

MODEL SPECIFIC OPERATIONAL MANUAL



KVANT 600 PRESTIGE BEAM

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INTRODUCTION

Thank you for purchasing this KVANT product.

To ensure proper operation, please read this manual carefully before using the product.
After reading it, keep it in a safe place for future reference.

SAFETY & WARNINGS



Before a projector's installation, power-on, operation and maintenance, please carefully read the safety information hereinafter!

Warning



- When unpacking, check if there is transportation damage before using a projector. Should there be any damage caused by transportation, consult your dealer and do not use it.
- The manufacturer is not responsible for any loss caused by the user not following the manual or changing a projector as he/she likes.
- Please be noted that the damage caused by changing a projector at will is not warranted.
- Do not hesitate to contact the dealer or the manufacturer if any questions or advice.
- If a lamp is damaged or deforms because of heat, it should be replaced.(It applies only to traditional lamps)
- There are safety cord holes at the bottom of the base of a projector. In view of safety, please run the safety cord supplied through the safety cord holes for safety support.
- Before any installation, maintenance and cleaning work, please ensure a projector is disconnected from power mains.



User Manual



- The projector is for indoor and outdoor use, IP66.
- It can be used in humid and dusty areas. And it can contact water and other non-corrosive liquids.
- The projector should be kept away from high temperature, fire, electrical surge, vibration and strong light while being operated
- The projector is only intended for installation, operation and maintenance by qualified personnel. And the operation must strictly follow the procedures in the manual
- No repairable parts in the projector and do not open covers for maintenance by yourself.

Goggles



- Don't look straight into the light sources especially for epileptics, otherwise eyes will be burned.
- Do not connect a projector to any type of dimmer pack.
- If the lamp, lens and screen protective cover of the a projector have obvious damage, i.e., to the extent that it hurts the performance like cracking or deformation. Please stop using it and replace them with the original parts, otherwise its performance will be compromised.
- For the installation location of a projector, it shouldn't be seen in the distance of less than 4 meters for a long time.

Protective gloves



- Before operation, please confirm that all covers (housing) are on and screws tightened. It's forbidden to use a projector while covers (housing) are off.
- Keep the lamp clean and do not touch it with bare hands.
- While operating it, wear protective items like eye goggles, gloves and etc..

Electrical shock



- Any electrical connection must be carried out by a qualified person.
- Before installation, please confirm the voltage supplied matches what is required for a projector.
- Each projector must be properly earthed and installed as per related electrical standards.
- Do not use power cord with its insulator damaged and connect the power cord with other cables.
- If a projector is not used or under cleaning, please hold the plug and unplug it. Do not unplug it forcefully or by pulling the power cable.
- All power cords must conform to related safety and regulations.
- If a projector is not water and dust proof, while being operated it should not be under rains or in humidity to avoid short circuit.
- Do not switch on and off a projector constantly in very short intervals, otherwise the light source's and other electrical parts' life will be shortened.

High temperature



- While running normally under normal ambient temperature, the temperature of the external surface of the metal housing of a projector including that of the heat sink may reach 75°C at maximum.
- While the lamp is stricken for the first time, there will be smoke and strange smell. It's normal and does not mean a projector has some defects.
- While it running, don't touch the metal housing to avoid being burned!

Flames



- Do not mount a projector directly on inflammable surface.
- Do not project the beam straightly on combustible items and the minimum distance between a projector and illuminated items is 18m.
- A projector should be installed with good ventilation and the minimum distance between a projector and a wall is 50cm. At the same time, please ensure the fans and air inlets and outlets are workable.
- Do not let the front lens under sunlight or other strong light sources at any angle, otherwise the danger of fire can be caused by the focused beam by the lens inside a projector.

Compliance and Disposal Guidelines



- The product meets The General Technical Requirements and Standards for Recycle and Use Of Expired Appliance and Electronic Products.
- When the product meets disposal standards and needs to be disposed, a client needs to dispose and recycle it.

INSTRUCTIONS

Cleaning and Maintenance

Under normal running, the protective units of a projector should be inspected regularly like power fuse. If it is burned, please install a new one and ensure it is the same rating as the burned one. For a projector with an over-temperature protective unit, please inspect cooling units regularly like cooling fans, heat sink and other cooling parts. Please check if the fans run normally or fans and air inlets are blocked by dust. To keep air inlets /outlets clean, cooling fans should be cleaned every 15days.

For projectors with lens, reflectors and coated filters, the accumulation of oil, smoke and dust on them will compromise the light output. Cleaning a projector is very necessary to ensure a reliable use. Internal and external lens, flat glass, reflector and coated filters need to be cleaned periodically to optimize light output.

Cleaning frequency is to be decided by operations and its environment. Use soft cloth and normal detergent for glass for cleaning work. It's advised external optical system be cleaned every 20days and internal optical systems every 30/60days. For a projector with high IP rating, if no damage inside, it is advised to clean the surfaces of its housing in principle. Keep lens clean and do not touch optical parts with bare hands.



It's normal phenomena that there will be mild water mist on the lens while the waterproof product is in use.

- Before any maintenance and cleaning, please ensure a project is off the power.
- Only a qualified person is allowed to do maintenance.
- To avoid sunlight or other light penetrating into the head via the front lens, resulting in high temperature internally causing damages to a projector. Before power-off, please use Tilt channel to move the head and make the head facing downward.
- Do not use alcohol or other organic solvent to clean the housing to avoid damage.
- Do not use any solvent with chemical elements to clean coated filters.

Lubrication

To ensure smooth movement of gobos and zoom and focus lens, it's advised rotators' bearings and 2 sliding bars for zoom and focus lens be lubricated every 2 months. High quality and high temperature lubricant/grease is advised.

Troubleshooting

Problem: A projector doesn't switch on.

Action: Check the fuse on the power socket. Check the lamp.

Problem: The lamp is on but a projector doesn't respond to the controller.

Action: Make sure that the fixture's start address is right. Replace or repair the XLR signal cable.

Problem: A projector functions intermittently.

Action: Make sure the fan is working well or fans and their shields are not blocked.

Problem: Beam appears dim, Low in brightness.

Action: Make sure the lamp is within its lifespan. Remove dust or grease from the lenses.

Problem: The project image appears to have a halo.

Action: Carefully clean the lamp, optical lenses and other components.

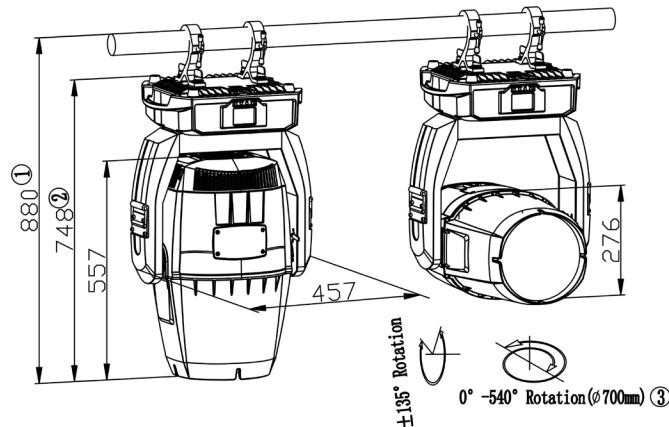
Problem: Heavily Defective Beam.

Action: Check if lens are in good condition(not cracked). Clean dust or grease on the lens.

INSTALLATION

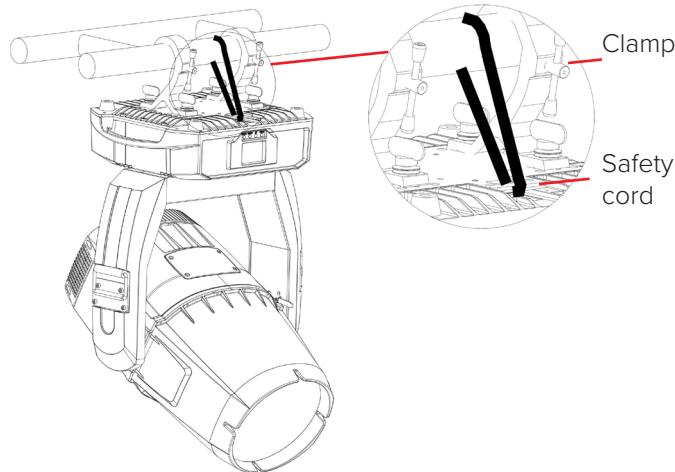
Rigging

Before moving a projector, Please lock Pan and Tilt. Before its operation, please unlock them. It's forbidden to run a projector with power while it is locked.



Remarks:

1. The distance between the top of the mounting bar and the top of the head;
2. The Distance between the top of the feet and the top the head;
3. The head's rotating diameter (the minimum distance between 2 neighboring projectors on the truss).



For safety, please run the safety cord through its hole.

Take 2 clamps and the safety cord out from the package and mount 2 clamps on the underside of fixture with 2 retainers attached to each clamp. Hang the fixture on the structure and fasten the screws attached to each clamp. (See the WARNING on the underside of the base as shown above). **Pass the SAFETY CORD through the HOLES for safety!** Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure that you are going to mount the projector to is secure and strong enough to support the weight of a XR 1000 Framing.



The projector MUST be lifted or carried by the HANDLES instead of clamps. For safety the safety cord should afford 10 times the Projector's weight.

Power connection

Connect the power cord as follows:

L (live) =brown
E (earth) =yellow/green
N (neutral) =blue

Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.



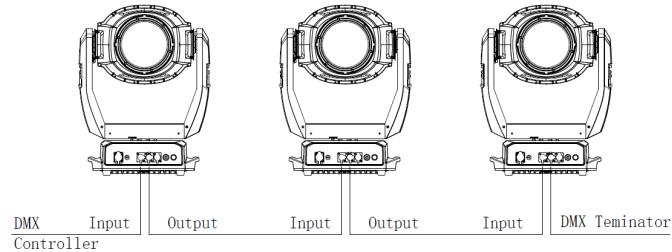
The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned. If any questions about the electrical installation, do not continue but consult a qualified electrician.

DMX control connection

Connection between controller and projector and between one projector and another must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the projector is via cannon 5 pin (which are included with the projector) or 5 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

i care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. XLR plugs and sockets mustn't be connected in any way other than mentioned in the above figure. The Fixture accepts digital control signals in protocol DMX512 (1990).

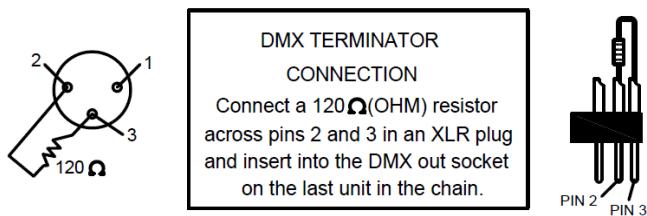
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



DMX terminator

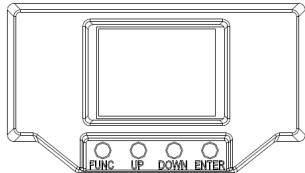
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



SETUP AND CONFIGURATION

Front panel operation



To browse through or change the projector's settings, press ENTER key for more than 3s(press ENTER key after power on) to unlock the screen, then press UP/DOWN key to enter the projector's function menus. Each main menu has its sub-menus. And each menu stands for special function. For the details, please see the following 6th point "Operation Menu":

1. At the page to set the fixture's functions, press UP or DOWN key to select the functions desired.
2. While menu operations, the FUNC key to escape, and ENTER key is used to confirm. Press ENTER key to save the changes or enter into the sub menus. Press UP or DOWN key to change the numbers(minus or plus).

Press FUNC key to go to the upper menu. If no key is pushed, the system will go back to initial status automatically.

DMX start address

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to "listen" to the digital control information being sent out from the controller. The device uses 2 DMX modes. For proper operation, the DMX mode must be selected on the switch: Standard Mode 17CH, Extend mode 18CH.

To control the brightness of the fixture, use the first 3 DMX addresses.

Switch on the Projector. Press ENTER key more than 3 seconds to unlock panel, then press UP or DOWN key to enter into the fixture's operation menus.

Select DMX Address icon and press ENTER key on the display and select DMX address at the 2nd level menu for the address setting.

Press UP or DOWN key for the DMX address desired.

Press ENTER key to confirm.

Press the FUNC key to go back to the upper level menu.

DMX protocol function

	Control
Strobe	R_Dimmer (0-100%) (000-255)
Dimmer	G_Dimmer (0-100%) (000-255)
Dimmer Fine	B_Dimmer (0-100%) (000-255)

Stand-alone mode

Operate the projector without connecting with a controller, enable the master mode through the operation panel, the projector will run in Stand-Alone mode automatically.

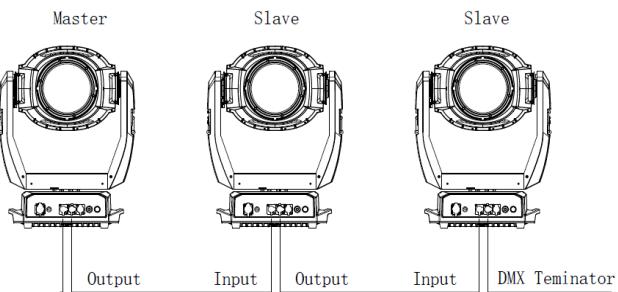
DMX address can be set at any number within 512.

Master/slave mode

Many projectors can run synchronously in the Master/Slave mode by linking them with each other. First, connect the first fixture's DMX output to the second fixture's DMX input using XLR-XLR control cable and then connect the second fixture's DMX output to the third fixture's DMX input, and so on until all projector are connected in this way. Eventually connect the last fixture's DMX output to a DMX terminator. Set 1st projector as the master and others are Slaves.

Start Addresses of all Slaves are 001; Operation mode of the Master can be set any mode for a Master' and Slaves' operation mode can be set accordingly.

After Powered on, the group will run in Master/Slave Mode



OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
Address	DMX Address	1-498(Short Mode) 1-496(Standard Mode) 1-495(Extend Mode)		
	IP Address	Default IP Address Custom IPAddress	2.X.X.X /10.X.X.X X.X.X.X	
	SubNet Mask	X.X.X.X		
	ArtNet ArtNet Universe	0-255		
	sACN Universe	1-63999		
Reset	Total Reset	Really Reset? Confirm or Cancel		
	Pan&Tilt Reset	Really Reset? Confirm or Cancel		
	Colour System Reset	Really Reset? Confirm or Cancel		
	Gobo Reset	Really Reset? Confirm or Cancel		
	Fo. Pr. Reset	Really Reset? Confirm or Cancel		
Config Settings	DMX Channel Mode	Standard Mode 17CH		
		Extended Mode 18CH		
		View Selected Mode	Ch.01 Strobe Ch.02 Dimmer ... Ch. XX control function	
	Signal Select (Only for fixtures with wireless control)	XLR Only		
		XLR First		
		Wireless Only		
		Wireless First		
		Wireless In/XLR Out		
		Artnet Only		
		Artnet In/XLR Out		
		sACN only		
		sACN/XLR		
	Loss of DMX	Normal time out		

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL	
Option Settings	Display Config	Hold Last Value			
		Display Mode	Off After Delay OnAlways		
		Display Invert	Invert OFF Invert ON Invert Auto		
		Language Setting	English\Chinese		
		Temperature Unit	Celsius Degree Fahrenheit Degree		
	Un-LinkWireless (Only for fixtures with wireless control)	Really Un-Link? Confirm or Cancel			
	Factory Defaults	Restore Defaults? Confirm or Cancel			
	Pan/Tilt Settings	Pan DMX Invert	OFF/ ON		
		Tilt DMX Invert	OFF/ ON		
		Pan Tilt Swap	OFF/ ON		
		XYFeedback	OFF/ ON		
		Pan/Tilt mode	Speed/Time	Note: "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds. "Time Mode" means both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines.	
	Dimmer Settings	Dimmer Speed	Fast/Medium/Slow Speed		
View DMX Values	View DMX Values	Channel	Value		
		Strobe	XXX		
		Dimmer	XXX		
		Dimmer Fine	XXX		
Display Config		Color Wheel	XXX		
		FixedGoboWheel	XXX		
		Prism 1	XXX		
		Prism 1 Rotation	XXX		
		Prism 2	XXX		
		Prism 2 Rotation	XXX		
		Focus	XXX		
		Pan	XXX		
		Tilt	XXX		
		ControlFunction	XXX		
Display Config	Lamp Hous=XXX H Reset Lamp Hours				
Total Hours	Total Hours xxxx H				

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
Information	Temperature	Display Board=xxxxC Panboard=xxxxC Tiltboard=xxxxC Motordriver board1=xxxxC Motordriver board2=xxxxC Light source driverboard =xxxxC Light source=xxxxC		
	Software Version	Display Board xxx xxx Panboard xxx xxx Tiltboard xxx xxx Motordriverboard xxx xxx Light source driver board xxx xxx		
	Electronic SN	XXXXXX		
	RDM Device Label	ANSI E1.20 RDM		
	Fan Status	Fan Speed RSpeed Base fan xxx on/off Lens fan xxx on/off Head fan xxx on/off Lightsourcefanxxx on/off		
	Lamp Fan Error	Base fan xxx Lens fan xxx Head fan xxx Lightsource fan xxx		
Service	Manual Effect Control	Channel Value Strobe XXX Dimmer XXX Color Wheel XXX FixedGobo Wheel XXX Prism1 XXX Prism 1 Rotation XXX Prism 2 XXX Prism 2 Rotation XXX Focus XXX Pan XXX Tilt XXX		
		Factory Mode XXX		
		Electronic SN Change Operation Mode? Confirm or Cancel		
Operation Mode	Master Mode	Preset Memory	Change Operation Mode? Confirm or Cancel	
		User Memory 1	Change Operation Mode? Confirm or Cancel	
		User Memory 2	Change Operation Mode? Confirm or Cancel	
	Stand-Alone Mode	Preset Memory	Change Operation Mode? Confirm or Cancel	
		User Memory 1	Change Operation Mode? Confirm or Cancel	
		User Memory 2	Change Operation Mode? Confirm or Cancel	
	Static Scene	Change Operation Mode? Confirm or Cancel		

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
User Memories	Edit User Memory	Edit User Memory 1/ Edit User Memory 2	(1~200Scenes) Scene XX (1~200 Scenes)	Strobe XXX Dimmer XXX ColorWheel XXX FixedGoboWheel XXX Rot.Gobo Wheel XXX Prism1 XXX Prism1 Rotation XXX Prism2 XXX Prism2Rotation XXX Focus XXX Pan XXX Tilt XXX Hold time XXX Delay Time XXX Delaytimeunit ms/s/m LinktoStep XXX
		Edit Static Scene	Paste? Confirm or Cancel	Strobe XXX Dimmer XXX ColorWheel XXX FixedGoboWheel XXX Rot.GoboWheel XXX Prism1 XXX Prism1Rotation XXX Prism2 XXX Prism2Rotation XXX Focus XXX Pan XXX Tilt XXX
		Reset User Memory 1	Reset User Memory? Confirm or Cancel	
	Init User Memory	Reset User Memory 2	Reset User Memory? Confirm or Cancel	
		Reset Static Scene	Reset Static Scene? Confirm or Cancel	

DMX PROTOCOL

Standard Mode S	Standard Mode S	Extended Mode E	FUNCTION	DMX	DESCRIPTION
1	1	1	Strobe	000 001-255	Close Strobe speed from slow to fast
2	2	2	Dimmer	000-255	Linear dimming (0-100%)
	3	3	Dimmer Fine	000-255	Dimmer in 16 bit
3	4	4	Red	000-255	Linear Red
	5	5	Red Fine	000-255	Red in 16 bit
4	6	6	Green	000-255	Linear Green
	7	7	Green Fine	000-255	Green in 16 bit
5	8	8	Blue	000-255	Linear Blue
	9	9	Blue Fine	000-255	Blue in 16 bit
6	10	10	Fixed Gobo Wheel	0-11	Gobo1
				12-15	Gobo2
				16-19	Gobo3
				20-23	Gobo4
				24-27	Gobo5
				28-31	Gobo6
				32-35	Gobo7
				36-39	Gobo8
				40-43	Gobo9
				44-47	Gobo10
				48-51	Gobo11
				52-55	Gobo12
				56-59	Gobo13
				60-63	Gobo14
				64-67	Gobo15
				68-71	Gobo16
				72-75	Gobo17
				76-79	Gobo18
				80-83	Gobo19
				84-87	Gobo20
				88-91	Gobo21
				92-95	Gobo22
				96-99	Gobo23
				100-103	Gobo24
				104-107	Gobo25
				108-111	Gobo26
				112-115	Gobo27
				116-119	Gobo28
				120-123	Gobo29
				124-127	Gobo30
				128-149	Clockwise rotation from slow to fast
				150-171	Anti Clockwise rotation from slow to fast

EN

Standard Mode S	Standard Mode S	Extended Mode E	FUNCTION	DMX	DESCRIPTION
6	10	10	Fixed Gobo Wheel	172-174	Shake effect 1 from slow to fast
				175-177	Shake effect 2 from slow to fast
				178-180	Shake effect 3 from slow to fast
				181-183	Shake effect 4 from slow to fast
				184-186	Shake effect 5 from slow to fast
				187-189	Shake effect 6 from slow to fast
				190-192	Shake effect 7 from slow to fast
				193-195	Shake effect 8 from slow to fast
				196-198	Shake effect 9 from slow to fast
				199-201	Shake effect 10 from slow to fast
				202-204	Shake effect 11 from slow to fast
				205-207	Shake effect 12 from slow to fast
				208-210	Shake effect 13 from slow to fast
				211-213	Shake effect 14 from slow to fast
				214-216	Shake effect 15 from slow to fast
				217-219	Shake effect 16 from slow to fast
				220-222	Shake effect 17 from slow to fast
				223-225	Shake effect 18 from slow to fast
				226-228	Shake effect 19 from slow to fast
				229-231	Shake effect 20 from slow to fast
				232-234	Shake effect 21 from slow to fast
				235-237	Shake effect 22 from slow to fast
				238-240	Shake effect 23 from slow to fast
				241-243	Shake effect 24 from slow to fast
				244-246	Shake effect 25 from slow to fast
				247-249	Shake effect 26 from slow to fast
				250-252	Shake effect 27 from slow to fast
				253-255	Shake effect 28 from slow to fast

Standard Mode S	Standard Mode S	Extended Mode E	FUNCTION	DMX	DESCRIPTION
7	11	11	Prism 1	000-016	Open
				017-127	Prism1
				128-255	Prism2
8	12	12	Prism 1 Rotation	000-127	Prism Indexing
				128	Stop
				129-191	Rotation (Clockwise from slow to fast)
				192	Open
				193-255	Rotation (Anti- Clockwise from slow to fast)
9	13	13	Prism 2	000-016	White
				017-127	Prism3
				128-255	Frost in
10	14	14	Prism 2 Rotation	000-127	Prism2 Indexing
				128	Stop
				129-191	Rotation (Clockwise from slow to fast)
				192	Open
				193-255	Rotation (Anti- Clockwise from slow to fast)
11	15	15	Focus	000-255	Linear focus
				000-255	Focus in 16 bit precision
12	16	17	Pan	000-255	Pan (0°~540°)
13	17	18	Pan Fine	000-255	Pan in 16 bit
14	18	19	Tilt	000-255	Tilt (0°~270°)
15	19	20	Tilt Fine	000-255	Tilt in 16 bit
16	20	21	Pan & Tilt Speeds	000-255	Pan & Tilt Speed from Fast to Slow
17	21	22	Control	000-019	Reserved
				Keep in the DMX range for more than 5S to activate the following functions. If power-off, the following are invalid.	
				020-024	Graphic Display On
				025-029	Graphic Display Off
				030-052	Reserved
				053-054	Diming speed fast
				055-056	Diming speed medium
				057-058	Diming speed slow
				059-089	Reserved
				090-094	Pan & Tilt Speed Mode
				095-099	Pan & Tilt Time Mode
				100-139	Reserved
				140-149	Pan & Tilt Reset
				150-159	Reserved
				160-169	Gobo Wheel Reset
				170-179	Dimmer/Shutter Reset
				180-189	Focus/Prism Reset
				190-199	Reserved
				200-209	Total Reset
				210-255	Reserved

Remarks:

1. Fan error can cause lamp-off.
2. Note: "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds."Time Mode" means both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines.

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ERROR MESSAGES

The system can detect some errors during the reset, if  displayed, touch  to view the error.

The error messages are as follows:

NAME	TYPE	CORRECTION
Pan	Timeout/magnet Sensor/Encoder	Check if wiring, positioning parts and motors are normal
Tilt	Timeout/magnet Sensor/Encoder	Check if wiring, positioning parts and motors are normal
Fixed gobo wheel	Timeout	Check if wiring, positioning parts and motors are normal
Dimmer	Timeout	Check if wiring, positioning parts and motors are normal
Prism	Timeout	Check if wiring, positioning parts and motors are normal
Prism Rotation	Timeout	Check if wiring, positioning parts and motors are normal
Focus	Timeout	Check if wiring, positioning parts and motors are normal
Fan	Error	Check if fan and its wiring are normal
Pan Board	Error	Check signal wire
Tilt Board	Error	Check signal wire
Motor Driver Board	Error	Check signal wire
Light source driver board		
Acceleration Sensor	Error	Check signal wire
Lamp on	Timeout	Check if the lamp is damaged
Lamp Life	Timeout Warning	
Lamp Off[Fan Error]	Error	Check if all fans are normal
Time IC	Error	



TECHNICAL SPECIFICATIONS

Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of the manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

TECHNICAL SPECIFICATION [KVANT 600 PRESTIGE BEAM]

Device Information

Model: Kvant 600 Prestige Beam
Country of origin: Slovakia (EU)
Warranty: 12 months standard (up to 5 years on request)

Electric Parameters

Input Voltage: 100V~240V AC, 50/60Hz
Max Power Consumption: 800 W @230VAC
Rated Current: 3.48A @ 230V
Typical Current Draw (at 230 V AC): 2,7A
Inrush Current (Peak): 3,9A
Power Factor: PF>0.9

Light Sources

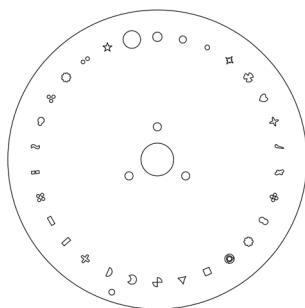
Light Source Type: Semiconductor laser diodes
Laser Light Sources: 600W laser
Rated life: 20 000 hrs
Input Voltage Range: 100 - 240V AC 50/60Hz
Light Output (Lumens): 34500lm
Source Life (L70): 20000h
Laser Class: Class 1
Laser Safety Certificate: RG3 IEC EN 62471-5:2015, CLASS 1 IEC EN 60825-1:2014

Colors

White Temperature: Tunable white
Color Mixing: Color change by RGB component mixing (not by absorbing filters)
Color Wheel: No (Color change by RGB component mixing (not by absorbing filters))
CTO / CTB Filters: No (Color change by RGB component mixing (not by absorbing filters))
UV / Special Colors: 16 milion colors
Color Modes & Control: Color change by RGB component mixing (not by absorbing filters)

Gobo Wheel

1 fixed gobo wheel: 30 gobos+ open
Shakable at variable speeds and bi-directional rotation at variable speeds.



Prism/Frost

3 prism wheels:	(a 8-facet circular prism+ a 4-facet linear prism) + (a 16-facet circular prism + a frost filter) Other prism options available.
Frost / Diffusion:	Yes (on Prism2 Wheel)

Focus

Focus:	DMX linear focus
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Strobe/Dimmer

Dimmer:	Yes (via DMX/ArtNet, other control options)
Linear dimmer:	16 bit
Strobe:	0.5 - 25 f.p.s.

Head Movements

Pan Range:	0°-540°
Tilt Range:	0°-270°
Pan/Tilt Resolution:	16bit
Pan/Tilt Speed:	8bit (speed/time mode)

Beam Angle

Beam Angle / Zoom Range:	0.15 - 1.6°
Lens Diameter:	220mm

Control

Power Connections:	Neutrick power input connector, 5-pin XRL IN/OUT, RJ45 Ethernet
Follow-Spot Mode:	Yes
Local User Interface:	Yes (from the front panel)
Standalone Control:	Yes
RDM & Remote Management:	Yes
Operational Monitoring System:	RDM/Artnet, sACN
Firmware Update Method:	COM online, USB online, USB offline

Other Functions

Positioning & Calibration:	Auto positioning correction/Calibration function
Anti-Shake Stabilization:	No

Housing and Ingress Protection

Body Composition:	Cast aluminium and high temperature UV resistant ABS with IP66
Body Finish:	Powder coating (Color up to request)
Cooling System:	Air cooled heat-pipe heat-sink
Cooling System Maintenance Interval:	3 months or as needed
Battery For Menu/Settings:	No
Mounting & Rigging:	Yes (G clamps or custom brackets)
Environmental Protection:	IP66
Salt Spray Testing:	on request
Certifications:	pending (EMC/LVD)
Sun Protection:	Cast aluminium and high temperature UV resistant ABS + powder coating
Recommended Maintenance Interval:	60/90days, as needed
Future Maintenance Alert System:	RDM

Weight

Weight (Fixture Only):	38 kg
Weight (With Mounting Bracket):	38+

Ambient Temperature

Operating Temperature:

-20 °C ~ 45 °C

If a fixture runs with the ambient temperature below 0 Celsius, it should be heated for some time (less than 20 minutes based on actual conditions) before turning on the laser module.

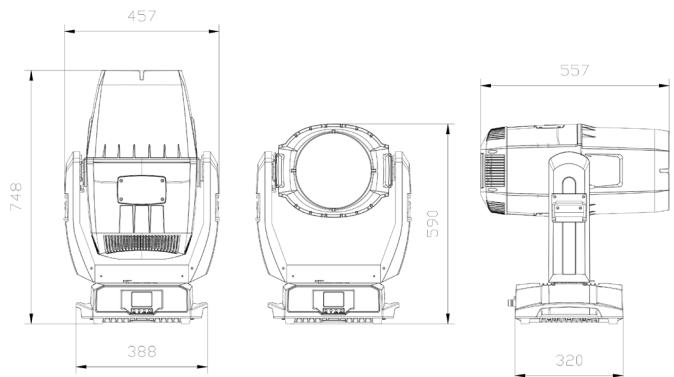
Sizes

Dimensions (W x D x H):

457x 557x 748mm (overall)

Special Features

Color change by RGB component mixing (not by absorbing filters), Colors 16 milion, gobo wheel, prisms, dimmer/strobe function, DMX linear focus, pan and tilt speeds adjustable. Modular construction easy for maintenance.



CONTACT INFORMATION



Address:

Kvant Lasers s.r.o.
Odborárska 23
831 02 Bratislava
Slovakia, Europe

e-mail: info@kvant.sk

Telephone: 00421-2-654 113 55

Technical support contact:

e-mail: micek@kvant.sk

Telephone: +421 918 339 980

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