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# Operation Manual

## Blanket-Lite 6x6 DMX



**KINO FLO®**  
Lighting Systems

# Blanket-Lite Kit 6x6 Includes:



## BKT-6X6

Blanket-Lite 6X6



## REF 6X6

Silver Reflector



## FRM-6X6

Frame Assembly



## DFS-6X6

Silk Diffuser (x2)



## X19-25M

25ft Mega 4 Bank  
Extensions (x4)



## KAS-6X6

Blanket-Lite  
Case



## BAL-450-M120 BAL-450-M230

Mega 4Bank  
Dmx Ballast (x4)



## KAS-6X6-F

Frame Case



## XLR-501 (x3) XLR-525 (x1)

Dmx Cable  
5-Pin Xlr



## KAS-4MX

Dmx Ballast  
Mount Case

# Blanket-Lite Assembly and Features

The **Blanket-Lite 6x6** consists of sixteen 6ft high output lamps powered by four Mega Dmx 4Bank ballasts. Lamps are spaced along two ratchet straps on 4 ½ inch centers. The Blanket-Lite mounts onto a 6x6 pipe frame and works by itself or in conjunction with diffusion materials, silver reflector (**REF-6X6**) or soft egg crate louver (**LVC-6X6** sold separately). **No Tools required for assembly.**

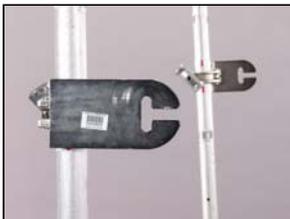
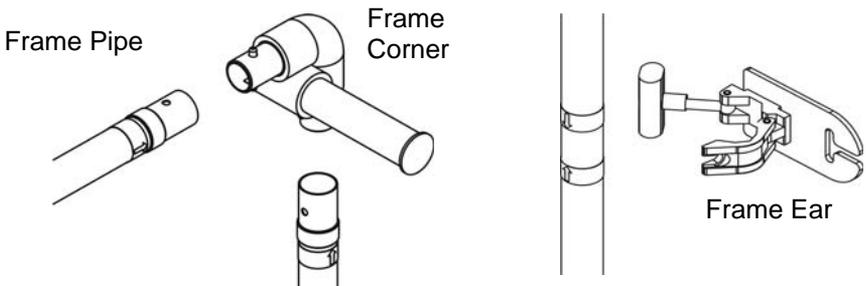
# Assembly of Frame



The Frame Assembly  
**(FRM-6X6)** consists of:

- 4 Frame Corners
- 4 Frame Pipes
- 12 Frame Clip Pins
- 2 Frame Ears

No tools are required to assemble the frame. Depress pins on the frame corners and twist until they mate with holes in the Frame Pipe. Once attached to the Pipe, Frame Corners should all be facing the same way.



Clamp the two frame ears between the two arrows found midway on the pipe frame. Face in the same direction as the frame corners.

The ears mount into a large grip head on high roller stands or other like stands.

**Note:** The locking knuckles should be pointed to the inside of the frame.

# Mounting Blanket-Lite to Frame



The Blanket-Lite should travel with lamps preloaded.

- 1) It is recommended to mount the frame between two stands. Tilt the top edge of the frame over the open shipping case. Pull the Blanket-Lite straps out of the box leaving the Blanket-Lite in its case.
- 2) Line up Blanket-Lite straps with the black Velcro on the pipe frame. Line up the straps' red line with the **red arrow** of the tube. This ensures lamps are evenly spaced out within the pipe frame. Tighten loop down to the pipe frame.
- 3) Tilt the frame up thereby lifting the Blanket-Lite out from the case.
- 4) Once the Blanket-Lite has cleared the case, loop the straps around the lower portion of the pipe frame.
- 5) Hook the ratchet to the other end of the strap.

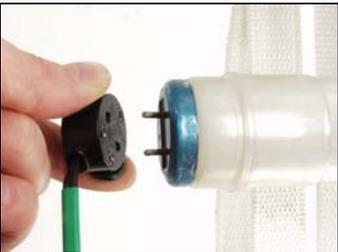


6) Draw up any slack in the strap and tighten by drawing down the ratchet lever until tight.



Use the Harness Velcro straps to secure the harnesses to the frame.

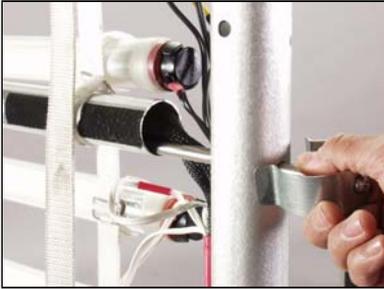
## Attaching Lamps to Blanket-Lite



The Blanket-Lite consists of four wiring harnesses that power sixteen, 6ft **HO** lamps. You must follow the color-coding to achieve light level control features (discussed in Ballast section).  
**Note:** The easiest way to mount lamps is if the Blanket-Lite Ratchet straps have already been attached to the Frame. Velcro loops hold lamps to the straps.

**Important!**  
The color-code on both ends of the lamp must be the same, and both ends must be securely connected **BEFORE** turning on power.  
Once the lamps have been loaded, they can stay attached to the Blanket-Lite and placed in the Shipping Case for storage and shipping.  
If a second color temperature lamp is used regularly, it is recommended to have an additional pre-globed Blanket-Lite (**BKT-6X6**) and an additional shipping case (**KAS-6X6**).

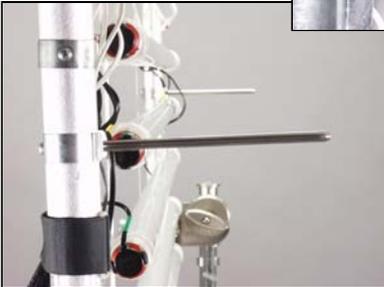
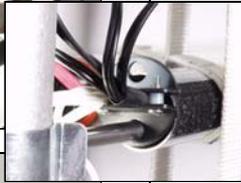
# Inserting Pins for Accessories



To give rigidity to the Blanket-Lite insert 4 pins through the pipe frame into the two horizontal Blanket-Lite harness tubes.

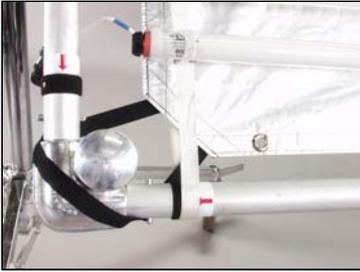


One end of the harness tubes require the pins to be inserted through the strain relief disc.



Insert the remaining 8 pins at 90 degrees to the frame. These pins support additional accessories.

# Mounting the Reflector



Apply the silver cloth reflector (**REF-6X6**) by looping the elastic corner ties around each corner.



Orient the reflector so that the Velcro strips on the reflector line up with the Velcro on the Lamp harness tubes.

# Mounting Diffusion Material



Elastic loops hold the diffusion material to the corner posts.



The pins along the middle of the frame provide additional support to the diffusion.

# Mounting Cloth Louver



Each corner of the Louver (**LVC-6X6** sold separately) has an adjustable Velcro loop.



Loosely hang the two top corners of the louver around the frame's upper corner posts.

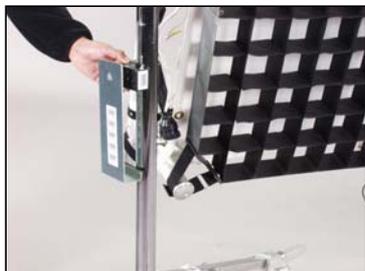


Set the tension of the louver by adjusting the four Velcro loops.

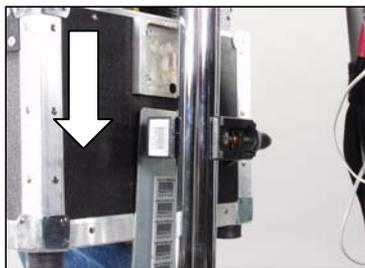


Further tension and support is provided by the adjustable elastic loops along the edge of the louver.

# Mounting Ballast Tray



Using the Mafer Clamp (**MTP-AME58**) mount the Hanger onto the stand.



Slide the Tray onto the Hanger.



Connect the extension cables to the harnesses and ballasts. (See Page 9)

The Ballast Tray can be moved with the Blanket-Lite and Frame.

# Extension Cable



To insert the cable (**X19-25M**), align the key ways on the extension cable with the circular receptacle on the ballast. Rotate the locking ring until it clicks into the lock position.

Lamps can operate as far as 75 feet from the ballast. (3 x 25ft extensions)

# Operating Blanket-Lite w/ Dmx

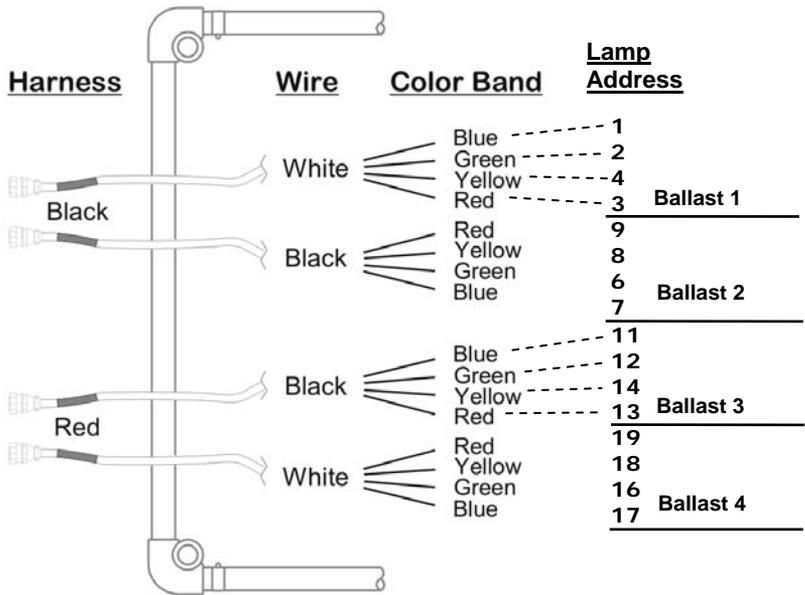
Four Mega 4Bank DMX Ballasts are required to operate one Blanket-Lite fixture. Set the unit to “**Individual Lamp**” mode and jumper the ballasts together with DMX cables. (See page 11-14 for Dmx operating guide).

A total of 20 DMX addresses will be required.

- Ballast 1 = addresses 1 - 5
- Ballast 2 = addresses 6 - 10
- Ballast 3 = addresses 11 - 15
- Ballast 4 = addresses 16 - 20

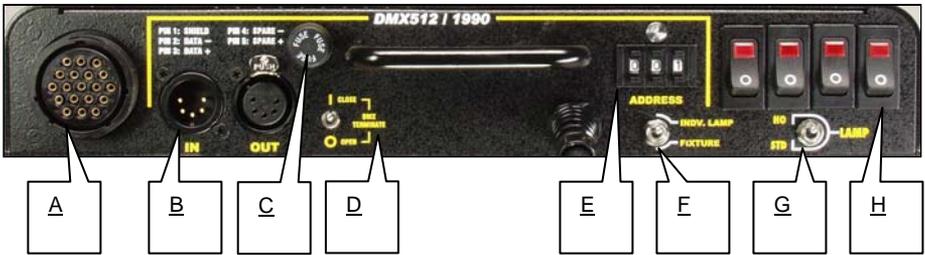
Keep in mind that the 5<sup>th</sup> address of each ballast controls the **HO/STD** setting for the 4 lamps. The slider must be full up to activate the **STD** setting. Positioning the dim slider under 49% will switch the lamps to **HO** operation.

The diagram below illustrates the corresponding lamp addresses to their position on the Blanket-Lite.



To alternate the lamps turn either 2 center switches 2 & 3 off or 2 outer switches 1 & 4 off. This will result in an on/off pattern for an even 1 f-Stop drop in light output.

# Mega 4Bank DMX Control Panel



- A) **Circular Output Connector:** Provides electrical power to the lamp head with the use of a 4Bank extension cable.
- B) **DMX-In & DMX-Out:** DMX-IN receives DMX signals from Dimmer Board. DMX-OUT relays DMX signal through to other Fixtures or Instruments.
- C) **Fuse:** Provides circuit protection. *Note: If Fuse is "blown" or "open" replace with same type of fuse rating as marked.*
- D) **DMX TERMINATE Switch:** Terminates DMX signal at the end of Fixture series.
- E) **DMX Address:** Sets DMX Address of Fixture.
- F) **Individual Lamp / Fixture Switch:** Converts between INDIVIDUAL LAMP and FIXTURE methods of DMX control.
- G) **Lamp Select:** Set to **HO** for burning lamps at high output and **STD** for burning lamps at Standard Light Output.
- H) **Manual Switches:** Turns lamps on and off manually.

# DMX Operation



## IMPORTANT!

The dimmer board/light console should have its channel set to LINEAR light output response.

(LINEAR response is the default setting)  
**Lamp Select Feature**

## DMX Addressing

Push the tabs above or below the number window to set the address.

(Valid addresses range from 001 to 512.)

The yellow light above the address block will illuminate if a DMX signal is present.

## Each Mega 4Bank DMX ballast operates on 5 addresses.

After the DMX address is entered, the ballast automatically assigns the next 4 addresses to lamps 2,3,4 and a 5<sup>th</sup> address controls the **STD** setting. Programming the 5<sup>th</sup> address at full dimmer setting activates the **STD** setting.

**Note:** When DMX cables are applied the manual **HO/STD** select feature will be disabled. To get manual control of the **HO/STD** feature 1)Unplug the DMX cable or 2) leave cables plugged in and set address to "000". There is a 5 second delay when switching between DMX and Manual control.

**Manual lamp switching is not affected by DMX control.**



The **DMX Terminate Switch** must be set to open ( **O** ) on Ballasts within the DMX chain.

Set to closed ( **I** ) when the Ballast is the last DMX control device in the chain.

*Note: When the last Ballast's DMX Terminate Switch is set to "I," it will absorb all energy in the DMX line, ensuring DMX signals are transmitted correctly. If a signal is not terminated, it is called a "Reflected Wave," and may create transmission errors by causing valid DMX signals to be canceled.*



Any theatrical lighting board with DMX 512 protocol can be used to individually turn **on/off** lamps in a Fixture.

Mega DMX 4Bank Ballasts can be jumpered using the IN and OUT ports. As many as 100 Ballasts can be jumpered on one chain as long as the DMX cable run remains under 1000 feet or 40 x 25ft DMX cables.

**Note:** When operating Ballasts at great distances from the dimmer board, it is recommended to use Opto-Isolators to provide DMX signal amplification.



### DMX Cables

The Fixture uses five-pin XLR male and female connectors to receive DMX signals from the Dimmer Board and jumper the Fixtures in a series. DMX pin-out wiring follows the USITT DMX512 standard:

- Pin 1: Shield**
- Pin 2: Data -**
- Pin 3: Data +**
- Pin 4: Spare -**
- Pin 5: Spare +**

*Note: Pin four and five in the Fixture are connected internally as Pin four to four and Pin five to five. Connecting Pin four and five as the pass-thru allows secondary data to be passed through for other equipment.*

**Do Not use Microphone Cables** and other general purpose, two-core Cables designed for audio or signaling use. They are not suitable for DMX 512.

Problems due to incorrect cabling may not be immediately apparent. Microphone Cables may appear to work fine, but systems built with such Cables may *fail* or be prone to *random errors*. Cable must comply with EIA-485 (RS485).

**NOTE: If a Fixture or Ballast loses its DMX signal it will hold its last DMX command.** For this reason it is important to turn a Fixture or Ballast off using the DMX commands. For example, if you try to turn off the lights by turning off the dimmer board the lights will remember their last DMX command and stay on. The Fixtures or Ballasts require a DMX “Off” or “Black-out” command in order to turn off.

# Fixture Mode



Setting the Ballasts to "Fixture Mode" allows the user to turn lamps on and off with an "inside-out" pattern from a dimmer board.

For example: Blanket-Lites can be set to Fixture mode on a common address. When the fader on the dimmer board is brought up or down all the Fixtures on that address will have the same lamps turned on.

## ***Dimmer level - Lamp response***

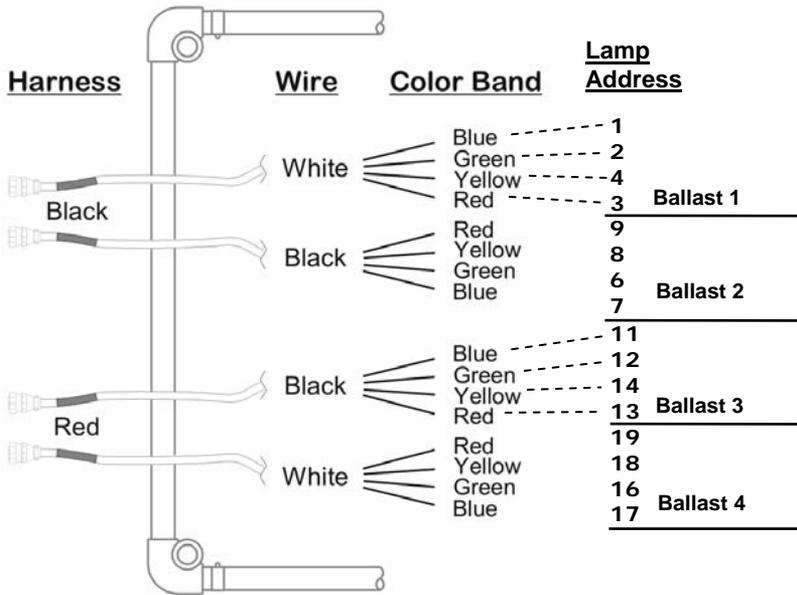
Each ballast has 5 addresses. Addresses 001-004 control the lamps. Sliding the fader on the dimmer board from 0 ~ 100 controls the number of lamps that are on within a fixture. Address 005 controls the **STD** setting.

**Note:** The lamps may respond  $\pm 4$  channel levels, depending on the dimmer board. To control the **STD** select feature, program the 5<sup>th</sup> address (005) at full. Setting the dimmer value under 49% or not programming address 5 will restore the **HO** setting.

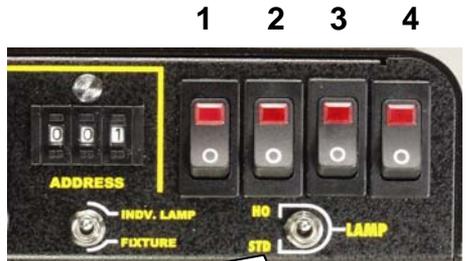
## **To Control Light Levels from Multiple Blanket-Lites:**

- 1) Set ballast to **Fixture** mode.
- 2) Set all ballast addresses to a common address (eg. 001).
- 3) Set address 005 if the **STD** setting is required.
- 4) Set end of line switch to "I" on the last unit in the DMX chain.

# Operating Blanket-Lite Manually



Four Mega 4Bank DMX Ballasts are required to operate one Blanket-Lite fixture.



## Lamp Select Feature

The Mega 4Bank DMX Ballasts have a **HO / STD** switch. Set the Selector Switch to **HO** for full light output. The **STD** setting can be used to lower the light level by a 1/2 f-Stop.

When operating lamps in high ambient temperature or where the units are rigged into place with restricted airflow, the **STD** setting can be used to lower the color temperature and remove any green spike.

To alternate the lamps turn either 2 center switches **2 & 3** off or 2 outer switches **1 & 4** off. This will result in an on/off pattern for an even 1 f-Stop drop in light output.

# Ballast Operation



## WARNING!

- 1) ALWAYS TURN OFF THE BALLAST BEFORE connecting or disconnecting Lamps, Harnesses or Extension Cables.
- 2) Use only with Sine wave inverters. Do not operate on SCR dimmers.
- 3) If powering the ballasts through a Dimmer Pack set the Dimmer to Non-Dim Mode.

The 120 VAC Ballast requires 110 to 130 Volts AC 50/60 Hertz on an earth grounded circuit; the 230 VAC Ballast requires 220 to 240 Volts AC on an earth grounded circuit. The electronic Ballast operates at a high frequency of 25 KHz. It is dead-quiet, instant-on and lightweight.

The Ballast operates remote from the fixture. Connect the Extension cable to the Ballast and the Lamp Harness. After the lamps are properly installed the Ballast can be turned on.

## Cold Temperature Operation

The Select Ballast series is designed to operate at temperatures from 14F to 122F (-10C to +50C). In cold temperatures, the Ballast may not strike the lamp (s) instantly. Switch the Ballast to OFF, wait seven seconds and try again. If the Ballast does not strike after two or three attempts, turn off the Ballast, check that the Extension and Harness connections are secure and re-strike. Once operating for a few minutes, the Lamps should re-strike instantly.

# Accessories and Parts

	<p><b>2110001</b></p> <p>Tray Velcro Strap</p>		<p><b>MTP-BKT-100</b></p> <p>Frame Ear</p>
	<p><b>2320002</b></p> <p>Blanket-Lite Ratchet Strap</p>		<p><b>MTP-BKT-300</b></p> <p>Frame Clip Pin</p>
	<p><b>DFS-6X6-G</b></p> <p>Full Grid Cloth Diffuser</p>		<p><b>MTP-BKT-400</b></p> <p>Frame Corner</p>
	<p><b>DFS-6X6-GH</b></p> <p>Half Grid Cloth Diffuser</p>		<p><b>MTP-BKT-500</b></p> <p>Frame Pipe</p>
	<p><b>LVC-6X6</b></p> <p>Lighttools® 50° Louver</p>		<p><b>PRT-HLC</b></p> <p>Lamp Connector</p>
	<p><b>MTP-AME58</b></p> <p>Mafer clamp</p>		<p><b>XLR-503</b></p> <p>Dmx Cable 5-Pin xlr, 3ft</p>

# Cases



**KAS-6X6**



**KAS-6X6-F**



**KAS-4MX**

Part Number	Description	Dimensions	Weight (Empty)	Holds
KAS-6X6	Blanket-Lite Ship Case	78.5 x 10.5 x 14" (199 x 26.5 x 35.5cm)	30lb/13.5kg	Blanket-Lite 6X6 (1)
KAS-6X6-F	Blanket-Lite Frame Ship Case	74 x 9 x 12.5" (188 x 23 x 32cm)	27lb/12.2kg	Blanket-Lite Frame (1)
KAS-4MX	Blanket-Lite DMX Ballast Mount and Ship Case	25.5 x 16 x 20" (65 x 40.5 x 51cm)	33lb/15kg	Mega DMX Ballasts (4) Cables (4) Mount (1)
KAS-72	6ft Lamp Ship Case	71 x 10.5 x 11" (180.5 x 26.5 x 28cm)	20lb/9kg	6ft Lamps (20)
INS-L4	4-Lamp Foam Pad	24 x 9 x 1" (61 x 23 x 2.5cm)	N/A	Fits KAS-72

## Blanket-Lite Specifications

BLANKET-LITE Specifications:	
Outside dimensions of BLANKET-LITE with frame:	80" H x 80" W x 11" D 203 x 203 x 28cm
Weight of BLANKET-LITE w/ lamps:	26lbs/11.7kg
Weight of BLANKET-LITE w/ lamps and frame:	72.5lbs/32.6kg

# Ballast Specifications



## **BAL-450-M120**

Mega 4Bank Dmx Ballast, 120VAC

Input Voltage: 120VAC 50/60Hz

Output Frequency: 25 kHz

Amperage: F120/7.1A x 4 = 28.4

F100/5.8A x 4 = 23.2

Lamp switching: 4-1/off

Output Switching: HO / STD

Ballast size: 13 x 12.5 x 2.5"

(33 x 32 x 6.5cm)

Weight: 6.5lb / 2.9kg

## **BAL-450-M230**

Mega 4Bank Dmx Ballast, 230VAC

Input Voltage: 230VAC 50/60Hz

Output Frequency: 25 kHz

Amperage: F120/7.1A x 4 = 28.4

F100/2.8A x 4 = 11.2

Lamp switching: 4-1/off

Output Switching: HO / STD

Ballast size: 13 x 12.5 x 2.5"

(33 x 32 x 6.5cm)

Weight: 6.8lb / 3.1kg

## **Environmental: Disposal of Old Electrical & Electronic Equipment.**



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. This product is made of recyclable materials and should be disposed of in accordance with local and state regulations.

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