

## 1. Introduction & Features



To all residents of the European Union

Important environmental information about this product



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialised company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for buying the **VDP2000A9**! If it was damaged in transit, don't install or use it and contact your dealer. The **VDP2000A9** should come with a power cable, an XLR connection cable and this manual.

Its features are:

- pan 530°/tilt 285°
- 11 dichroic colours + white
- colour wheel with rainbow effect in both directions
- 6 rotating and shaking interchangeable gobos (4 metal, 1 multicolour dichroic, 1 glass gobo) + open
- gobo wheel with continuous rotation in both directions
- strobe: 0 ~8 Hz, pulse strobe or sound activity strobe
- automatic program and music control
- display: digital address and function settings
- high speed pan & tilt movements
- display can turn 180° if the mounting location so requires
- DMX mode, stand-alone mode or master-slave synchro mode
- standard 15° manually focused beams angle
- memory function: automatic pan/tilt position correction

## 2. Safety Instructions



Be very careful during the installation: touching live wires can cause life-threatening electroshocks.



Do not touch the device during operation as the housing heats up.



Keep this device away from rain and moisture.



Unplug the mains lead before opening the housing.

- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- A qualified technician should install and service this device.
- Do not switch the device on immediately after it has been exposed to changes in temperature. Protect the device against damage by leaving it switched off until it has reached room temperature.
- This device falls under protection class I. It is therefore essential that the device be earthed. Have a qualified person carry out the electric connection.
- Make sure that the available voltage does not exceed the voltage stated in the specifications of this manual.
- Do not crimp the power cord and protect it against damage. Have an authorised dealer replace it if necessary.
- Disconnect the device from the mains to clean it or when it is not in use. Handle the power cord by the plug only.
- There may be some smoke or a particular smell when the device is activated for the first time. This is normal and any smoke or smell will gradually disappear.

- Do not look directly at the light source as sensitive people may go into epileptic seizure if they do.
- Note that damage caused by user modifications to the device is not covered by the warranty.
- Keep the device away from children and unauthorised users.

### 3. General Guidelines

- This device is designed for professional use on stage, in discos, theatres, etc. The **VDP2000A9** should only be used indoors with an alternating current of max. 230V AC/50Hz.
- Lighting effects are not designed for permanent operation: regular operation breaks will prolong their lives.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Select a location where the device is protected against extreme heat (see “**7. Technical Specifications**”), dust and moisture. Respect a minimum distance of 0.5m between the device’s light output and any illuminated surface.
- Use an appropriate safety cable to fix the device (e.g. **VDLSC8**).
- Familiarise yourself with the functions of the device before actually using it. Do not allow operation by unqualified people. Any damage that may occur will most probably be due to unprofessional use of the device.
- Use the original packaging if the device is to be transported.
- All modifications of the device are forbidden for safety reasons.
- Only use the device for its intended purpose. All other uses may lead to short circuits, burns, electroshocks, lamp explosion, crash, etc. Using the device in an unauthorised way will void the warranty.
- **! Never look directly into the light source, as sensitive persons may suffer an epileptic shock.**

### 4. Installation

#### a) Installing or replacing the lamp

- Only fit or replace a lamp when the device is unplugged from the mains.
- Let a lamp cool down before replacing it as the temperature of a lamp can reach 700°C during operation.
- When handling a halogen lamp, do not touch it with your bare hands. Use a cloth to insert or remove it.
- Do not install lamps with a higher wattage than that for which this device was designed.
- Replace any deformed or damaged lamp with a lamp of the same type (see “**7. Technical Specifications**”):

For the installation, you need a 70V / 150W CDM G12 lamp, order code **LAMP150HTI/2**

Please remember the lamp is not a hot-restrike type, you must wait for approximately 10 minutes after having turned off the lamp before you can turn it back on again.

**Remark: Do not operate the device when the lid is off.**

#### b) Mounting the device

- Have the device installed by a qualified person, respecting EN 60598-2-17 and all other applicable norms.
- The carrying construction must be able to support 10 times the weight of the device for 1 hour without deforming.
- The installation must always be secured with a secondary attachment e.g. a safety cable (**VDLSC8**).
- Never stand directly below the device when it is being mounted, removed or serviced. Have a qualified technician check the device once a year and once before you bring it into service.
- Install the device in a location with few passers-by that is inaccessible to unauthorised persons
- Overhead mounting requires extensive experience: calculating workload limits, determining the installation material to be used... Have the material and the device itself checked regularly. Do not attempt to install the device yourself if you lack these qualifications as improper installation may result in injuries.
- Before mounting make sure the installation area can hold a minimum point load of 10 times the device's weight.
- Make sure there is no flammable material within a 50cm radius of the device.
- Have a qualified electrician carry out the electric connection.
- Connect the device to the mains with the power plug. Do not connect it to a dimming pack.
- The installation has to be approved by an expert before the device is taken into service.

## 5. Use

The moving head can be controlled by up to 9 DMX channels:

CHANNEL 1: pan movement (max. 530°): 8 bit  
 CHANNEL 2: tilt movement (max. 285°): 8 bit  
 CHANNEL 3: pan movement fine: 16 bit  
 CHANNEL 4: tilt movement fine: 16 bit  
 CHANNEL 5: speed of pan and tilt movement  
 CHANNEL 6: colour selection  
 CHANNEL 7: gobos selection  
 CHANNEL 8: gobo rotation  
 CHANNEL 9: strobe effect

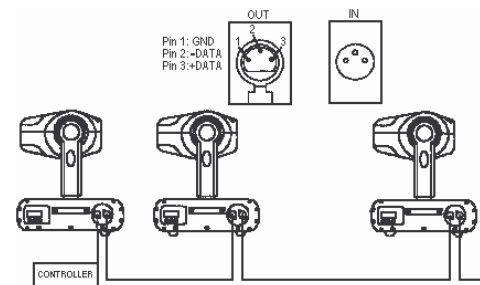
### a. Detailed DMX values per channel

	Description	From	To	Function
CHANNEL 1	pan	0	255	8 bit
CHANNEL 2	tilt	0	255	8 bit
CHANNEL 3	pan fine	0	255	16 bit
CHANNEL 4	tilt fine	0	255	16 bit
CHANNEL 5	pan / tilt speed	0	249	Speed setting (max > min)
		250	255	max. speed, blackout during pan / tilt movement or blackout during colour / gobo change
CHANNEL 6	colour wheel	0	9	white
		10	20	turquoise
		21	31	red
		32	41	cyan
		42	52	green
		53	63	magenta
		64	73	blue
		74	84	green
		85	95	yellow
		96	105	pink
		106	116	dark blue
		117	128	orange
		129	190	colour rotation
		191	192	music controlled colour changing
193	255	rainbow effect (slow > fast)		
CHANNEL 7	gobo wheel	0	9	open
		10	30	gobo 1
		31	50	gobo 2
		51	70	gobo 3
		71	90	gobo 4
		91	110	gobo 5
		111	127	gobo 6
		128	132	open
		133	139	gobo 1 shake
		140	155	gobo 2 shake
		156	171	gobo 3 shake
		172	187	gobo 4 shake
188	203	gobo 5 shake		

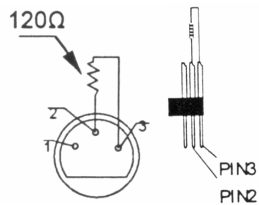
		204	217	gobo 6 shake
		218	223	music controlled gobo change
CHANNEL 8	gobo rotation	0	127	gobo indexing
		128	189	right rotation
		190	193	no rotation
		194	255	left rotation
CHANNEL 9	strobe	0	31	shutter closes
		32	63	shutter open
		64	95	strobe effect (slow > fast)
		96	127	shutter open
		128	159	music controlled strobe effect
		160	191	pulse strobe effect (close > open)
		192	223	pulse strobe effect (open > close)
		234	255	shutter open

### b. DMX-512 control connection

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the **VDP2000A9**. Multiple **VDP2000A9**'s can be linked through serial linking. The linking cable should be two core, screened cable with XLR input and output connectors. Please refer to the diagram on the right.



### c. DMX-512 connection with DMX termination



A DMX terminator is recommended for installations where the DMX cable has to run a long distance or is in an electrically noisy environment (e.g. discos). The terminator prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the chain. Please see illustrations to the left.

### d. Projector DMX start address selection

All DMX-controlled devices need a digital start address so that the correct device responds to the signals. This digital start address is the channel number from which the device starts to “listen” to the DMX controller. Enter the correct number and read it from the display located on the base of the **VDP2000A9**.

You can use the same starting address for a whole group of devices or enter an individual one for every device.

When all devices have the same address, all the units will “listen” to the control signal on one particular channel. In other words: changing the settings of one channel will affect all devices simultaneously. If you set different addresses, each device will “listen” to a separate channel number. Changing the settings of one channel will only affect the device in question.

In the case of the 9-channel **VDP2000A9**, you will have to set the start address of the first unit to 1, the second unit to 10 (9 + 1), the third to 19 (9 + 10), and so on.

## e. Function selection

Different functions can be set by means of the 5 push buttons and the display. When you turn on the fixture the display setting will be the same as the setting before you turned it off.



### Procedure:

- press UP or DOWN button to select a different function
- press ENTER to confirm the selected function, the display will show "PASS"
- select it to be on or off using the NO or YES button (No= up and YES= down while in DMX start address selection mode)
- press ENTER again to confirm your settings
- press EXIT/DN to save the setting and exit the menu

Please refer to the list below for the different settings:

Channel	F1	F2	F3	F4
1	pan	pan	pan	pan
2	tilt	pan (16bit)	tilt	tilt
3	pan (16 bit)	tilt	speed	colour
4	tilt (16 bit)	tilt (16 bit)	colour	gobo
5	speed	speed	gobo	gobo rotation
6	colour	colour	shutter	shutter
7	gobo	gobo	gobo rotation	
8	gobo rotation	gobo rotation		
9	shutter	shutter		

Function	Corresponding function		
F5	pan	N	Y
F6	tilt	N	Y
F7	setup	N	Y
F8	music control	N	Y
F9	auto program	N	Y
FA	master – slave mode	N	Y
FB	no function	N	Y
FC	display up/down	N	Y

## 6. Cleaning and Maintenance

1. All screws should be tightened and free of corrosion.
2. The housing, the lenses, the mounting supports and the installation location (e.g. ceiling, suspension, trussing) should not be deformed, modified or tampered with e.g. do not drill extra holes in mounting supports, do not change the location of the connections ...
3. Mechanically moving parts must not show any signs of wear and tear.
4. The electric power supply cables must not show any damage. Have a qualified technician maintain the device.

5. Disconnect the device from the mains prior to maintenance activities.
6. Wipe the device regularly with a moist, lint-free cloth. Do not use alcohol or solvents.
7. There are no user-serviceable parts, apart from the lamp (see “4. Installation”).
8. Contact your dealer for spare parts if necessary.

## 7. Technical Specifications

Power Supply	max. 230Vac/50Hz
Power Consumption	max. 300W
Lamp	70V / 150W CDM G12 (article number: <b>LAMP150HTI/2</b> )
Dimensions	320 x 345 x 425mm
Total Weight	10.5kg
Max. ambient temperature	45°C
Max. housing temperature	75°C

**The information in this manual is subject to change without prior notice.**