

PH3501QL / PH2601QL

World's Brightest RB Laser models

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Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

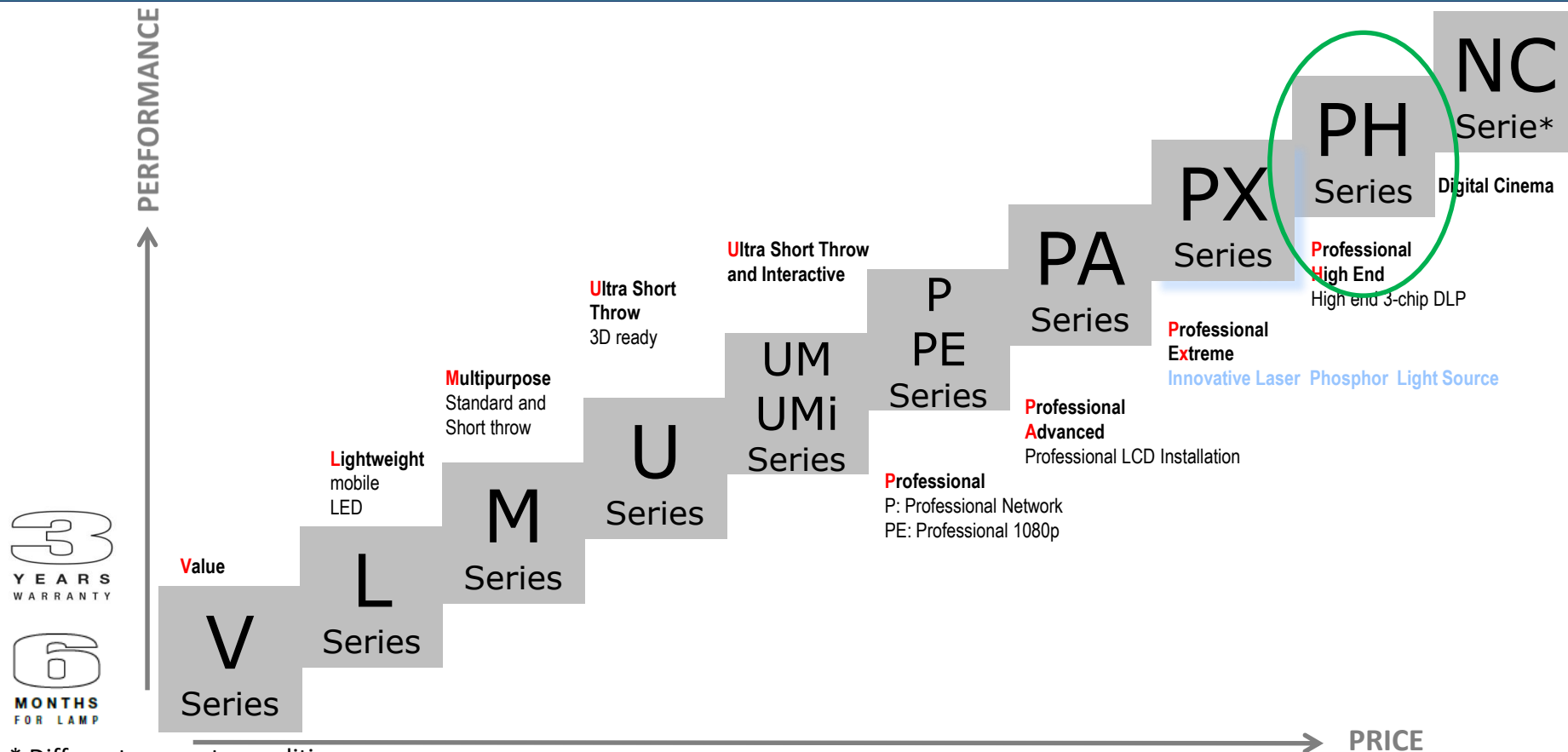
We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

Positioning



Projector Positioning



3 YEARS WARRANTY

6 MONTHS FOR LAMP

* Different warranty conditions

Brightest RB Laser Large Venue Projector



Highest Brightness by Chiller-Free RB Laser light source

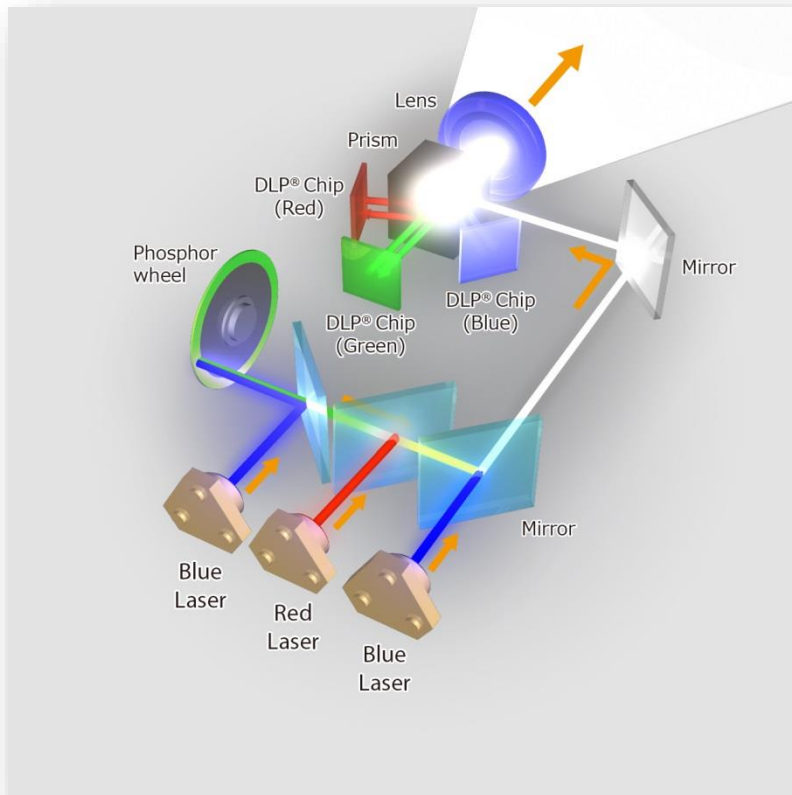
- 40.000 center lm - World's brightest RB Laser Projector
- Excellent colour reproduction by additional Red Laser Source
- Excellent Colour Space – Wider than Digital Cinema P3 Colour space
- 4K at wide Lens Shift – Up to 50% vertical Lens Shift!
- Low TCO: No lamp cost, low power consumption
- High Durability and Reliability by NEC Super-Dustprotection
- Absolutely Chiller-free – One-Box solution
- 20.000h almost maintenance-free operation
 - No lamp replacement
 - Metal filters



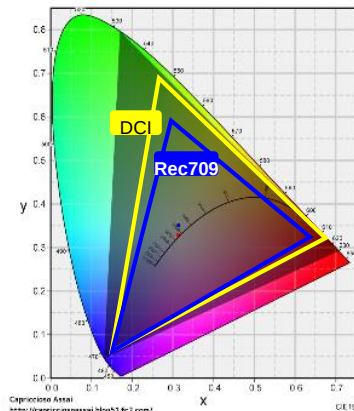
Special Features

- Flexible Brightness Adjustment from 30% to 100%
- Flexible Gamma correction : 0.1 step correction (γ 1.0-3.0)
- Color temperature correction : 500K step correction (3,500K-10,500K)
- Less Latency Signal Mode
- Excellent signal processing up to 12bit, 4:4:4
- Built-In Colour Calibration
- Mechanical Light Shutter – DMD Protection against Show Laser
- Tilt free / Portrait Installation
- Geometric correction / Edge Blending functionality
- Easy maintenance – Easy service
 - Metal filter (No filter options required)
 - Modularized internal parts

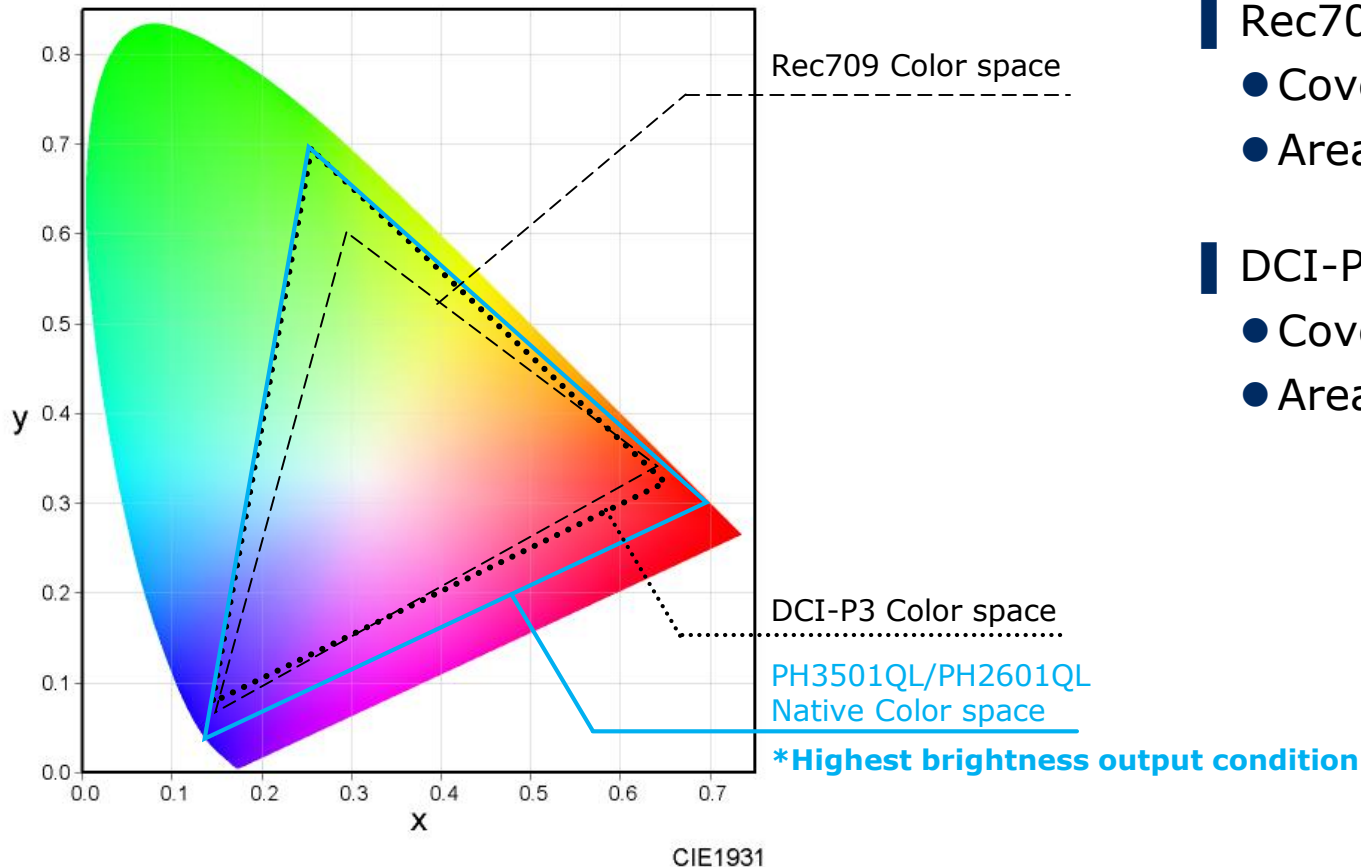
New RB Laser Technology – How does it work?



- Red and Blue Colour produced by True Laser Light
- Only Green coming from Phosphor Wheel
- Wide Colour Space – Much more than Rec709
- No need for sacrificing brightness by colour filtering
- Result: Much more Brightness output at wider Colour Gamut (wider than Digital Cinema P3)



Wide Colour Gamut



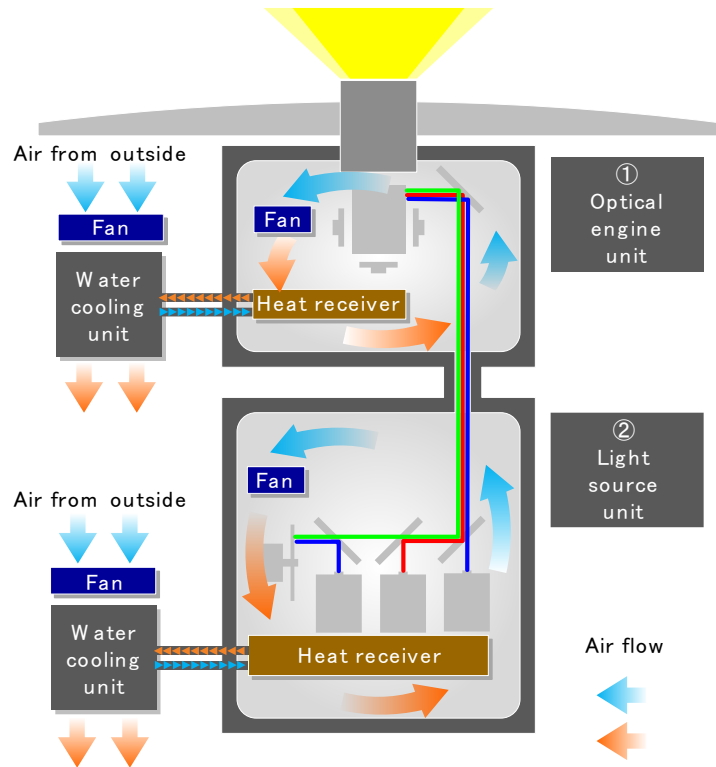
Rec709 Color Space

- Cover ratio : 100 %
- Area ratio : 146%

DCI-P3 Color space

- Cover ratio : 100%
- Area ratio : 115%

Perfect Dust Protection by NEC's cooling technology



- Independent unique circulation cooling with entire dust protection
- Internal liquid cooling system
 - Optical Engine area
 - Light Source area

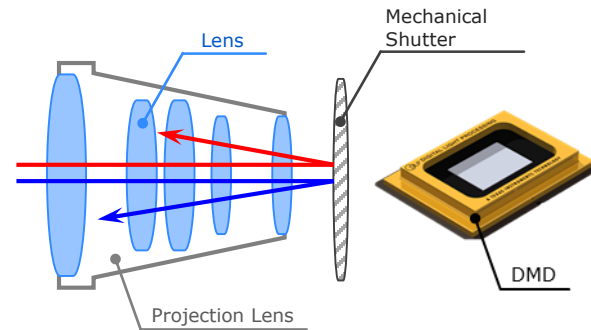
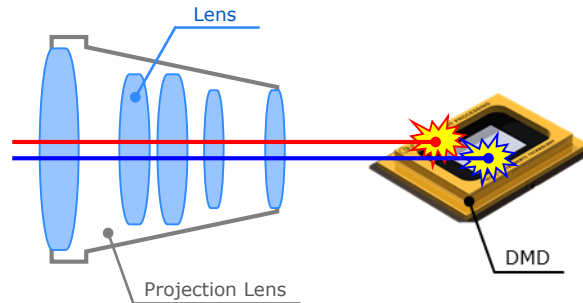
Basic specifications

	PH3501QL	PH2601QL
Resolution	Native 4K (4096x2160)	
Brightness : ANSI lm	35.000	26.000
Brightness : Center lm	40.000	30.000
Contrast Ratio	30.000:1	
Light Source Life : h (typ)	20.000	
Option Lens	7 Lens Options	
Lens shift	Up to +/-55%V, +/-22%H	
Noise (NOR/ECO) : dB	55/53	
HDBaseT	1	
3G SDI	4	
HDMI	2	
Display Port	2	
RJ45	1	
Power Consumption:W	4885	3886
Dimensions W x H x D : mm	697 x 455 x 1180	
Weight : kg	169	

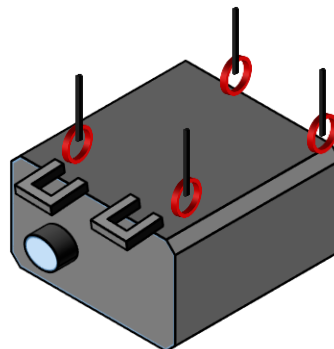
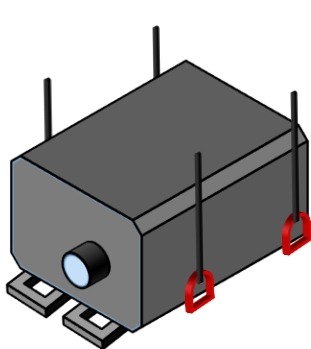


Additional Features

Mechanical Shutter is protecting DMD and Optical Parts

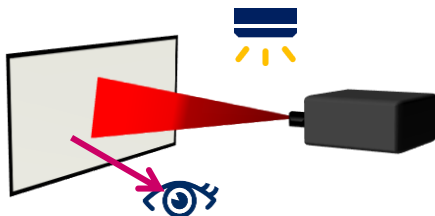


Easy Lifting by attachable Eyebolts

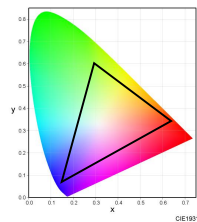


Unique! - PH3501QL Colour Calibration

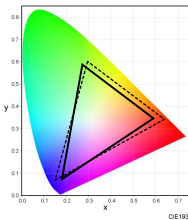
➤ In general ...



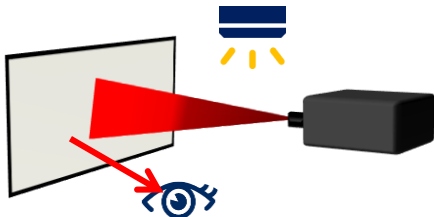
Projector Output
Color space
Rec709=100%



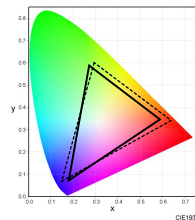
Actual Color space
in Audience level
Rec709=??



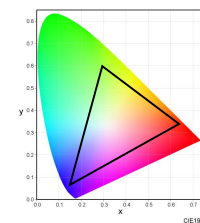
➤ PH3501QL...



MCGD



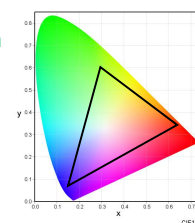
TCGD
Rec709



Correction



Actual Color space
in Audience level
Rec709=100%



4K – Supported signals

Resolution	Frame Rate (Hz)	Dot Clock (MHz)	Color format (RGB/YCbCr/YUV)	Bit depth	DisplayPort (HDCP 1.3)	HDMI (HDCP 2.2/1.4)	Quad SDI	HDBaseT (HDCP 2.2/1.4)
3840 x 2160 4096 x 2160	60	594	4:4:4	12bit	○*	○*	-	-
				10bit	○*	○*	-	-
				8bit	○	○	-	-
			4:2:2	12bit	○	○	-	-
				10bit	○	○	○	-
				8bit	○	○	-	-
			4:2:0	12bit	○	○	-	-
				10bit	○	○	-	-
				8bit	○	○	-	○
3840 x 2160 4096 x 2160	30	297	4:4:4	12bit	○	○	○	○
				10bit	○	○	○	○
				8bit	○	○	-	○
			4:2:2	12bit	○	○	○	○
				10bit	○	○	○	○
				8bit	○	○	-	○
			4:2:0	12bit	○	○	-	○
				10bit	○	○	-	○
				8bit	○	○	-	○

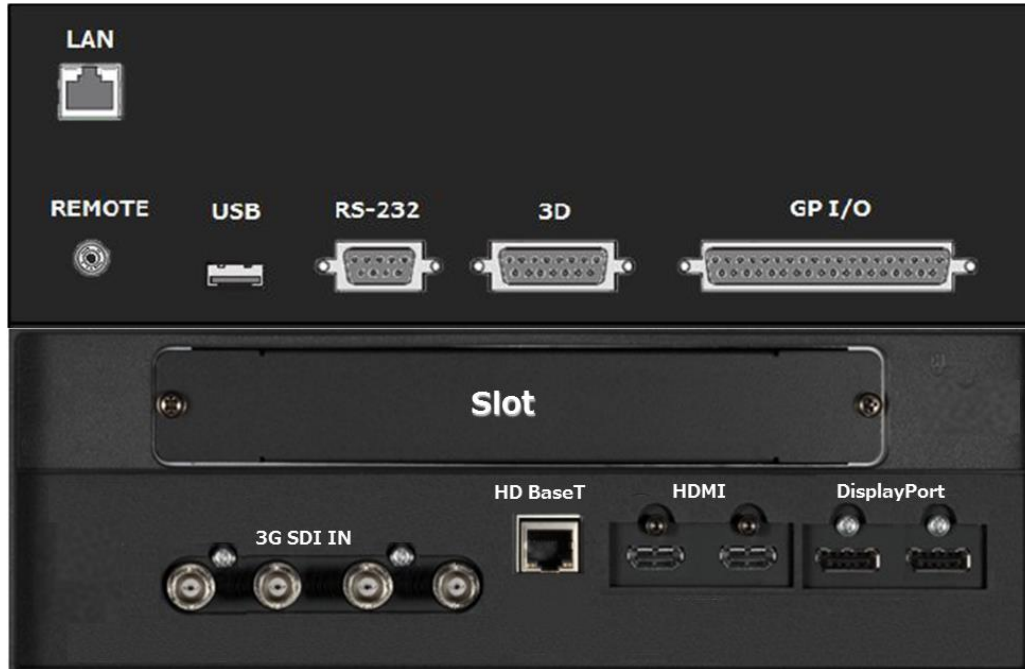
*: Support with Dual Link

Lens Options

Lens Option	TR	Zoom	Lens shift (V)			Lens shift (H)		
L2K-10F1	0.9	Fixed	-34%	-	34%	-12%	-	12%
L4K-11ZM	1.24 - 1.72	1.4	-55%	-	55%	-22%	-	22%
L4K-15ZM	1.52 - 2.1	1.4	-55%	-	55%	-22%	-	22%
L4K-20ZM	1.98 - 3.4	1.7	-55%	-	55%	-22%	-	22%
L2K-30ZM	2.7 - 3.9	1.4	-34%	-	34%	-12%	-	12%
L2K-43ZM1	3.7 - 5.3	1.4	-34%	-	34%	-12%	-	12%
L2K-55ZM1	4.8 - 7.4	1.5	-34%	-	34%	-12%	-	12%



Interfaces

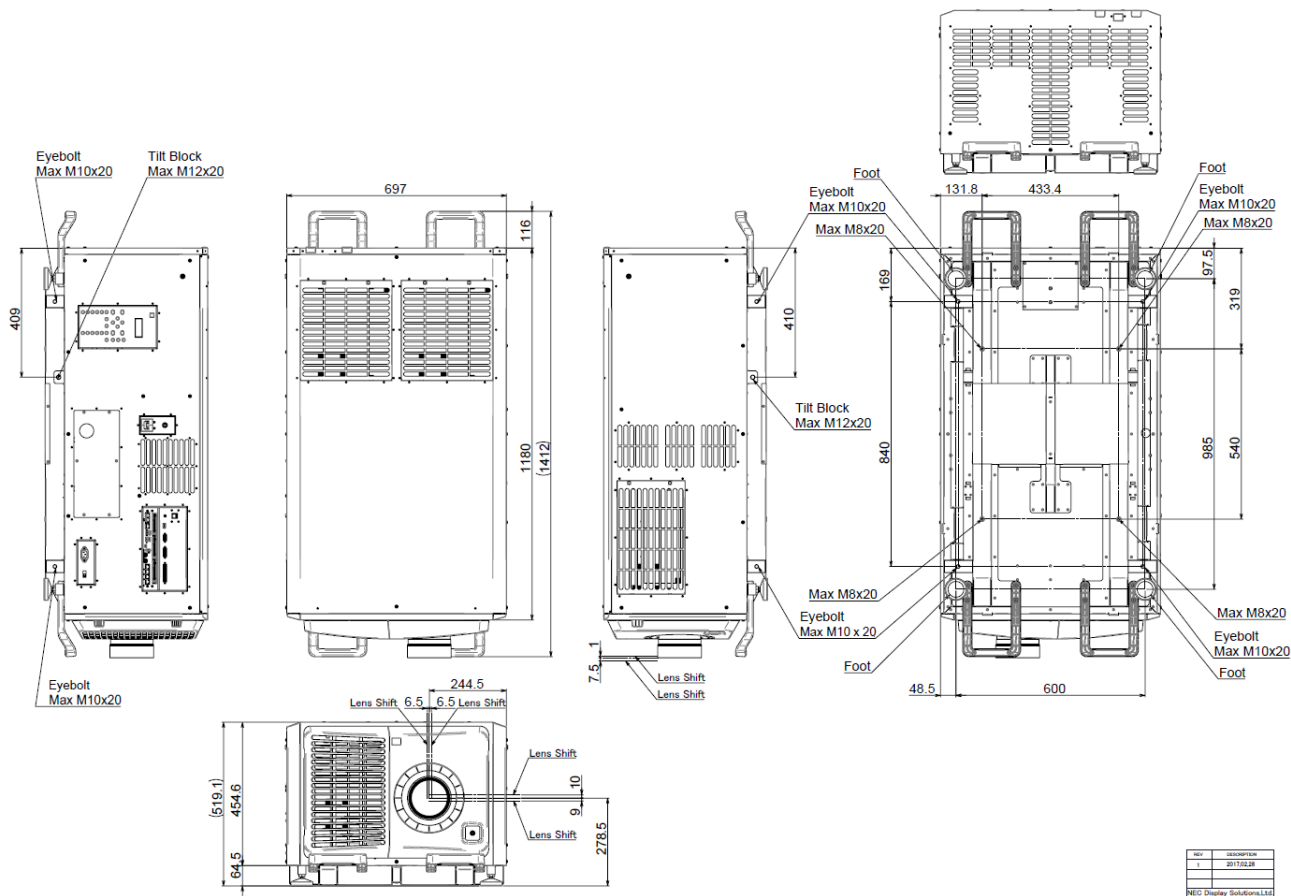


- 2 x HDMI
- 2 x Display Port
- 4 x 3G SDI
- HDBaseT
- OPS Slot
- RS232 Control
- RJ45 Control
- Wired Remote

Design



Drawing



REV	DESCRIPTION
1	2017/02/28

NEC Display Solutions

 **Orchestrating** a brighter world

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