# VistaBeam® DMX




Kino Flo's VistaBeam® 610 and 310 will change the way our industry lights film and television studios.
A VistaBeam 610, for example, delivers the equivalent of a 4,000 Watt Softlight, but uses only nine Amps of power.
Both fixtures have a DMX control system and the ability to produce daylight or tungsten balanced light from the same fixture.

**VistaBeam Features Include**

- DMX lamp switching
- HO/Standard switching
- Individual lamp control
- Flicker-free, remote operation
- Reflector, Louver and Gel Frame
- Stackable design
- Instant-on, dead quiet
- True Match® daylight and tungsten lamps

**Available in Center Mount, Yoke Mount and Pole-Op.**

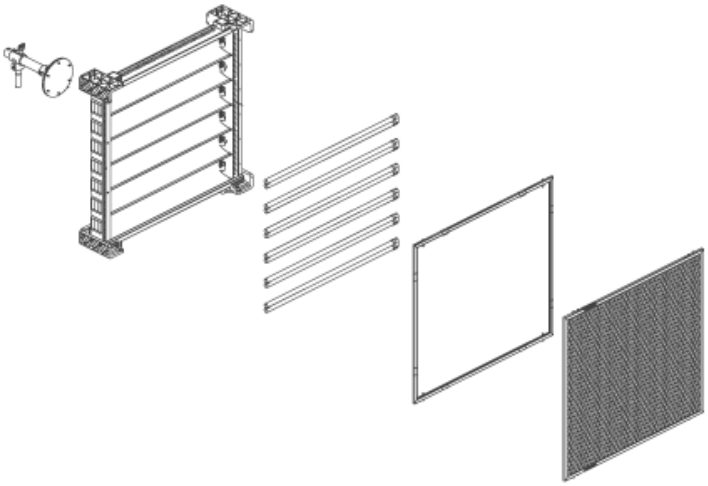
**Details Of Features**

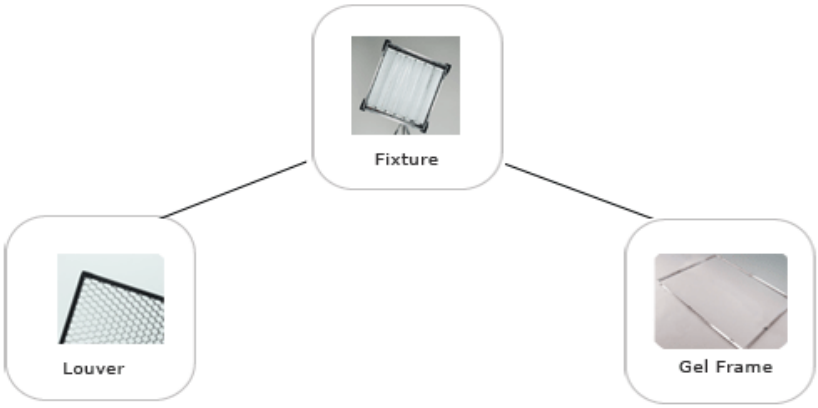
More Information

**VistaBeam Highlights**

- Broad, even light – ideal for studio and location lighting
- Low amperage draw, energy savings
- Long lamp life, low lamp replacements, low maintenance labor
- Low operating temperature
- Low air-conditioning costs
- More efficient heat management design for stable color temperature
- Uses 5500K, 3200K, 550nm green and 420nm blue lamps
- Mix lamps for various color temperatures
- High color rendering True Match® lamps work well alongside conventional quartz lights or HMI's.
- DMX and manual switching for stable color temperature and light level control
- Center Mount, Yoke Mount and Pole-Op
- Multi-use, location daylight fill or soft key, studio soft light, studio blue and green screen lighting

**Each System Includes:**






1 DMX VistaBeam Fixture
1 Honeycomb Louver 90°
1 Gel Frame

The VistaBeam 610 and 310 display a broad soft beam for studio and location lighting. The VistaBeam 610 puts out more light than a 4K quartz softlight (120VAC) but uses only 9 Amps of power compared to 34 Amps needed for the quartz light. Its compact sibling, the VistaBeam 310, is half the size and delivers more light than a 2,000 watt quartz softlight.

Kino Flo designed the VistaBeam series to be a lightweight alternative to conventional studio softlights such as "chicken coops" and "space lights". VistaBeams also do a better job of illuminating interior and exterior sets with daylight quality light than HMI's punching through fabric diffusion boxes. Fitted with narrow spectrum blue or green visual effects lamps, VistaBeams are ideal for composite screen lighting applications.

The unique lighting characteristics and fixture design of the VistaBeam have already captured the imagination of film, video and photo lighting professionals worldwide, and have earned the respect of lighting departments grateful for the fresh stream of rental income.

**VistaBeam Kits**

VistaBeam 610 DMX Center Kits

**KIT-V6C-120**
VistaBeam 610 DMX Center Kit, 120VAC
**KIT-V6C-230**
VistaBeam 610 DMX Center Kit, 230VAC

VistaBeam 310 DMX Center Kits

**KIT-V3C-120**
VistaBeam 310 DMX Center Kit, 120VAC
**KIT-V3C-230**
VistaBeam 310 DMX Center Kit, 230VAC

**Contents**
1 VistaBeam 610 DMX Center
1 VistaBeam Louver 90°
1 Ship Case

**Dimensions**
41.5 x 15.5 x 44"
(105.5 x 39.5 x 112cm)

**Weight**
140lb (63kg)

**Contents**
1 VistaBeam 310 DMX Center
1 VistaBeam Louver 90°
1 Ship Case

**Dimensions**
42 x 14.5 x 25.5"
(107 x 37 x 65cm)

**Weight**
82.3lb (37kg)

**VistaBeam Fixture Styles**


Center Mount


Yoke Mount


Pole-Op

The VistaBeam DMX fixture styles available include: Center Mount, Yoke Mount and Pole-Op. Each fixture includes a 90º Honeycomb Louver and a Gel Frame.

**The Center Mount**


VistaBeam with Center Mount


Center Mount Assembly (Included)


Junior Pin Stand Adapter (Included)

The center mount is ideal for location shooting and allows the fixture to spin 360 degrees to produce a wide range of desired beam angles. The Junior Stand Adapter **(MTP-V63JR)** is best suited for stand mounting. If used to hang in a studio, the fixture weight will not be properly centered. Use Hanging Adapter **(MTP-V63H1)**.
See Below.

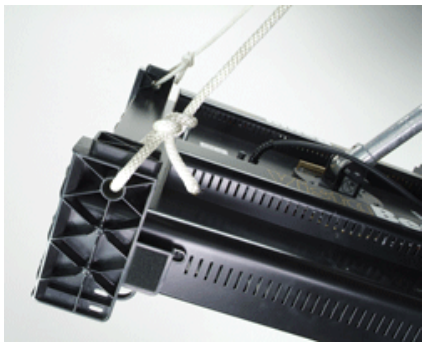
**Hanging Adapter for Center Mount Option**

**(MTP-V63H1)** Junior Hanging Adapter

The Junior Hanging Adapter is used for hanging from a grid. Remove Junior Stand Adapter and attach hanging adapter at the end of the speed-rail pipe. The Hanging Adapter centers the weight of the fixture.

**Other Rigging Options**


Speed Rail compatible



Four-point rope hang

The Mount arm is made of 1.66” O.D (42mm OD) pipe. This is a common rigging pipe used with Speed Rail™ fittings. Custom rigs can be easily assembled to hold larger banks of fixtures for specialty studio applications.

**The Yoke Mount**

VistaBeam with Yoke

Yoke Assembly (Included)

Junior Pin (Sold separately)

The Yoke can attach to stands or studio grid hardware via a standard junior pin and a Junior Pin Assembly, **MTP-I80** (sold separately). Operators can choose between a "stand" version design or a straight "hanging" adapter version when mounting the fixture.

**The Pole-Op**

VistaBeam w/ Pole-Op

Pole-Op (Included)

Pole-Op Yoke Assembly (Included)

Jr. Pin

The new Pole-Op Mount allows the VistaBeam to be hung from a pipe grid and adjusted from the ground using a long pole. The fixture includes a yoke with an attached junior pin.

The blue cup alters the Pan (left or right) and the white cup alters the Tilt (up or down).

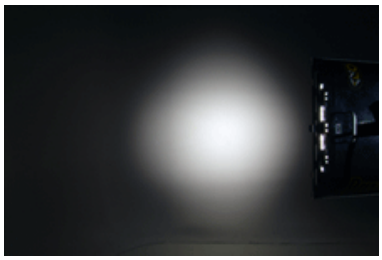
**Understanding "The Beam"**

Generally, fluorescents have a very broad soft light output. The light tends to drop off rapidly which means the units need to be positioned close to the subject they are lighting. Just like the ParaBeam, the VistaBeam has a computer aided designed (CAD) parabolic reflector that was designed to maximize the light output at about 16 feet (5 meters). This achieves two things: It doubles the light output of the lamps and concentrates the light where the lighting director needs it most.

The ParaBeam 410 is used as an example for illustration purposes:

In the **open face** mode the fixture has nothing obstructing the front of the unit. To best see the beam structure, shine it on a white wall. You can see a wide hot center of the beam. The light above and below the beam tapers off in intensity. Although the fixture is square, the beam of light is a broad lateral oval because of the parabolic reflector.

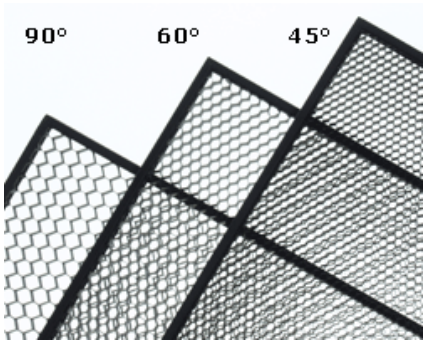
The **90° Louver** concentrates the light and behaves much like a 24” barndoor. The beam is slightly oval with a hot center. The light tapers off to a nice soft edge.



The **60° Louver** further concentrates the light into a smaller, tighter soft edged circle.

The **45° Louver** is the most concentrated circle of light. It would be similar to putting a 6 feet (1.5 meter) long snoot onto the ParaBeam. The spot displays a beautiful soft edge.

**Louver**

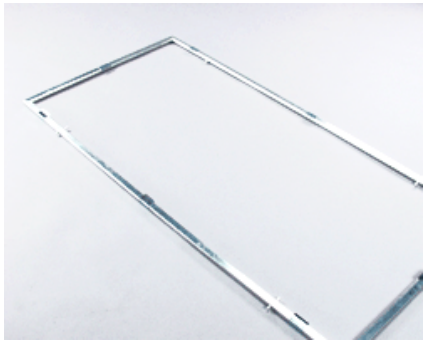



Kino Flo Honeycomb Louvers control and focus the light better than conventional barndoors.
The VistaBeam Fixture includes a 90° Honeycomb Louver.  The specially designed metal foil Louvers are also available in 60° or 45° which narrow the light spread with minimal light loss.

## VistaBeam Reflector

The VistaBeam 610 enjoys unique optical characteristics that are very similar to the popular Kino Flo ParaBeam® fixtures. Both these lights use parabolic reflectors that put out a highly efficient lateral beam of light. Unlike conventional softlights, such as quartz or HMI sources, which disperse their light in a general pattern, the VistaBeam concentrates its beam of light at about six meters from the fixture. By rotating the VistaBeam fixture either vertically or horizontally on the center mounting system, the operator has control over the orientation of the beam.

### Gel Frame



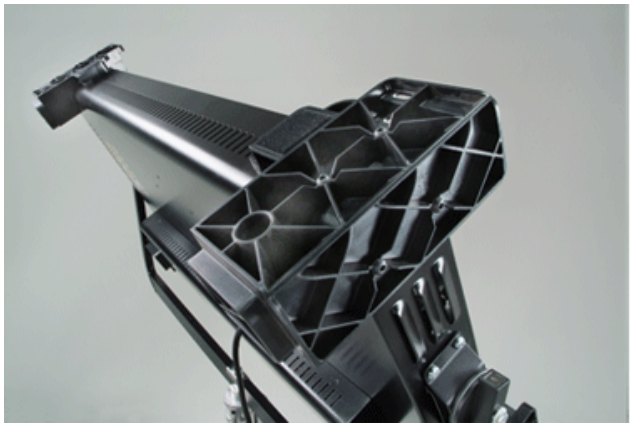
The Gel Frame fits into the accessory holder of the fixture. Retractable pins hold the gel frame in place. Eight gel clips are provided to secure the gel to the frame.

### Inserting Lamps

Open the two hinged reflector panels.  Insert the lamp base into the lamp connector.  Insert the lamp tip into the lamp clip.

Caution! If there is any resistance, realign the angle and try again.

**Corner Accessory Block**



Corner Mount on VistaBeam 610

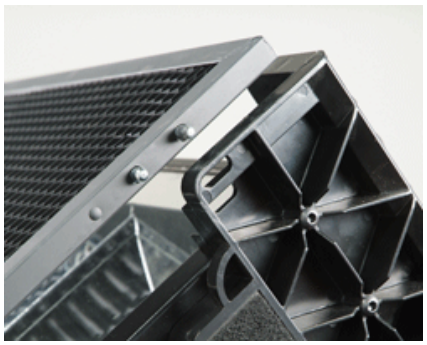
Corner Mount Block

The removable Corner Mount blocks are made of high-impact plastic.

They are designed to:

- Absorb shock in case the fixture is dropped.
- Provide hanging points when rigging with ropes or cables.
- Act as rigging points for clipping cards.
- Stack neatly to store multiple fixtures.

Gel Frame clips into corner block.



Louver clips into Corner Block.

Four-point rope hang

**DMX Control Panel**


The VistaBeam 610 uses seven DMX addresses (6 for individual lamps, 7th address to control High Output/Standard Output light levels). The VistaBeam 310 uses four DMX addresses (3 for individual lamps + 4th address to control High Output/Standard Output light levels).

For more detailed DMX information, see the Operation Manual.

**The Kino Flo Lamps**

VistaBeams use high-output 96 Watt T7 Twin tubes. Operating on a proprietary flicker-free ballast, the 34-inch (86cm) T7 lamp produces more lumens per watt than any other high-output True Match lamp. T7's come in True Match KF32 (3200K) tungsten balanced, KF55 (5500K) daylight balanced, and visual effects colors: a 420nm blue and a 550nm green lamp for blue and green screen composite photography.

**VistaBeam Advantages**

**Long Lamp Life**

In order to appreciate the advantages and the advancements of VistaBeam technology, one has to compare the VistaBeam to other studio softlight sources.

Tungsten-based softlights like "chicken coop" or "space light" style fixtures have common operating characteristics. First, they are power guzzlers that can draw from 32 to 50 Amps at 120 VAC and only produce as much light as a VistaBeam 610 that uses barely 10 Amps of power. Further, tungsten globes have a 200-hour life. Or less. This means that a production can expect to change globes every 16 to 20 days of shooting. By contrast, the T7 True Match lamps in a VistaBeam are rated for more than 10,000 hours under normal operating conditions. A VistaBeam takes six T7 lamps. A 6K chicken coop takes six 1,000 Watt bulbs, each costing 20% more per bulb. The cost savings over tungsten bulb replacements is huge.

**DMX Control**

There is an important practical advantage to the long lived lamps as well. Once a fixture is rigged high up in the studio grid, it can be very difficult to maintain the fixture once the set is built below. As a result, fewer lamp replacements in a hard-to-reach location translate into lower labor costs. And by simply mixing True Match® KF55 and KF32 lamps in the VistaBeam, lighting designers can produce a range of color temperatures using the remote DMX protocol without sending crew members to change out color gels.

**Heat Management Design**

The excessive heat produced by tungsten bulbs causes other problems. For example, running at more than 600° Celsius, there is a danger of a faulty lamp exploding and the resulting hot shards of glass damaging the set or injuring personnel under the lights. By contrast, the VistaBeam operates coolly, at about 70° Celsius. The T7 lamps don't explode like a tungsten bulb. Not to mention that the low operating temperature of a VistaBeam affords substantially lower air-conditioning costs.

**Reflector Design**

Softlights radiate light in a broad field. Flags, cutters, skirts or louvers are needed to concentrate the light into specific areas. The VistaBeam optical reflector drives the light out in a lateral beam. The beam is focused at about six meters. This highly efficient reflector maximizes the light output and concentrates it where it is needed most. To achieve a broad distribution of light, diffusion gels can be used to break the optical characteristics of the fixture.

**Center Mount, Yoke Mount and Pole-Op**

The Center Mount allows the fixture to spin 360 degrees to produce a wide range of desired beam angles. The fixture can be used on a stand with the Junior Stand Adapter **(MTP-V63JR)** included with the Center Mount. The Yoke can attach to stands or studio grid hardware via a standard junior pin or Junior Pin Assembly (**MTP-I80**- sold separately). The Pole-Op Yoke includes an attached junior pin and offers an advantage of lighting from a grid and eliminating the need for ladder access or costly automated rigging and hoist systems.

**Multi-Use – Blue & Green Screen Lighting, Location Fill/Soft Key, Studio Soft Light**

Blue and green screen lighting applications will also benefit from the optical design of the VistaBeam. The units can be positioned closer to the screen at a sharper angle than the popular Image 80 and Image 85 series cyc lighting fixtures. The result is higher light levels using fewer fixtures. Unlike tungsten far cycs and sky pan lighting systems, the VistaBeam can take blue and green spiked visual effects lamps that further enhance the suitability of the fixtures for composite photography.

As a soft light instrument, the VistaBeam has a high potential for use on film and TV production sets. All set lighting rental operations profit from equipment that is in steady use. The less time it sits on the shelf, the more profit it generates. The VistaBeam series will not only be a popular location or studio soft key light, but can be used in place of more traditional single application instruments such as those discussed above.

**Cost Savings**

Cost savings attributed to fluorescents cover a broad range of concerns:

- Low energy costs
- Less heat so lower air-conditioning expenses
- No gel replacements because of low heat
- Fewer lamp replacements due to longer lamp life
- Lamp replacement labor reduced by a factor of 10

**Energy Savings Calculations**

With the push for reducing fossil fuel consumption, TV studios are looking at cooler more efficient lighting systems to reduce costs and save energy. Part of this process involves generating energy values to determine savings.

One of the most important values is Btu/kWh.

**British Thermal Units per Kilowatt Hour**

Any light generates a percentage of usable light and the rest in heat.

For example, a standard incandescent light bulb converts only 11 percent of its electrical input into visible light, while the rest is dissipated directly as heat. There are energy costs involved in cooling the studio environment. The measure of Btu/kWh is a means of calculating the thermal loads related to operating lighting.

Use the following information to calculate Btu/kWh:

Watts to Btu
1 kWh = 3413 Btu/Hr.
1 Watt = 3.413 Btu/Hr.
3.413 Btu per Watt-hour