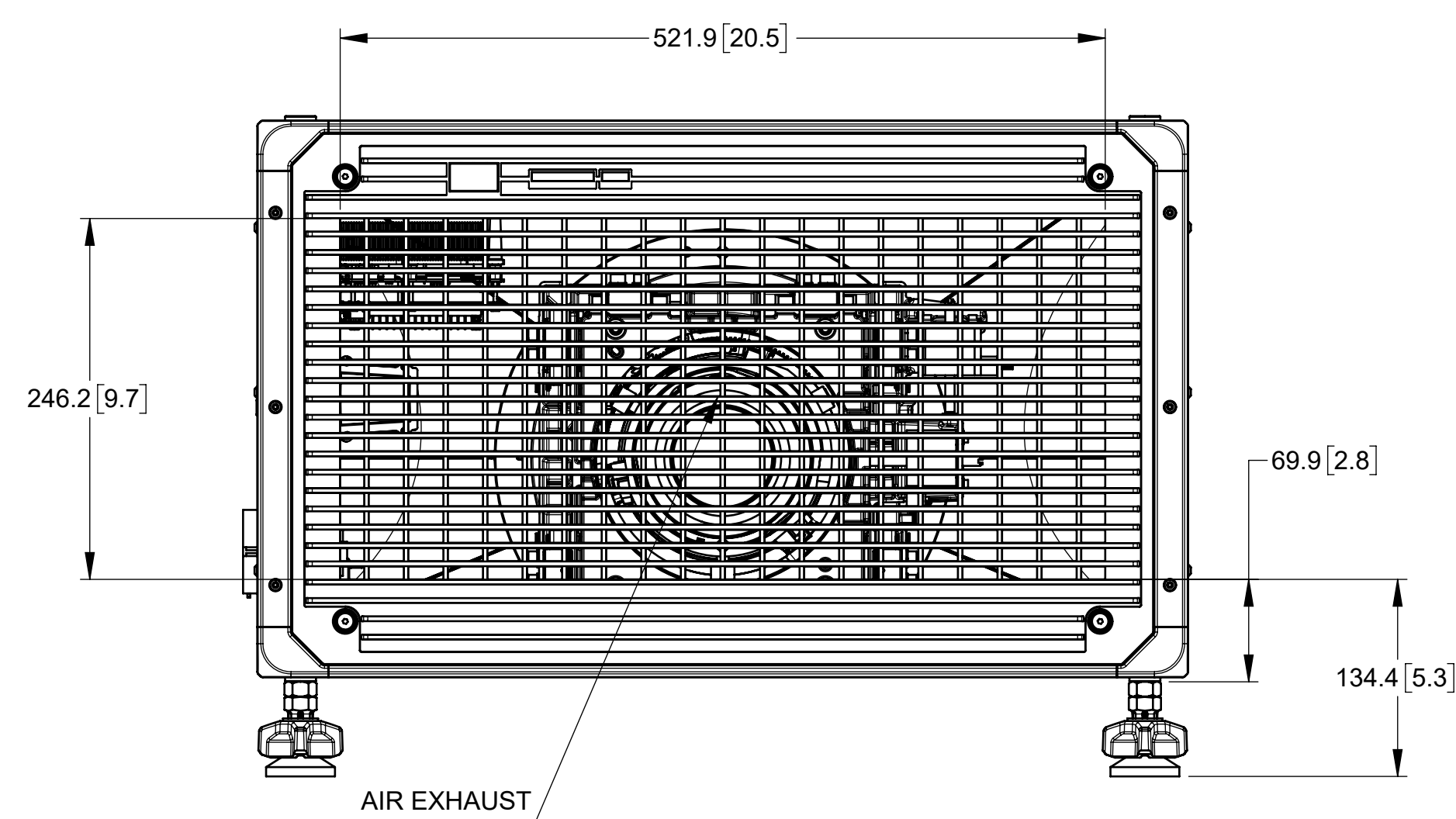
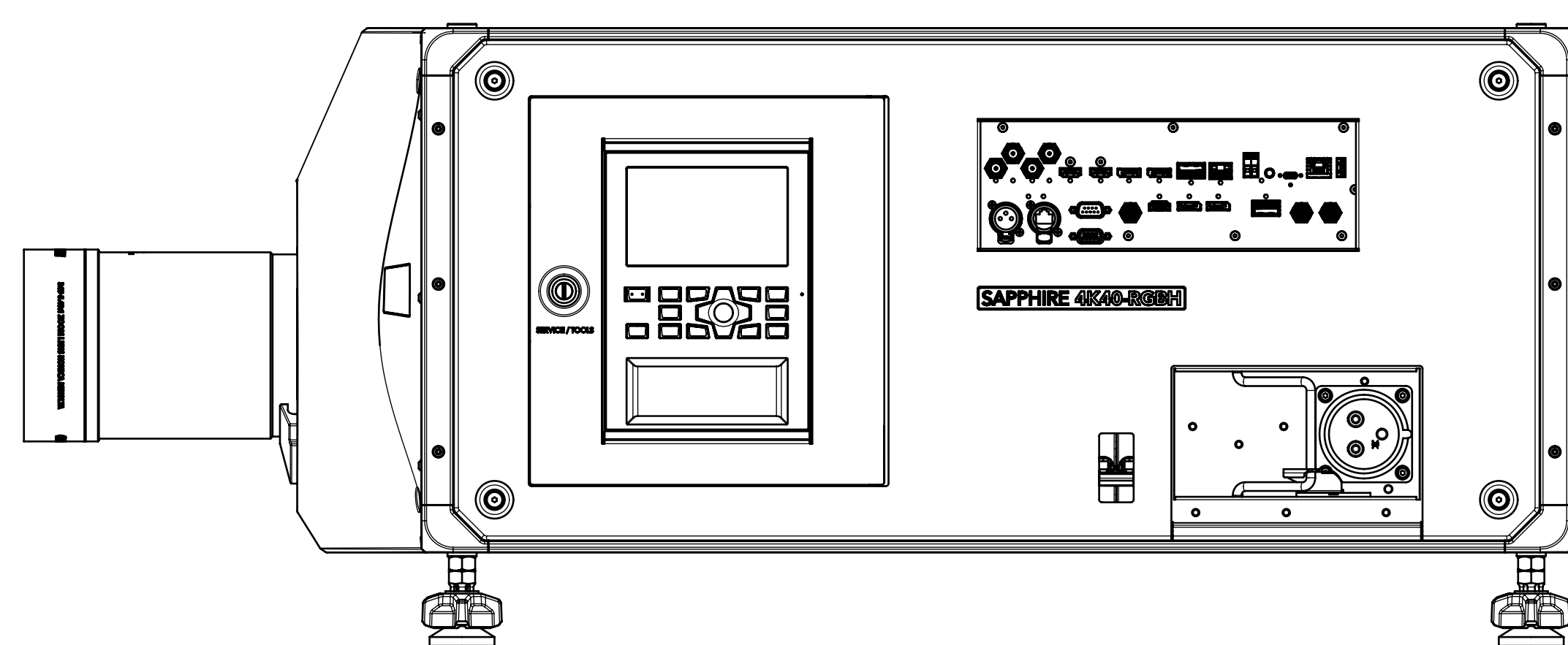
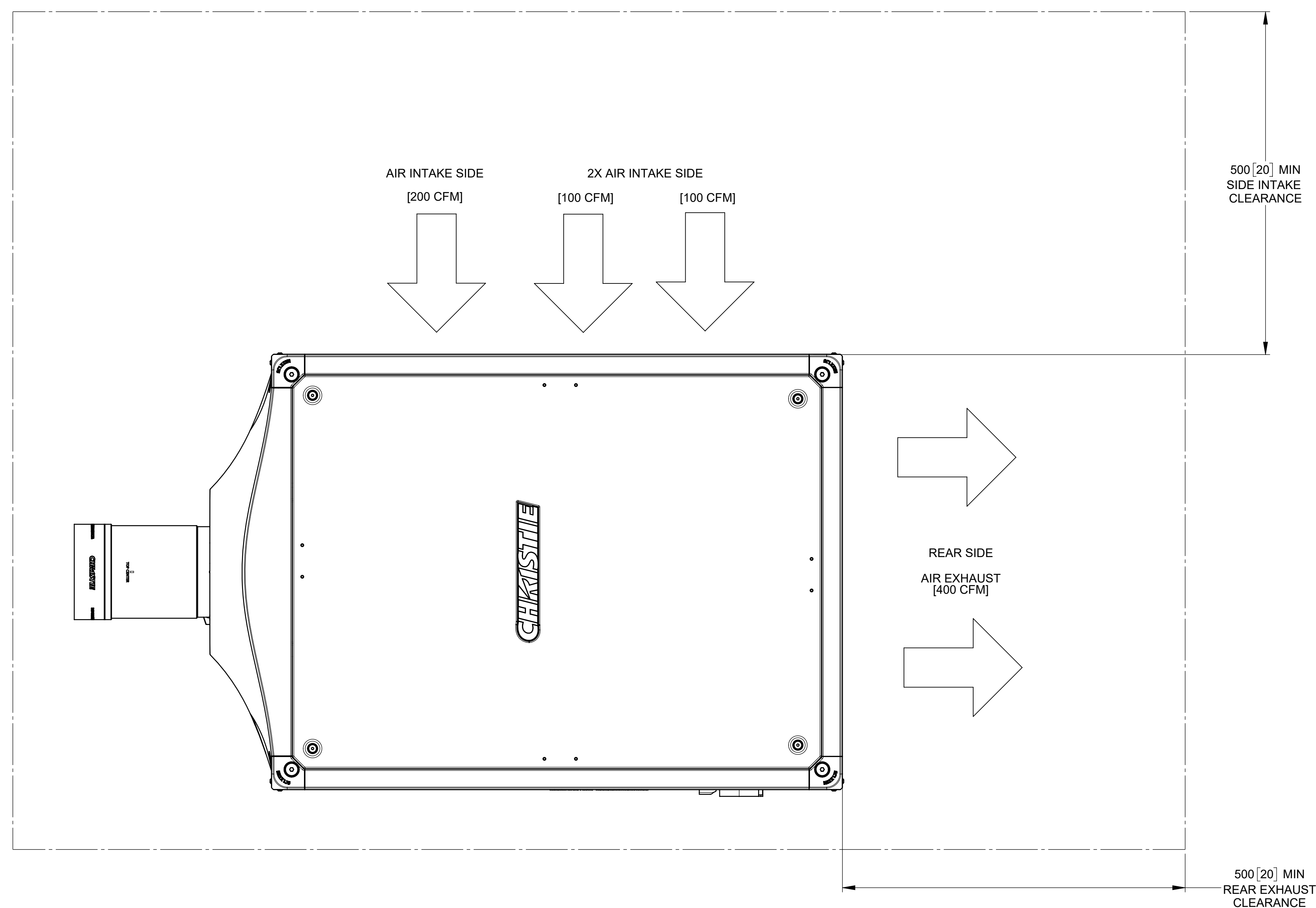
- LBS (- KG)

SHEET 2 OF 9

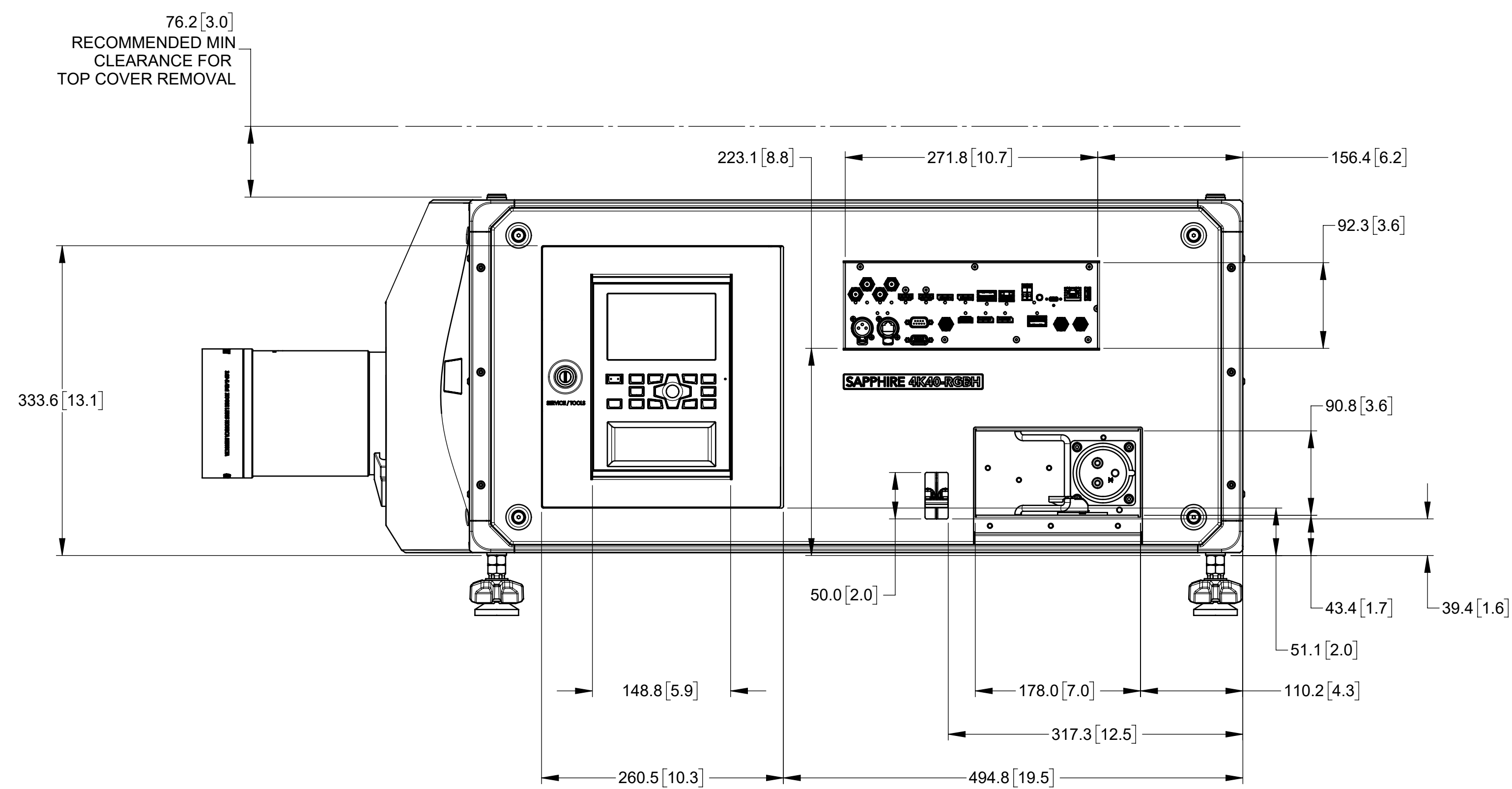
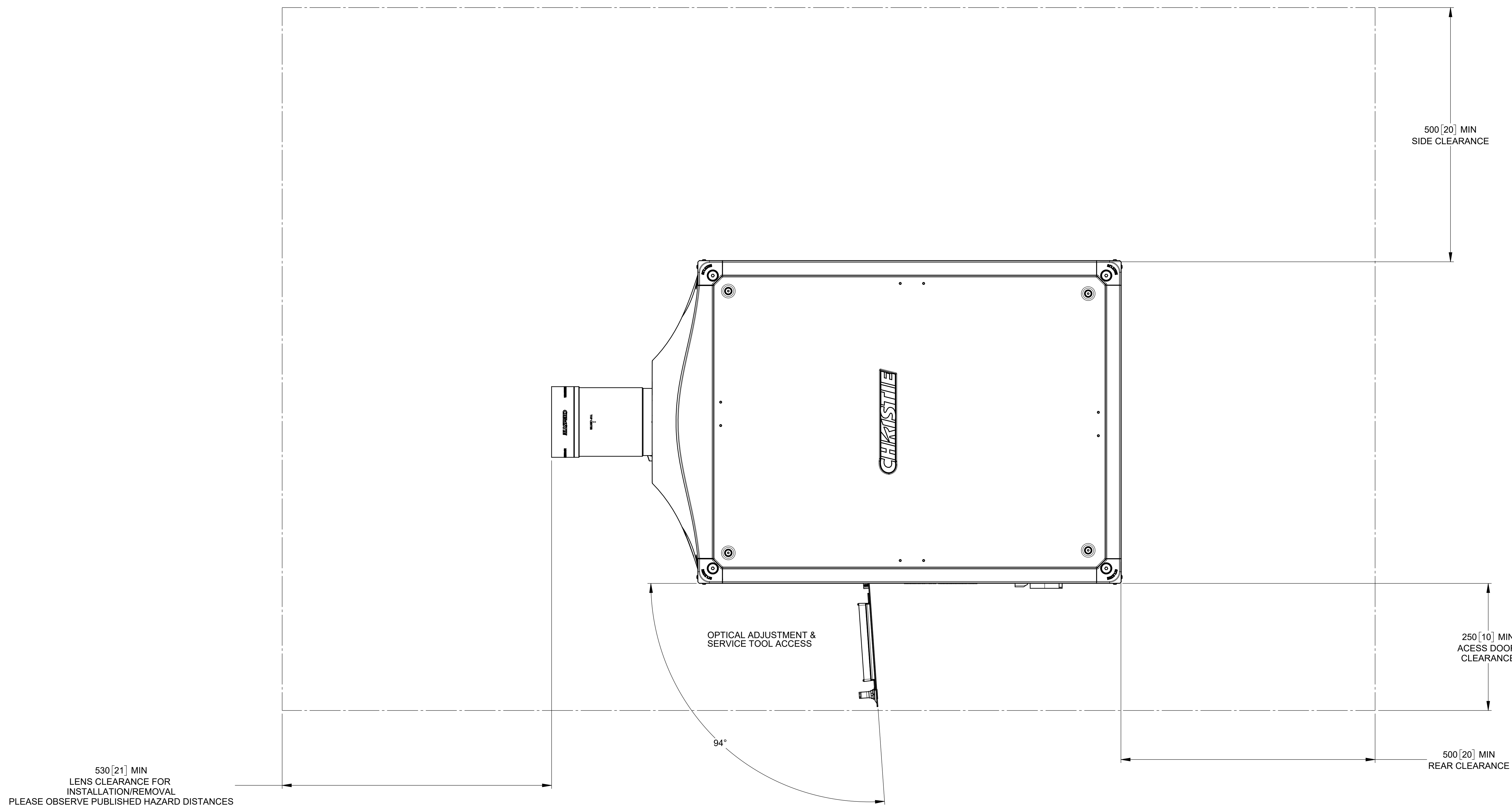
GENERAL NOTES:

1. AIRFLOW VALUE BASED ON MAXIMUM FAN SPEED (PERFORMANCE MODE)

MINIMUM CLEARANCE FOR AIRFLOW



MINIMUM CLEARANCE FOR MAINTENANCE ACCESS



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CHRESTE

DATE: **E**

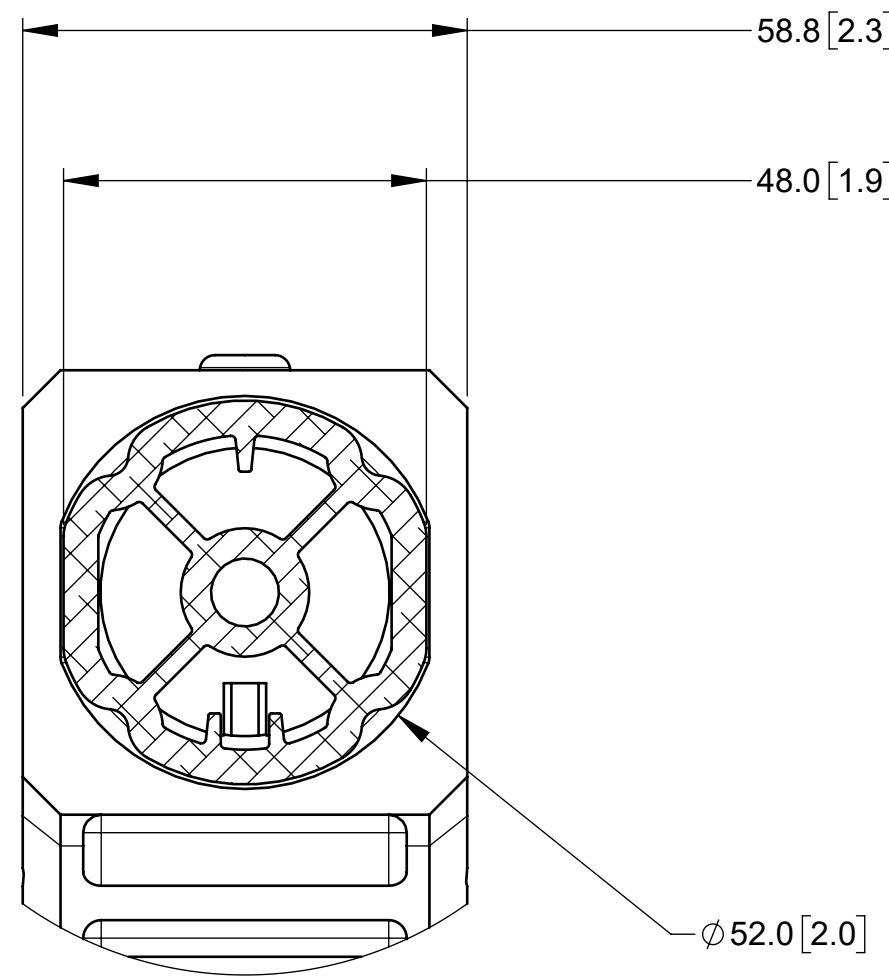
PART NUMBER: **020-104043-01**

SCALE: 1:4

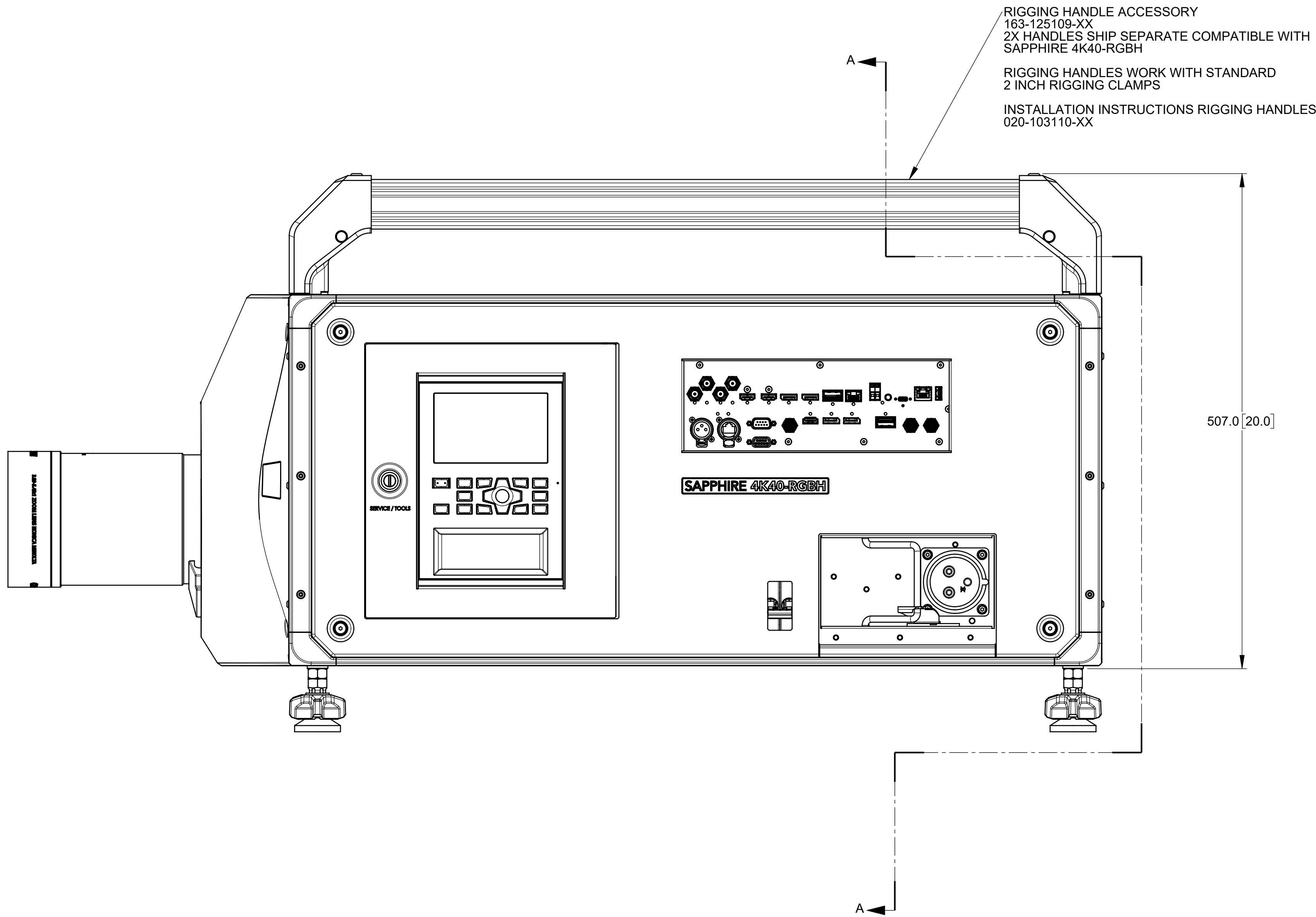
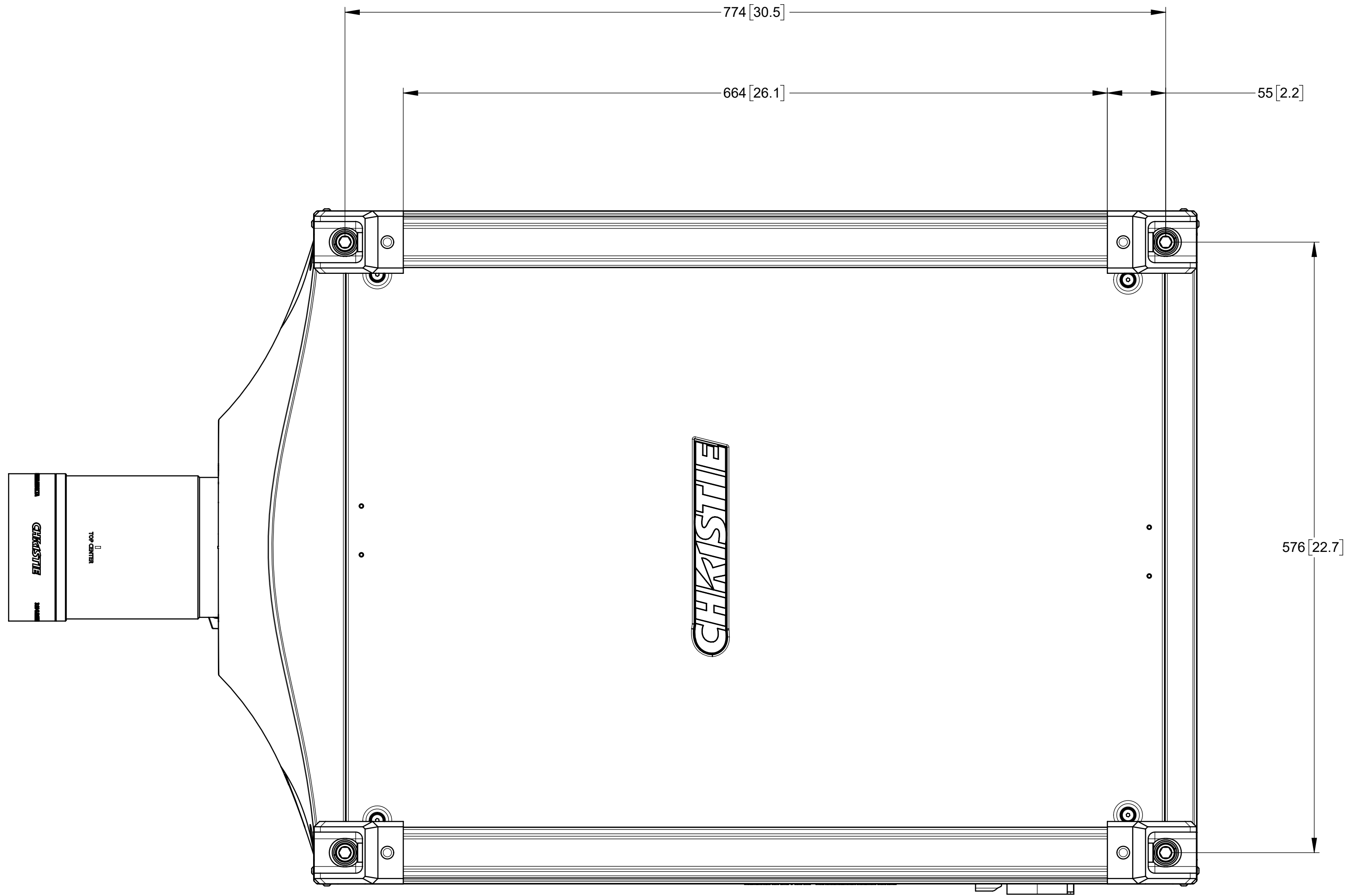
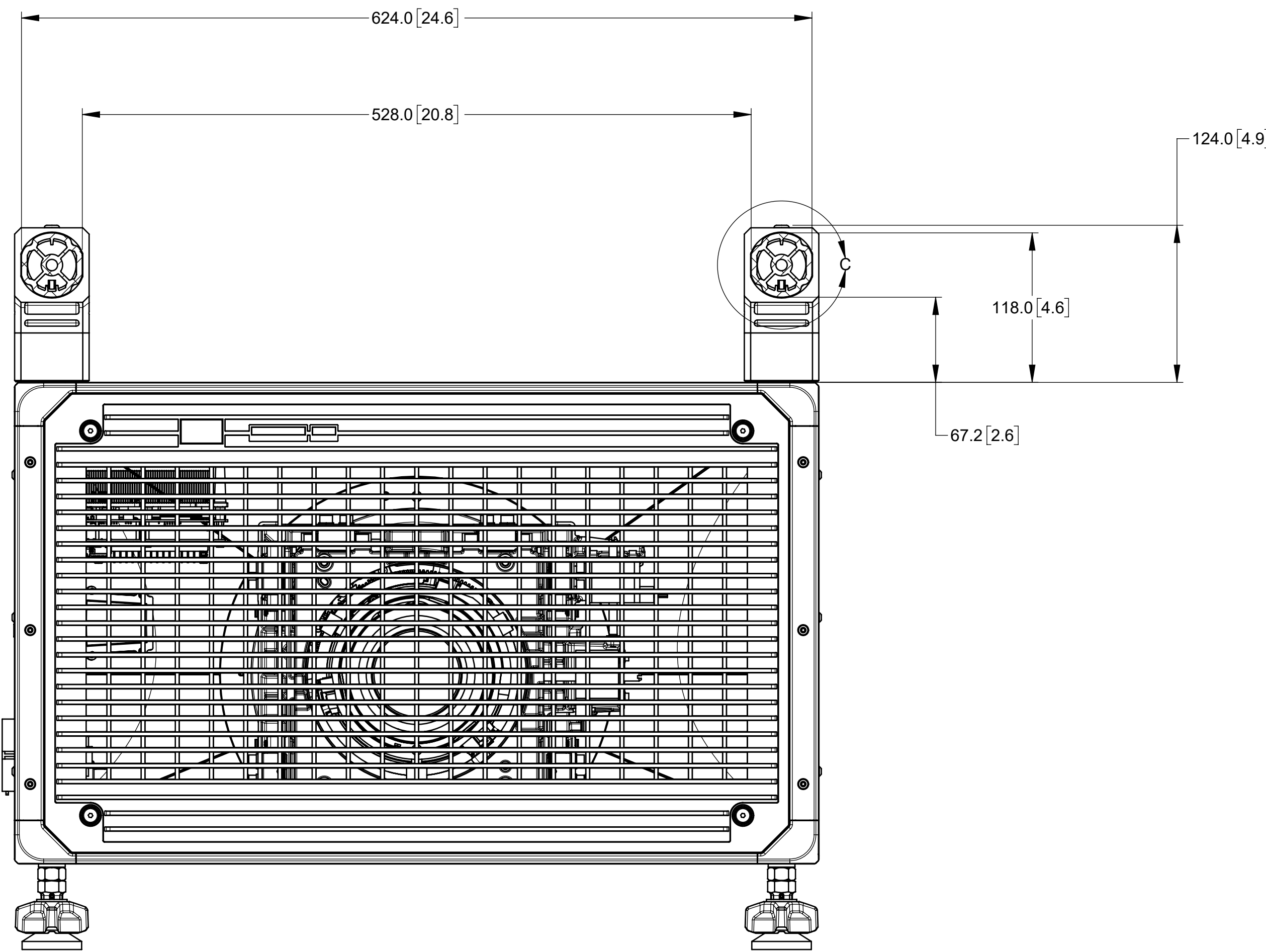
MASS: - LBS [- KG]

SHEET 4 OF 9

ACCESSORIES



DETAIL C
SCALE 1 : 1



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CHRISTIE®

SCALE 1:3

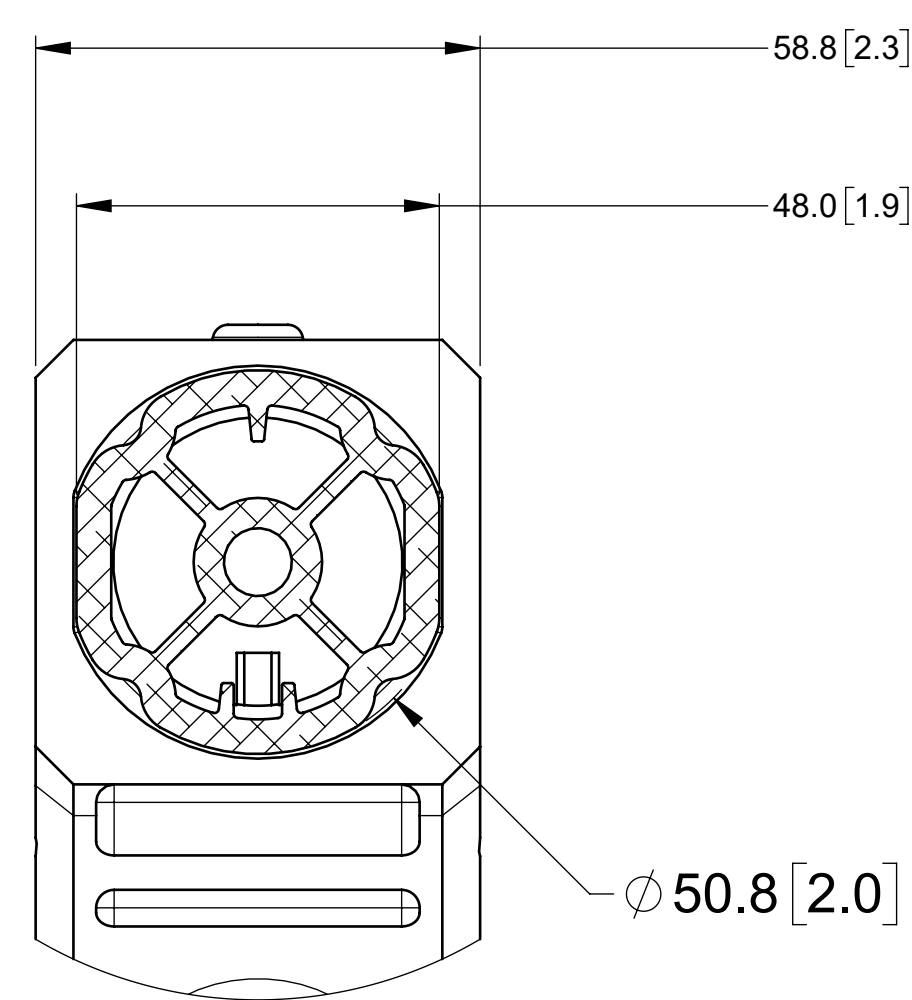
MASS - LBS [KG]

SHEET 5 OF 9

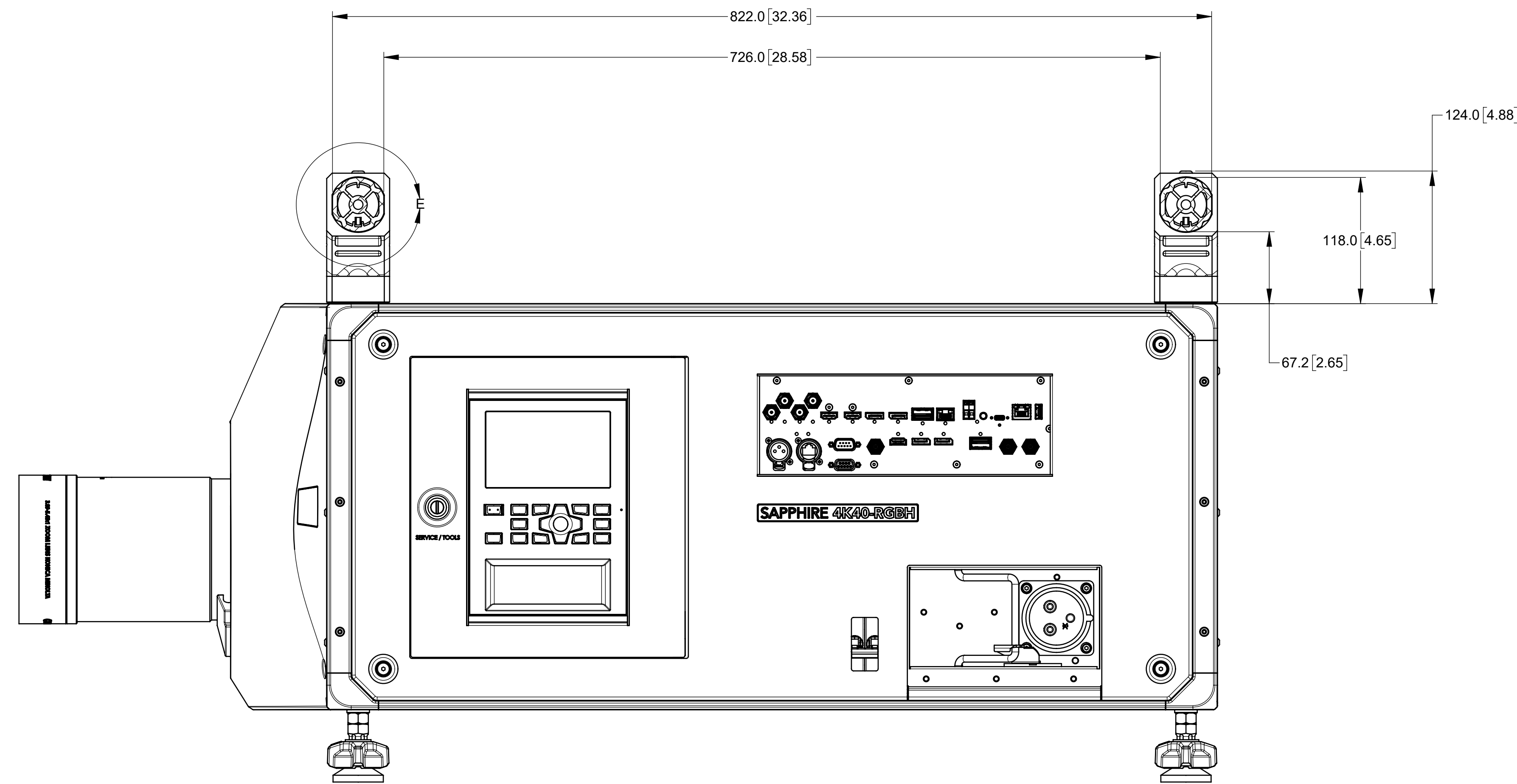
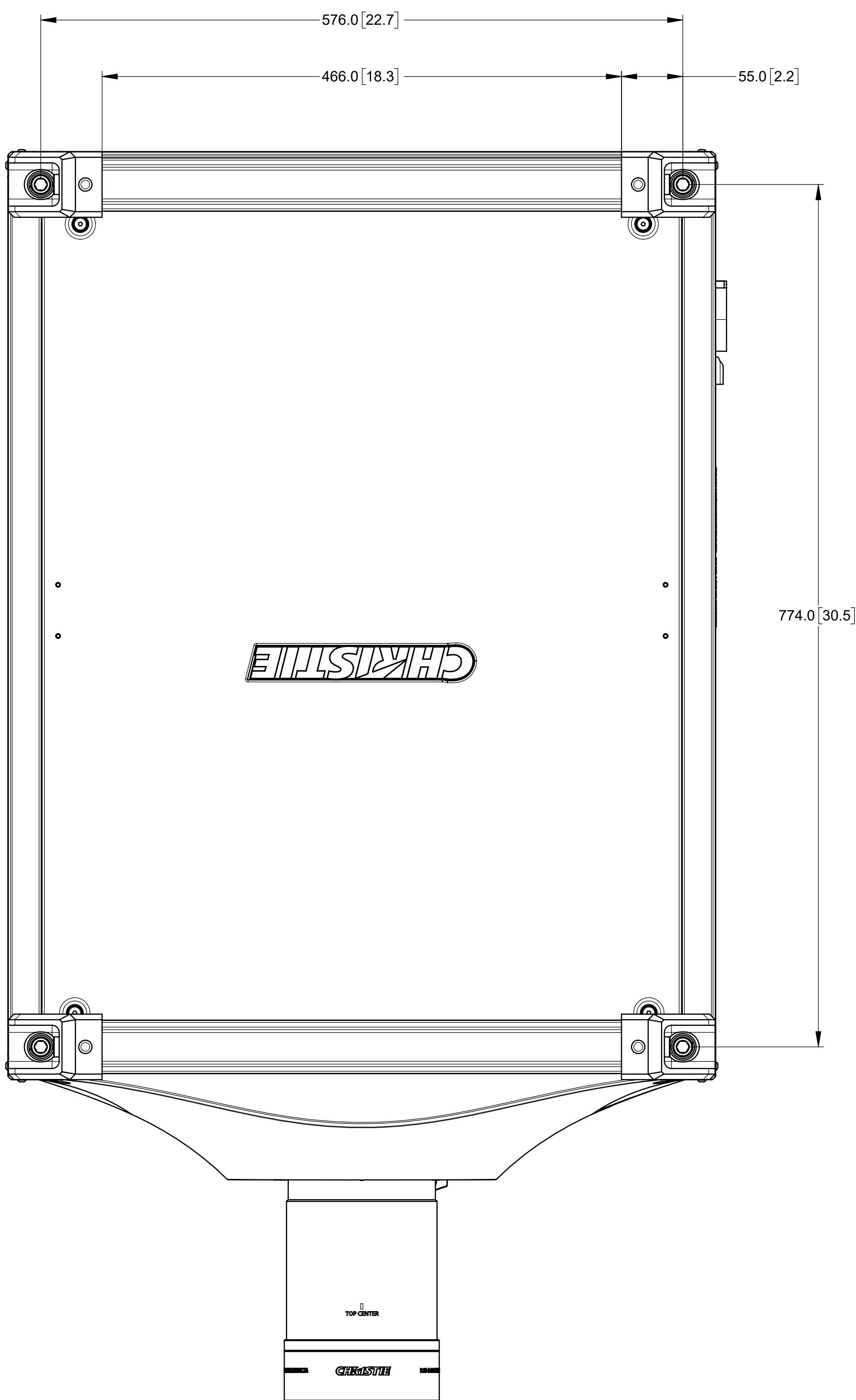
020-104043-01

01

ACCESSORIES

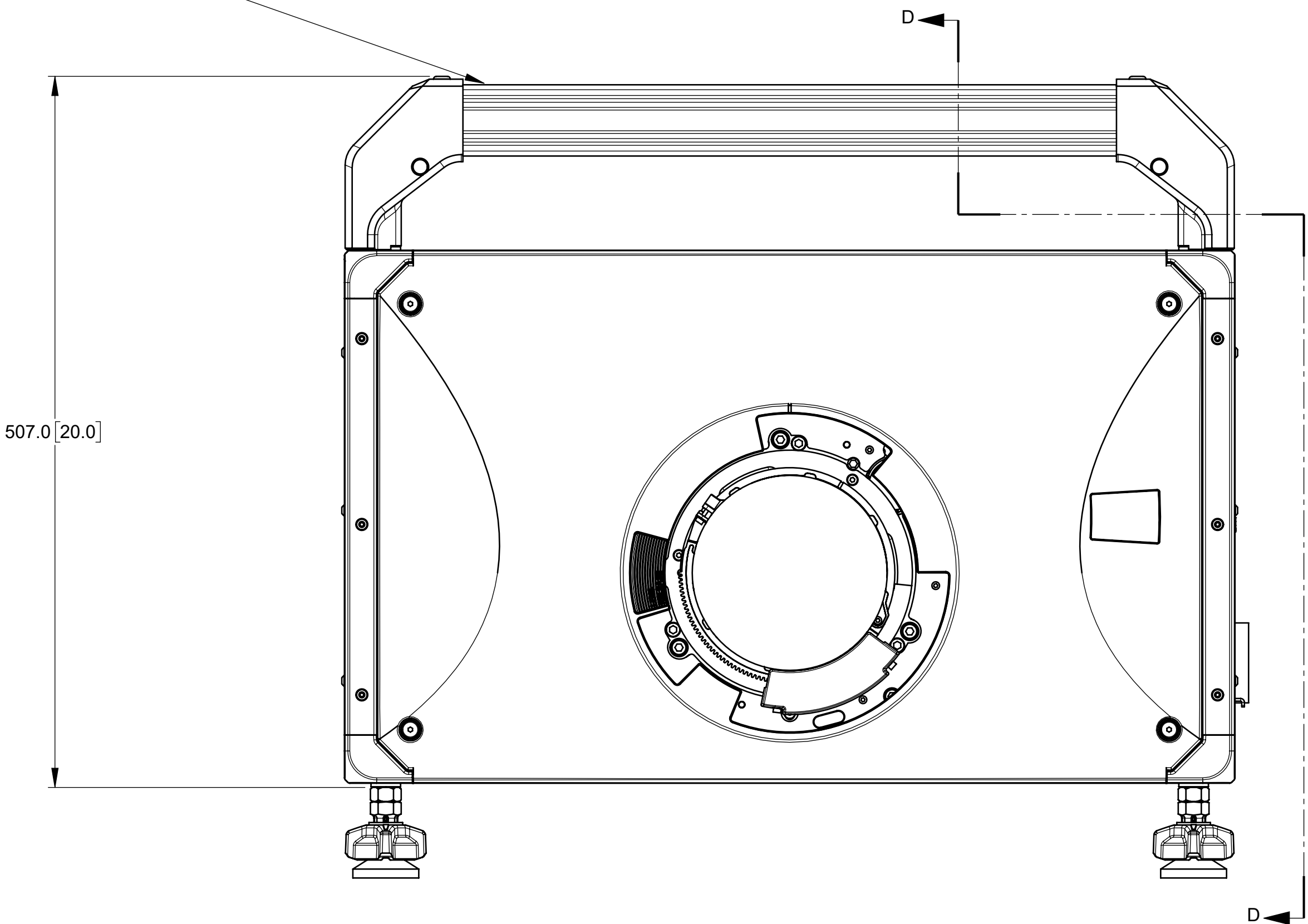


DETAIL E
SCALE 1 : 1

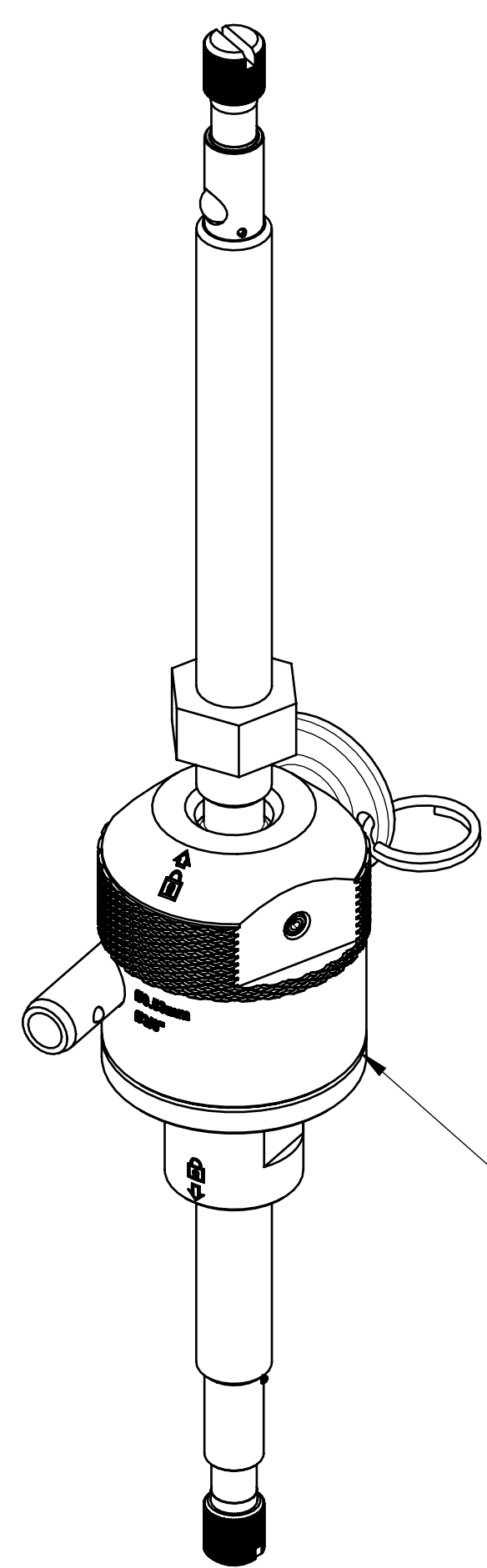


SECTION D-D

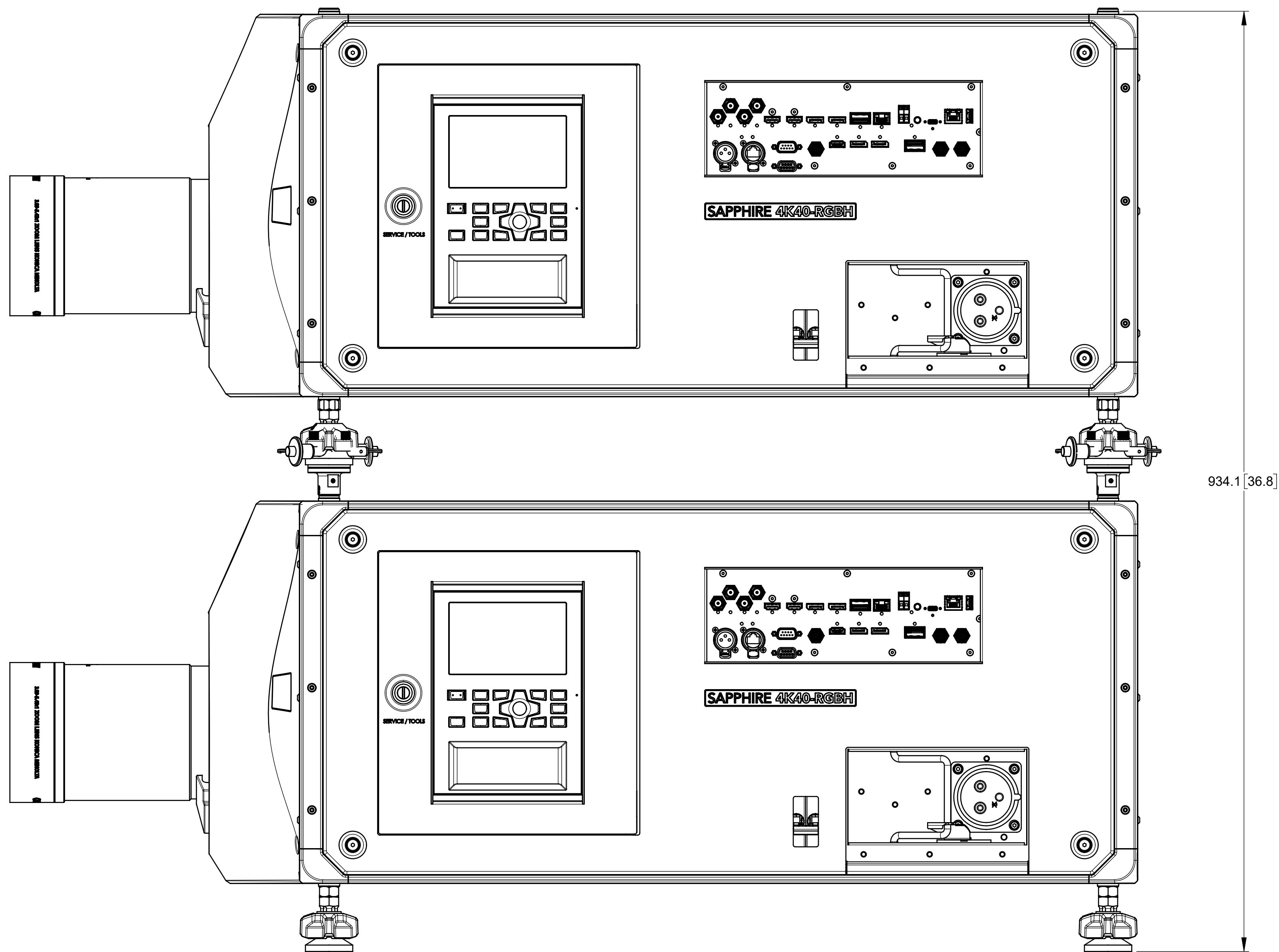
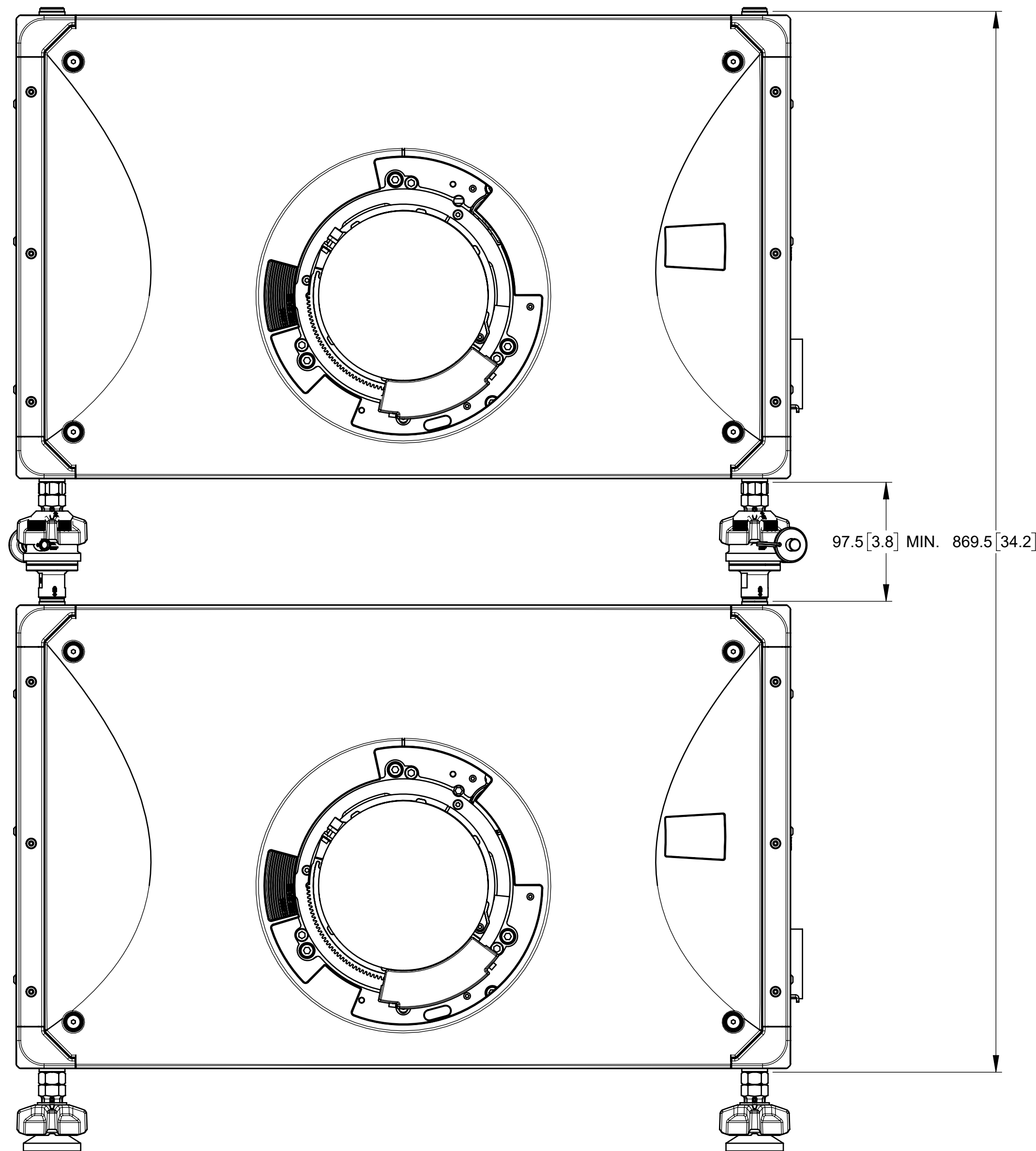
RIGGING HANDLE ACCESSORY
163-162100-XX
2X HANDLES SHIP SEPARATE COMPATIBLE WITH
SAPPHIRE 4K40-RGBH
RIGGING HANDLES WORK WITH STANDARD
2 INCH RIGGING CLAMPS
INSTALLATION INSTRUCTIONS RIGGING HANDLES
020-103110-XX



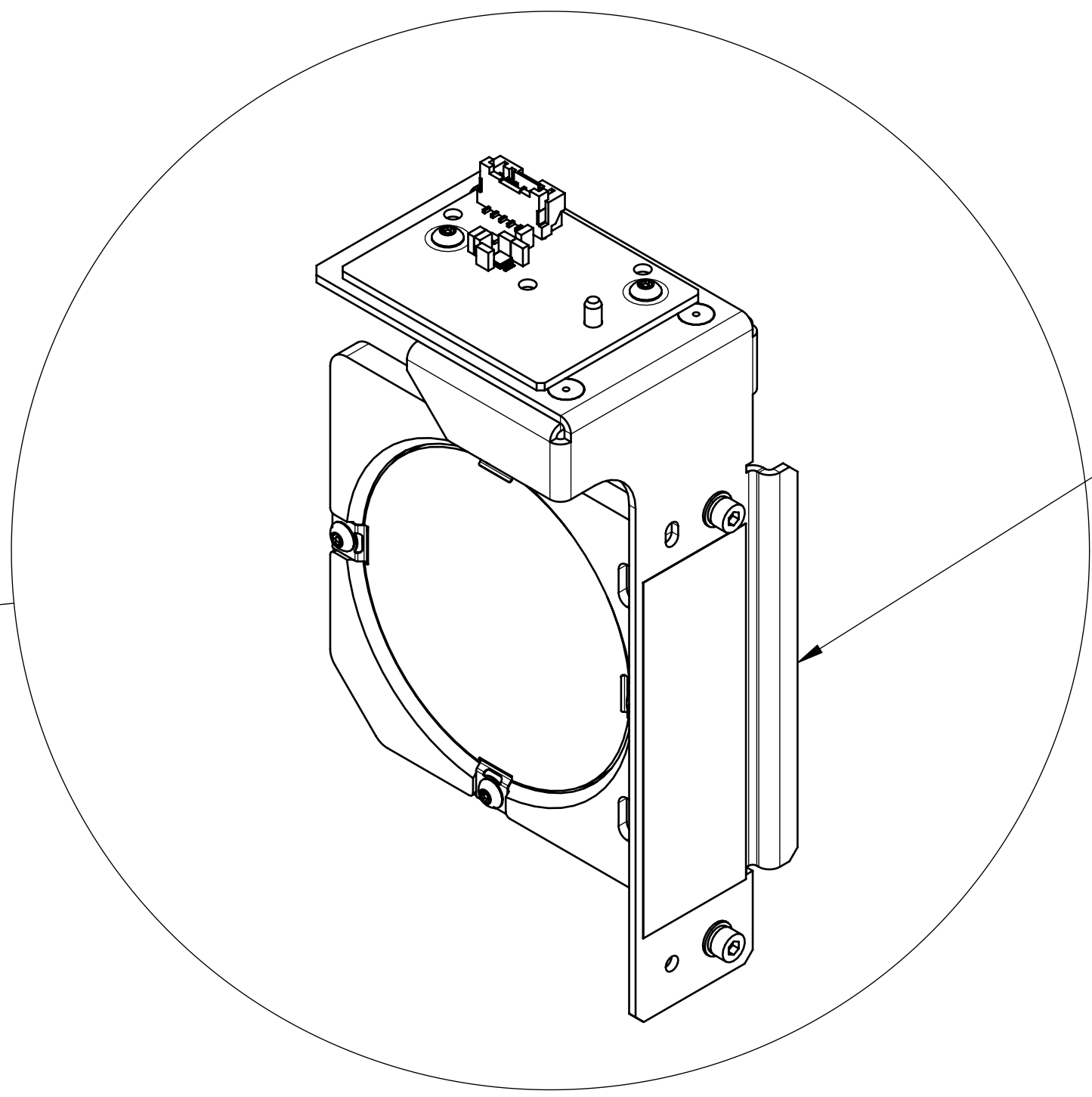
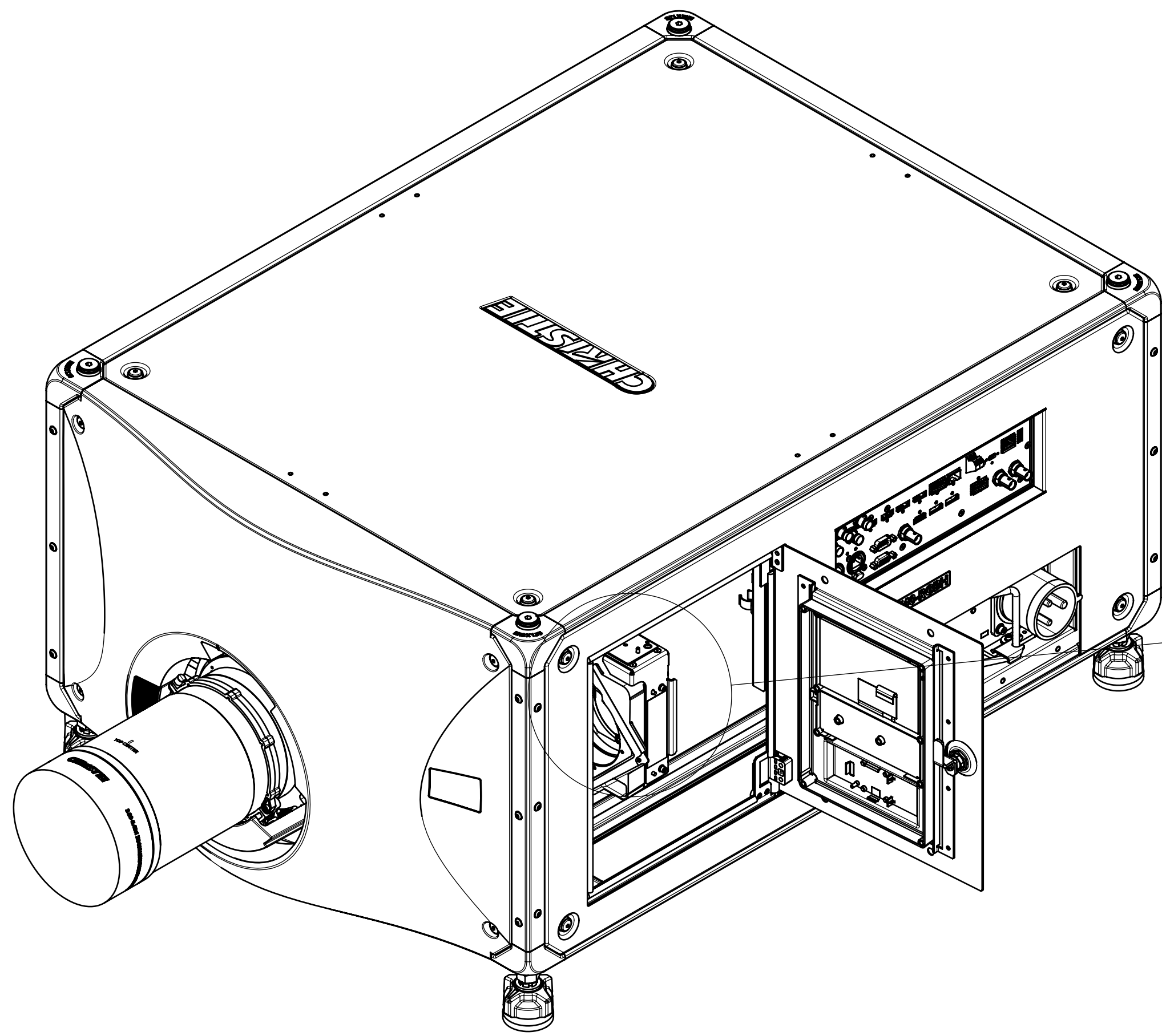
ACCESSORIES



RIGGING COUPLE ACCESSORY
163-128102-XX
4X RIGGING COUPLE SHIP SEPARATE COMPATIBLE WITH
SAPPHIRE 4K40-RGBH
INSTALLATION INSTRUCTIONS RIGGING COUPLINGS
020-103151-0-XX
COUPLING ACCOMMODATES FOR +/-3" MIN. PITCH AND ROLL



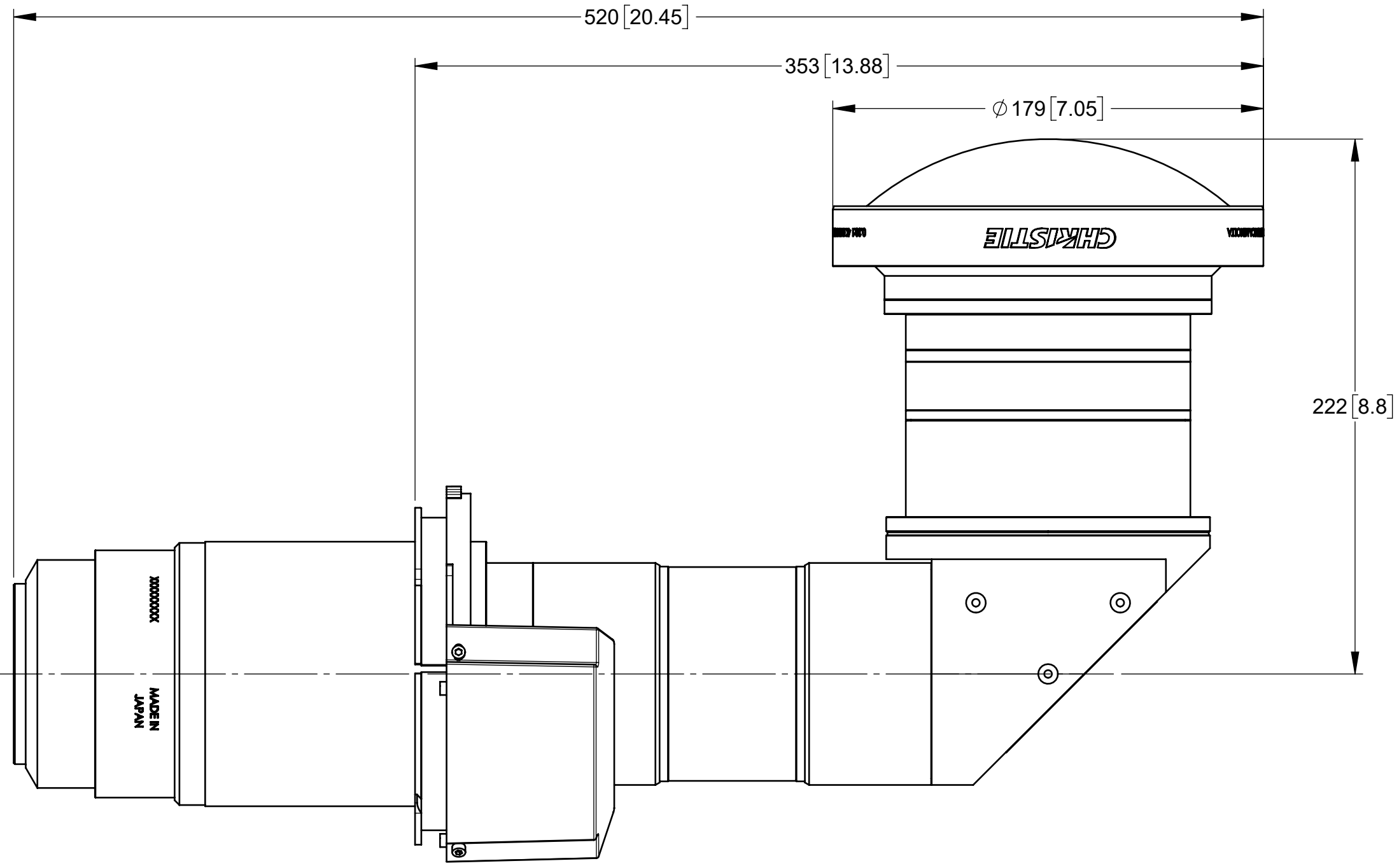
ACCESSORIES



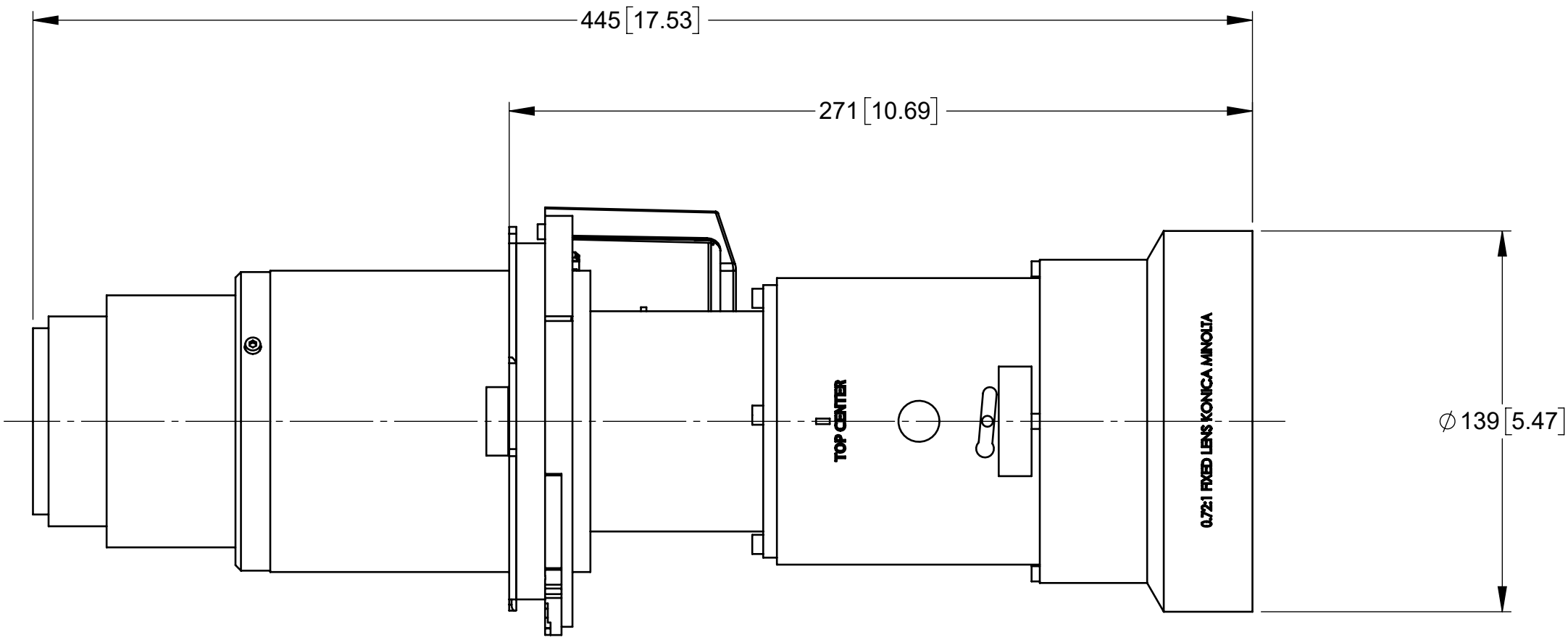
FILTER ACCESSORY
SEE FILTER SPECIFICATIONS FOR FILTERS COMPATIBLE WITH
SAPPHIRE 4K40-RGBH
FILTER INSTALLATION INSTRUCTIONS
020-104087-XX

DETAIL G
SCALE 1 : 1

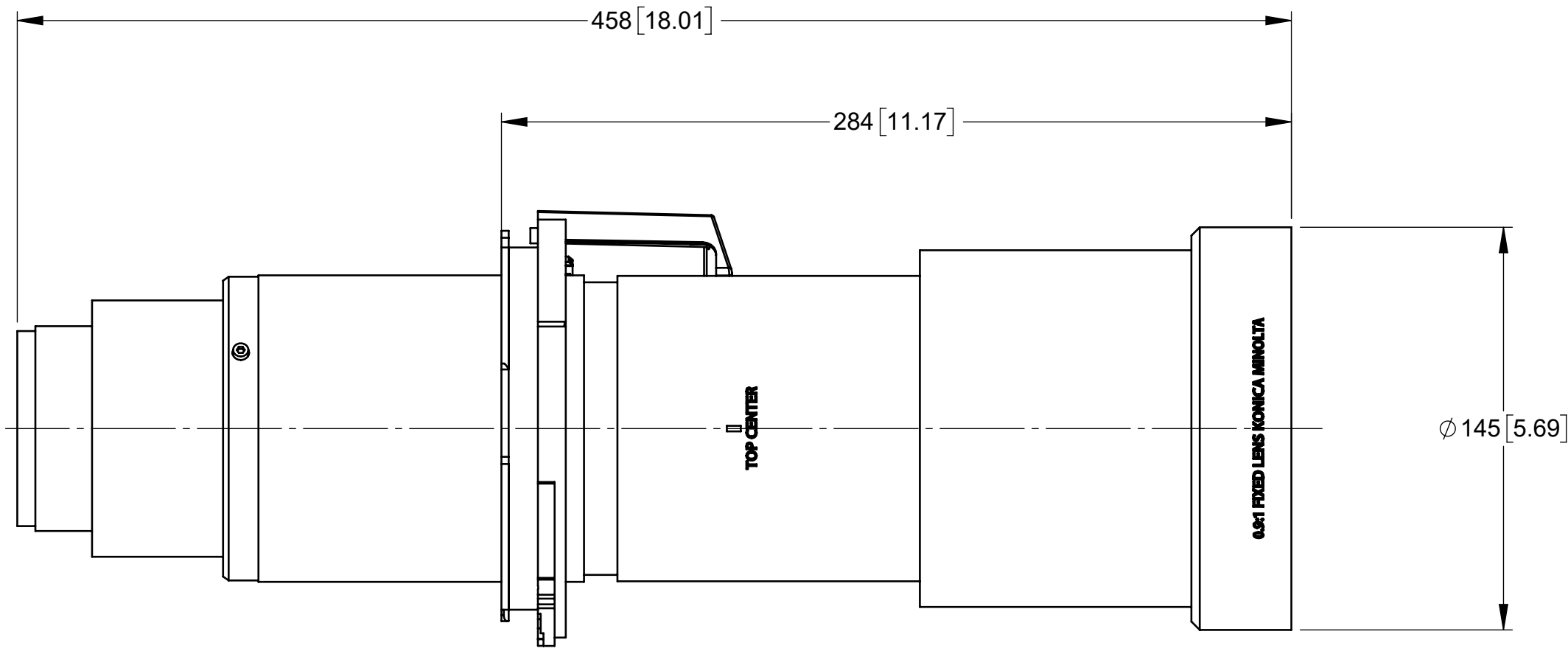
FILTER SPECIFICATIONS	
CDS PART NUMBER	DESCRIPTION
177-101103-XX	Left 3D Infitec 66mm IFH/SAP
177-102104-XX	Right 3D Infitec 66mm IFH/SAP
177-104106-XX	Aperture 66mm 2D- IFH/SAP



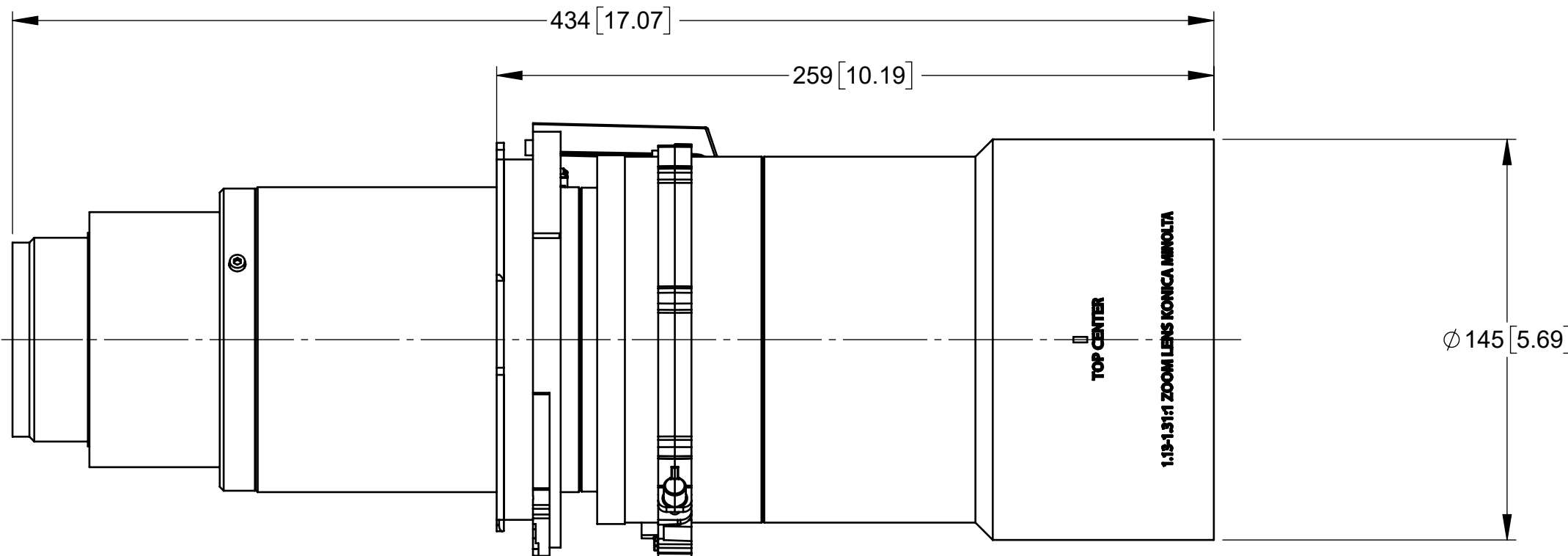
PROJECTION LENS
0.38:1 FIXED
HIGH BRIGHTNESS: 144-136101-XX



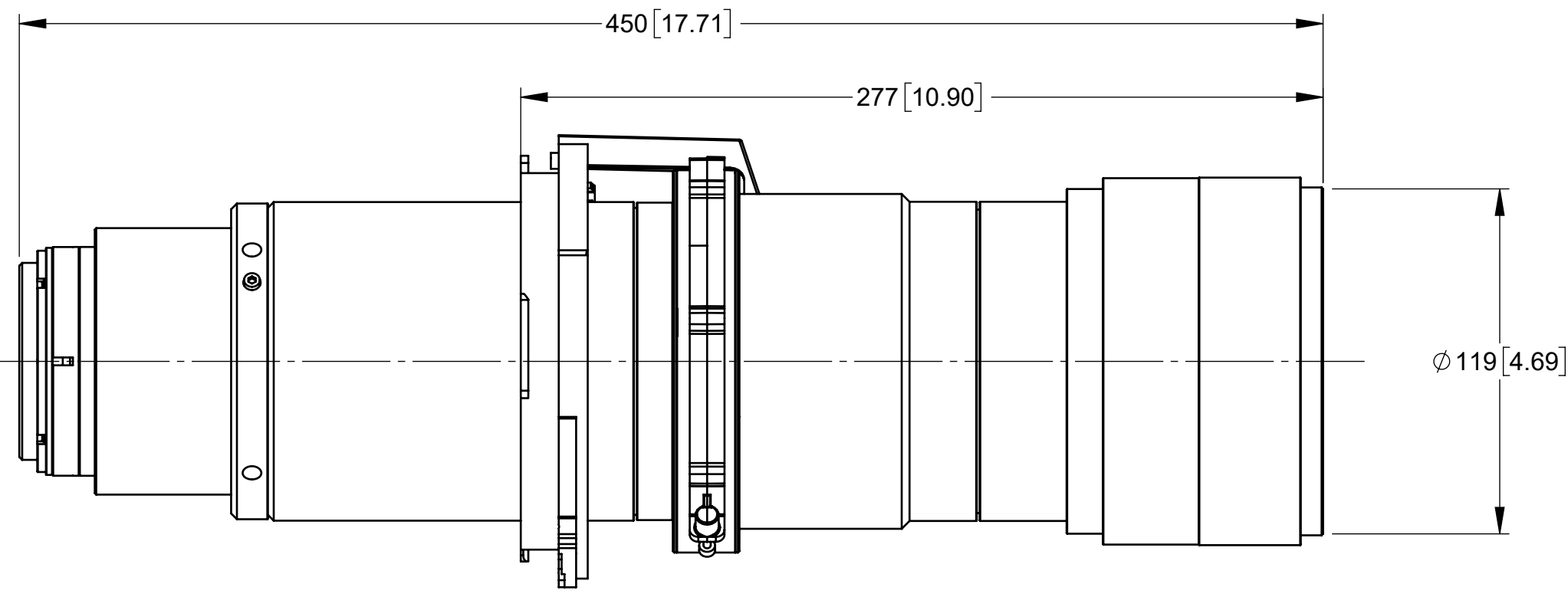
PROJECTION LENS
0.72:1 FIXED
HIGH BRIGHTNESS: 144-110103-XX
ULTRA HIGH CONTRAST: 163-116109-XX



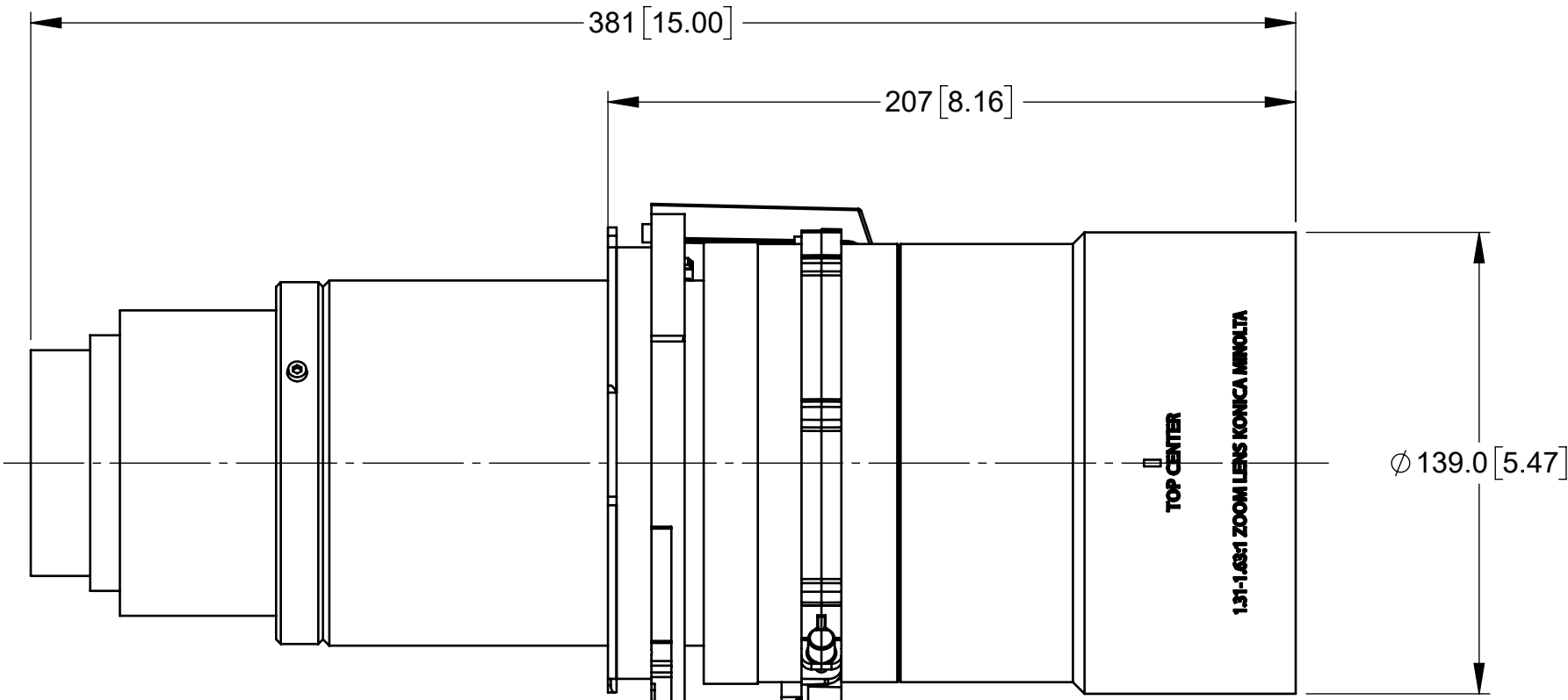
PROJECTION LENS
0.9:1 FIXED
HIGH BRIGHTNESS: 144-111014-XX
ULTRA HIGH CONTRAST: 163-117100-XX



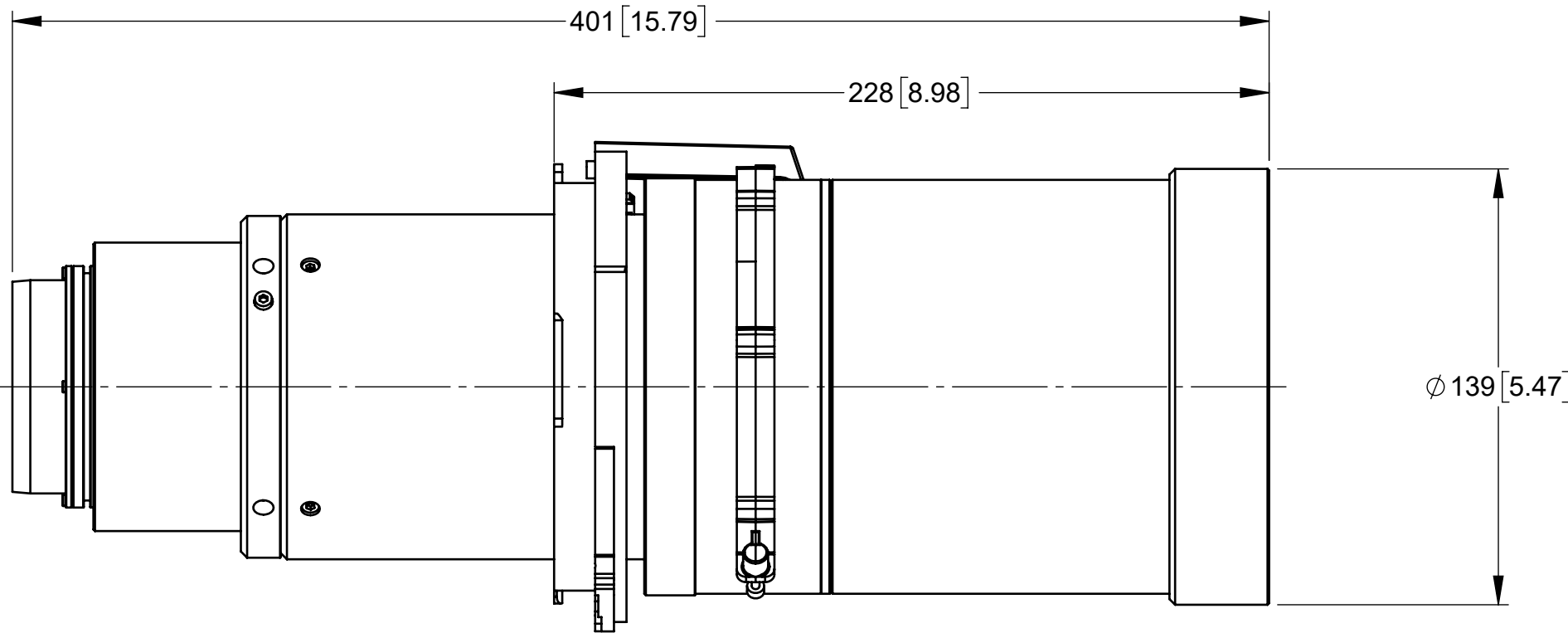
PROJECTION LENS
1.13:1.31:1 ZOOM
HIGH BRIGHTNESS: 144-103105-XX
DISCONTINUED



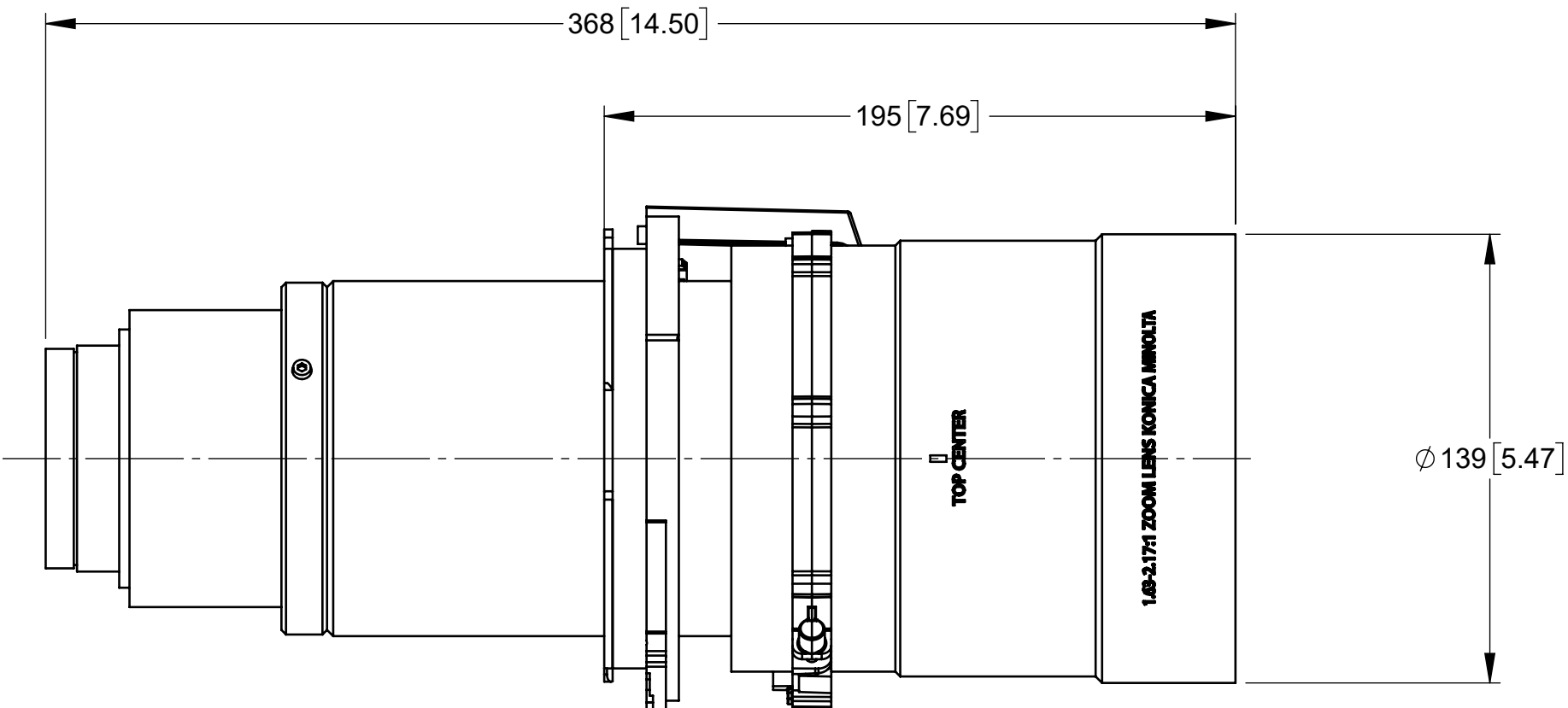
PROJECTION LENS
1.13:1.66:1 ZOOM
HIGH BRIGHTNESS: 144-129103-XX
ULTRA HIGH CONTRAST: 163-118101-XX



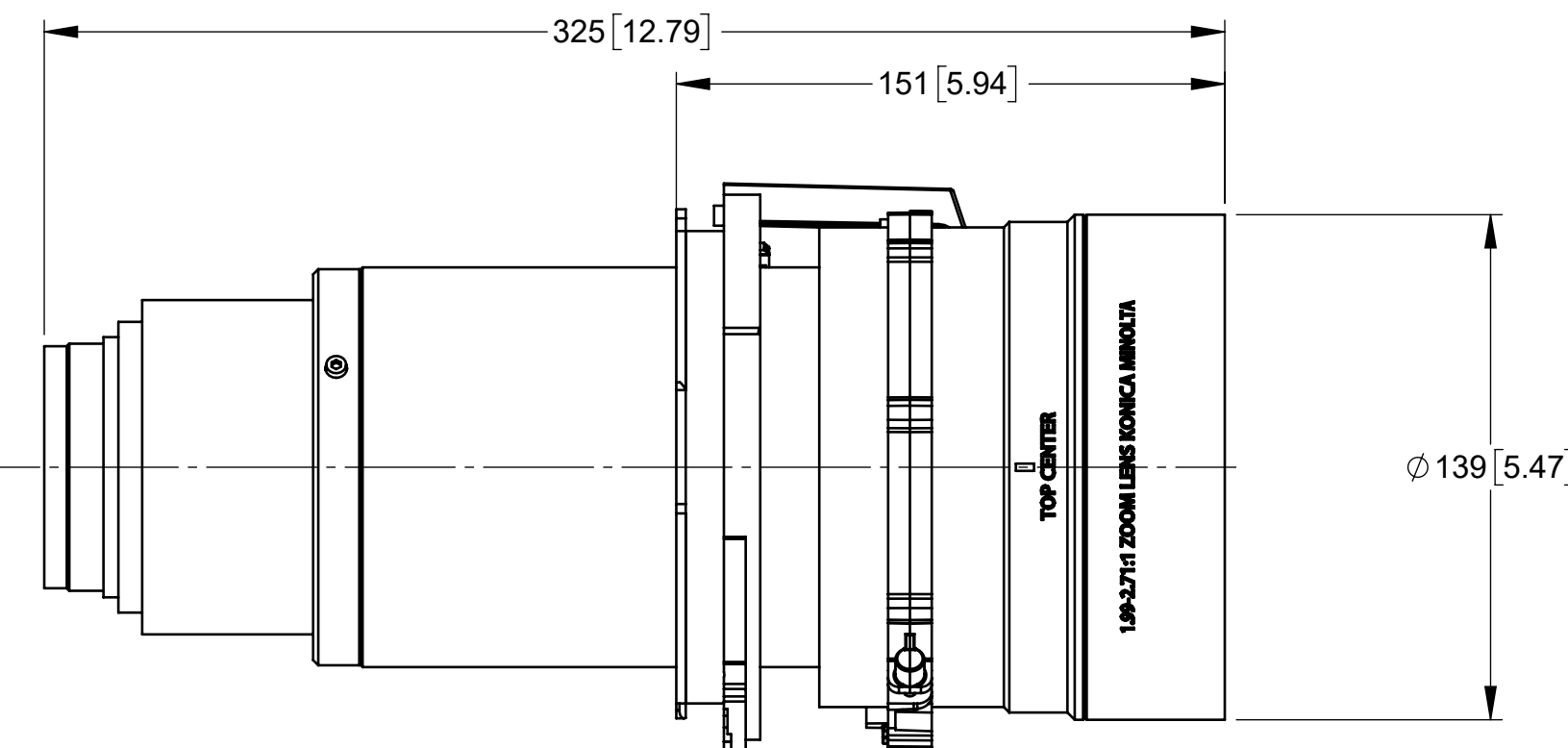
PROJECTION LENS
1.31:1.63:1 ZOOM
HIGH BRIGHTNESS: 144-104106-XX
DISCONTINUED



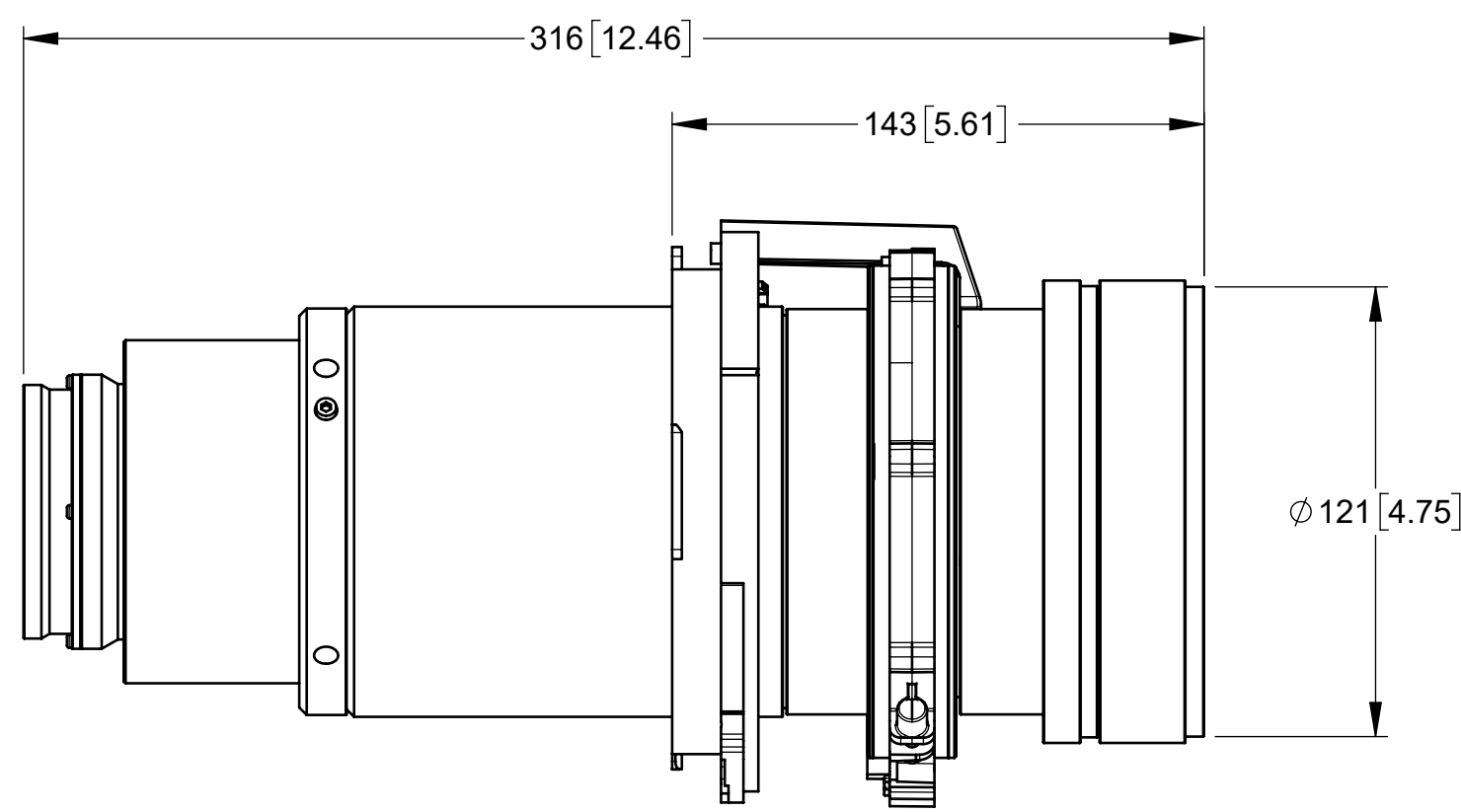
PROJECTION LENS
1.45:2.17:1 ZOOM
HIGH BRIGHTNESS: 144-130105-XX
ULTRA HIGH CONTRAST: 163-119102-XX



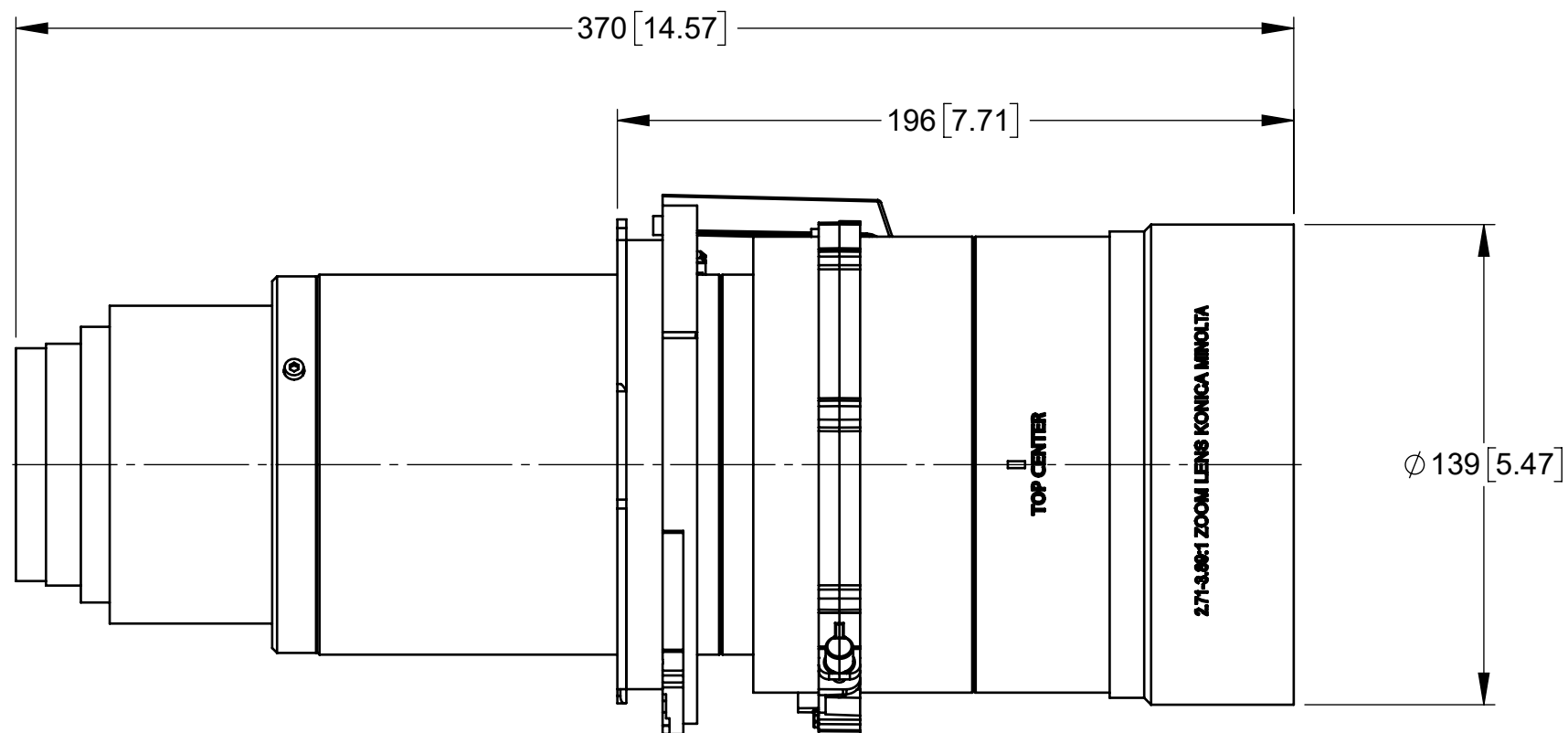
PROJECTION LENS
1.63:2.17:1 ZOOM
HIGH BRIGHTNESS: 144-105107-XX
DISCONTINUED



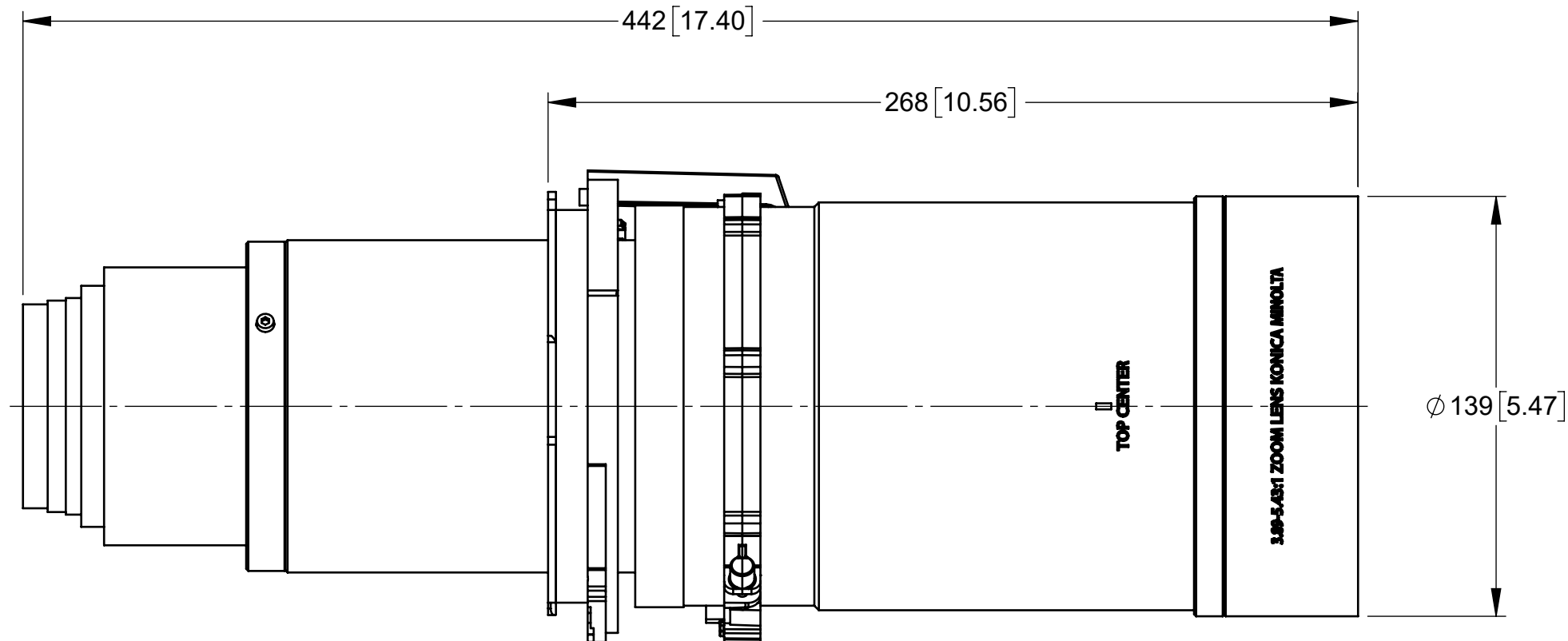
PROJECTION LENS
1.99:2.71:1 ZOOM
HIGH BRIGHTNESS: 144-106108-XX
DISCONTINUED



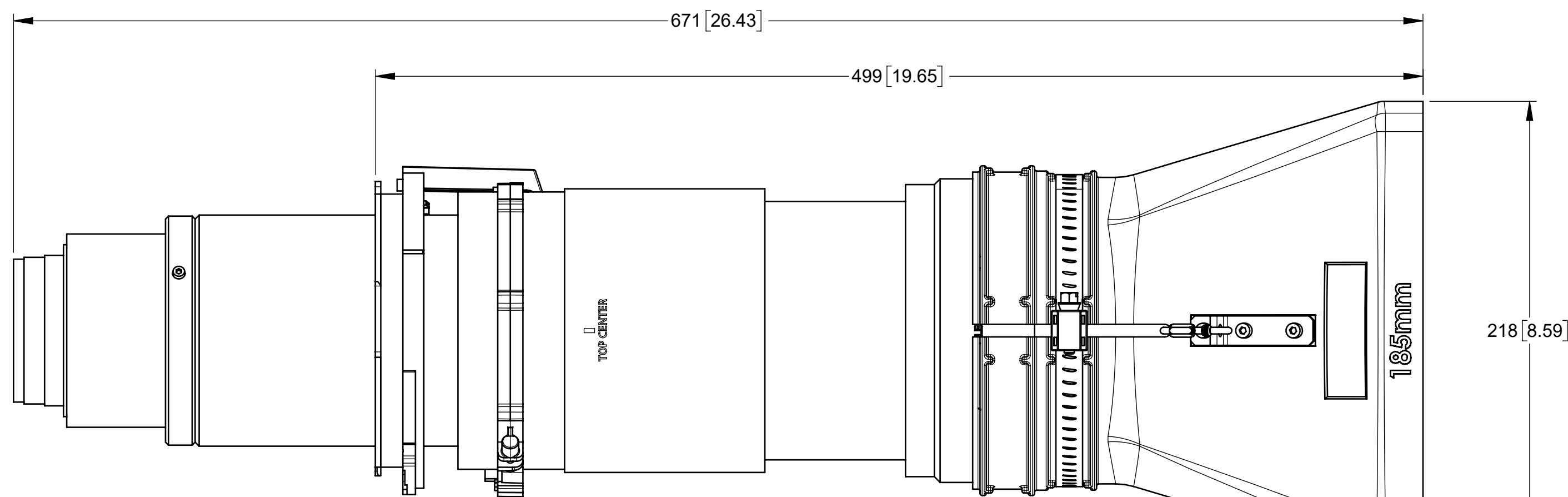
PROJECTION LENS
1.95:3.26:1 ZOOM
HIGH BRIGHTNESS: 144-131106-XX
ULTRA HIGH CONTRAST: 163-120103-XX



PROJECTION LENS
2.71:3.89:1 ZOOM
HIGH BRIGHTNESS: 144-107109-XX
ULTRA HIGH CONTRAST: 163-121105-XX



PROJECTION LENS
3.89:5.43:1 ZOOM
HIGH BRIGHTNESS: 144-108100-XX
ULTRA HIGH CONTRAST: 163-122106-XX



PROJECTION LENS
4.98:7.69:1 ZOOM
HIGH BRIGHTNESS: 144-109101-XX
LENS HOOD EXTENSION REQUIRED: 163-168106-XX

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DATE PART NUMBER

SCALE 1:2

MASS

- LBS [KG]

SHEET 9 OF 9

020-104043-01

01