Contents

Description and Features

Nimbus gives you compact power. Its computer-optimized ellipsoidal reflector collects every photon from the economical long life 250W halogen lamp, delivering a high lumen beam. Bright. The easily focused lens brings the gobos into sharp focus.

Separate color and gobo wheels mean 81 color gobo combinations.

The Nimbus is a totally modular design so effect modules can be exchanged and replaced with just two screws and a cable connection. So like your desktop computer, you can upgrade features whenever you like.

The Nimbus was designed for ease of use, from convenient slide-out lamp replacement to rugged aluminum case design and standard 3 pin XLR signal connection. All backed by Geni's Total Quality Assurance for years of reliable service.

Features

- 8 static gobos
- 9 vibrant dichroic colors and white
- Two separate effects wheels for overlay effects
- 360° color wheel rotation for high speed rainbow effect
- 360° gobo wheel rotation for high speed effect
- Strobe effect 1~4 fps
- Inexpensive long-life halogen M/33 250W lamp
- Computer maximized high-output ellipsoidal reflector
- Standard DMX512 control
- Standard DMX512 address
- 170°pan 90° tilt
- Smooth micro-stepping
- Modular construction for easy servicing and upgrades
- 4 high torque precision stepper motors
- Axial fan cooling
- Standard 3-pin XLR signal connection
- AR & IR coated optics
- Select fixed or infinite positions for the color and gobo wheels
- Invert pan/tilt function for convenient programming.
- Built-in self test function
- Focus function allows you to focus unit without a controller
- Built-in program
- Built-in DMX512 termination

Warnings

1. Never operate unit when case is open.
2. Never cover unit as this may block air vents and cause overheating and possible fire hazard.
3. Never operate unit in the rain or in damp moist conditions as this could cause electric shock.
4. Follow standard electrical safety precautions when installing, operating or servicing the unit to prevent electrical shock, fire, or equipment damage.
5.These units are for commercial use and contain no user-serviceable parts inside. Servicing must be conducted by qualified service personnel.
6. Lamp produces hazardous UV light. Do not look directly at the lamp when lit. Do not expose skin to uncovered lamp.

Section 1

Inspection

Every Nimbus projector was thoroughly tested and shipped in perfect condition. Carefully unpack the projector and remove the bag with components from the carton. Inspect equipment for shipping damage.

Packing List:

1. Nimbus Projector
2. IEC power cord
3. Operating manual

Lamp Installation

Caution! Extremely hot! Always allow unit to cool before re-lamping

1. Loosen thumbscrews(d) on back of unit.
Slide out the lamp holder assembly.
2. Remove lamp from original packaging. Read the enclosed instructions.
**Lamp not included with Nimbus Projector*
** Do not touch glass with bare hands as this could damage the amp.*
4. Fit lamp into holder
5. Slide lamp holder assemble back into unit.
6. Tighten retaining screws

Projector Installation

1. Unit can be hung in any position.
2. Make sure to use a minimum 35Kg rated clamp.
3. Allow enough space on all sides for proper cooling.
4. Connect IEC power cord to back of unit (I).
5. Plug cord into properly grounded socket.
**Check that the voltage marked on the back of unit is correct for your area.*
6. Lamp will light and unit will reset and wait for signal from controller.
** The shutter is closed in stand-by mode, so it will be difficult to tell if the lamp is lit without a controller.*
** Unit may smoke and give off some smell for a few minutes as paint and dust in the unit is burned off by the lamp.*

Lens Focusing

1. Hang fixture in its final position
2. Set Function DIP switch #6 to on.
3. Projector shutter will open and Pan and Tilt will be set to center and Gobo will be set to "small spot"
4. Use a screwdriver to loosen the silver retaining screw (p).
5. Adjust lens (n) until sharp focus is obtained.

Warning: Tighten screw (p) securely. If screw is not tight the lens tube could slide out of the fixture. Causing equipment damage and/or personal injury

Section 2

DMX512 Operation

1.Connect the Nimbus fixture to the Mastermind 96 or any suitable DMX 512 controller with a3 pin XLR data cable. (See Appendix 2, DMX512 Basics, for details).

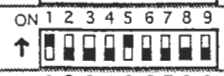
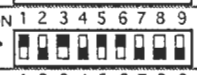
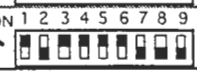
2. Continue to connect together all the fixtures using 3-pin XLR data cables.

3.Set the DMX address for each fixture using the 9 pin DIP switch (j) on back panel of the fixture. Each fixture uses 4 DMX512 channels:

1: Color; 2: Gobo1; 3: Pan; 4: Tilt (See DMX info sheet for details).

DMX512 Addressing

You must select the proper DMX512 address for each Nimbus projector. Below is a chart of standard addressing for use with the MasterMind56 controller. See the appendix **DMX512 Basics** for more details.

Projector	DIP switch setting	Projector	DIP switch setting
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	
8		16	

DMX512 Control

See appendix 1 for channel assignments.

Maintenance

Warning Disconnect power and let unit cool before handling. Never open unit when in use.

To maintain maximum brightness, it is essential that the unit is routinely cleaned. Use a damp cloth or glass cleaner . Never use alcohol or solvents.

Frequently wipe clean the mirror and external lens.
Occasionally clean the internal optical path.
Once a year, the projector should be taken down and the internal parts cleaned with a brush and a strong vacuum cleaner.

Trouble Shooting

Problem: Lamp is not lit and fan is not operating.
Possible Causes:

1. Fuse is burned out. Check fuse in IEC socket (I)
2. Poor power connection. Check mains.

Problem: Lamp not lit but fan is operating:
Possible Causes:

1. Lamp is burned out. Replace it with a standard lamp.
2. Lamp has come loose in mounting. Re-insert lamp.

Problem: Projector not responding to DMX512 signal:
Possible Causes:

1. Disconnect DMX512 cable. Turn on projector's self-test function with Function DIP switch # 5.

    a. If the projector does not operate properly, take it to a qualified technician for servicing.
    b. If the projector is OK, check the following:
        1. DMX512 address is not correct (use address1 for testing)
        2. Re-check your cabling (use a tested cable direct from your controller)
        3. Check that your controller is sending the proper signal by setting another Nimbus to the identical DMX512 address.

Problem: Reduced brightness
Possible Causes:

1. Mirrors and lenses require cleaning.

Function settings

These functions are designed to give you added convenience and power, making installation and programming faster and easier.

Switch	Off	On
No. 1	Full and split Gobo positions	Unlimited Gobo positions
No. 2	Full and split Color positions	Unlimited Color positions
No. 3	Normal	Inverted Pan
No. 4	Normal	Inverted Tilt
No. 5	Normal	Self test
No. 6	Normal	Focus
No. 7	Normal	Auto Program
No. 8	Normal	DMX512 Termination

Function #1: "Off": gobo wheel only stops at full and split color positions. This makes programming and control much easier.
"On": gobo wheel can be placed in any position for extreme control and special effects.

Function #2: "Off": color wheel only stops at full and split color positions. This makes programming and control much easier.
"On" color wheel can be placed in any position for extreme control and special effects.

Function #3 "On" Inverts the Pan motion. Useful when projectors are mounted "head to head", to make the mirrors move in unison.

Function #4 "On" Inverts the Tilt motion. Useful when projectors are mounted "head to head", to make the mirrors move in unison.

Function #5 "On" Nimbus automatically runs through all the features one at a time. So you can see every gobo and color and pan/tilt motion. Used to test operation of unit.

Function#6 Makes focusing the Nimbus easy. Opens the shutter and places the "small spot" gobo in the center position for easy focusing without needing a controller.

Function#7 Built-in demonstration program

Function#8 DMX512 line termination, Use if this is the last projector on the DMX512 chain.

Specifications

Physical

Dimensions: 570x220x165mm (LxWxH)
Weight: 12.0kg
Voltage: 110V or 230V 50/60Hz
Power consumption: 300VA

Control

Signal: USITT DMX512
Signal connection: 3 pin XLR
Addressing: Standard DMX512 9 pin binary
Channels: 4
Termination: Built-in (manual)