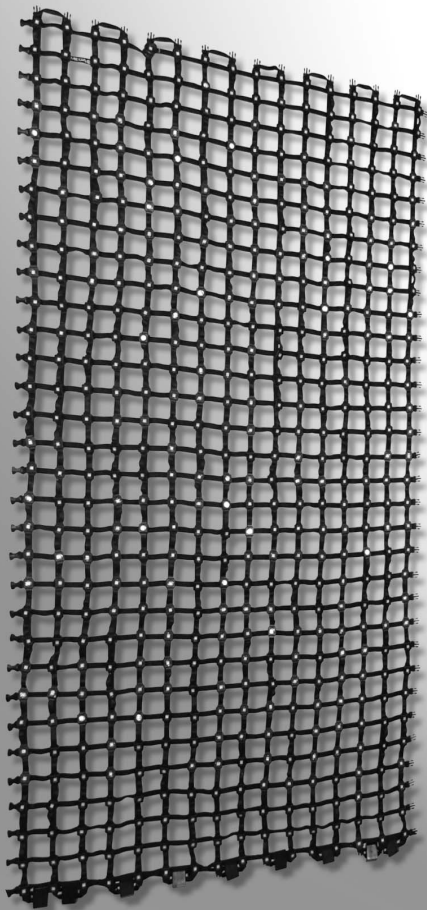


# *enigma*

*Net* *50mm 24V*

## User Manual



### Contents

Safety Information	2
Technical Information	3
Product Overview	4
Power Cable Connection	5
Wiring Instructions	6
Multiple Unit Installation	8
Rigging the Fixture	10
Maintenance	11



Check that the unit has not been damaged during transport



Read all cautions and warnings  
prior to operation of this  
equipment

#### Protection against fire



Fire

1. Maintain a minimum of 2 foot distance from any type of flame.
2. Replace fuse only with the specified type and rating.
3. Do not install the unit too close to a heat source.
4. Make sure cables are properly secured.

#### Protection against electrical hazards



Electrical

1. Disconnect power before servicing.
2. For Connection to power supply proceed to page 5
3. This unit must be earthed (electronically)
4. Do not expose to rain or moisture.
5. Do not extend power supply cable.

#### Protection against mechanical hazards



Mechanical

1. Use safety chain when hanging unit.
2. Make sure all clips are securely clipped together.

# Technical Features

## Fixture

EN-50-Enigma Net 50

## Flight Case

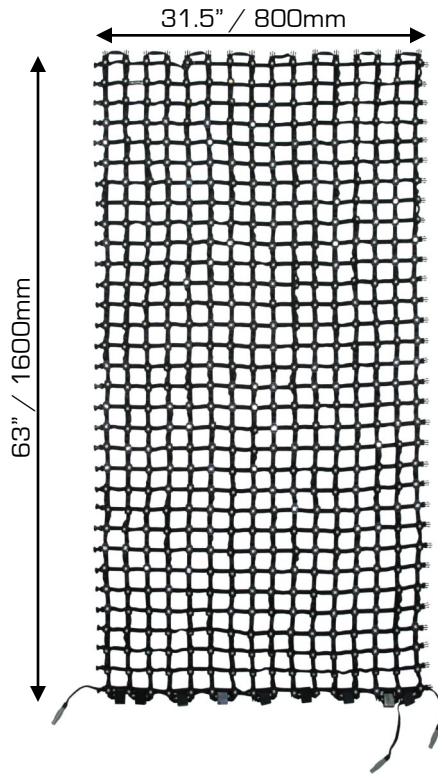
### Mechanical Specifications

- Pixel Pitch: 50mm
- Section Resolution: 16x32, 512 pixel per section
- Brightness: 1600cd/m2
- Viewing Angel: 145° Vertical 145° Horizontal
- Transparency: 49%
- Control Connection: ODU 5 pin signal connection  
ODU 2 pin power connection  
Sub Drive-Neutrik Ether Conn  
Power Supply-Neutrik Power Conn & NL4

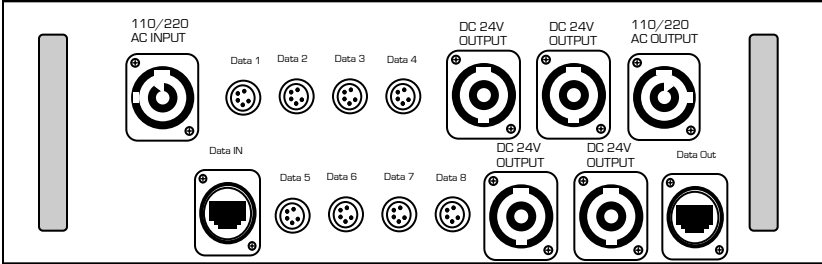
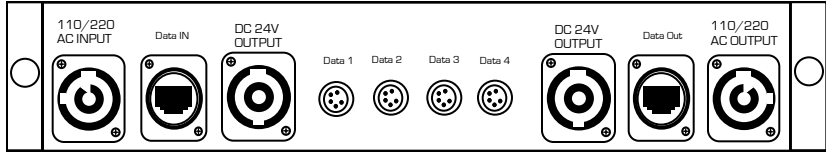
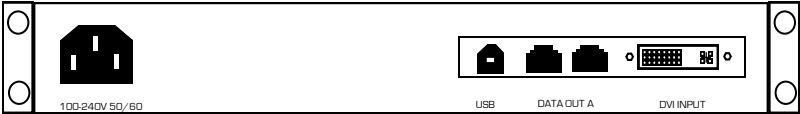
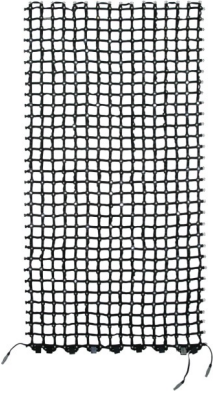
Dimensions / Weight
In:31.5" x 63" x .78" / mm: 1600 x 800 x 20
Weight: 5.5lbs

### Electrical Specifications

- LED Type: Samsung SMD tri color
- Led Quantity: 512
- LED Lifetime: 100,000 Hours estimated
- Power input: Manually Switchable 110V or 220V
- Power output: DC 24V
- Power Consumption: Watts



# Product Overview



## EN-50—Enigma Net 50 24V

The Enigma Net 50 is made up of 512 LED pixels. The connection starts at the lower bottom right and snakes it way across to the lower left side. Each string of the net has a male and female mounting connection allowing you to connect one net to the next. From this same string you can also connect Fly adapters that will allow you to connect to a truss or pipe for mounting.

## EN-DS—Enigma Net Drive System

The Enigma Net Drive System is a interface device that will convert the signal that is coming out of your PC's DVI output. Into a signal that can be sent to the Enigma Net Sub Drive Box

## EN-PD12—Enigma Net Sub Drive System

The Enigma Net Sub Drive System will connect to the Enigma Drive System via Ether Conn Cable and send signal to the next Sub drive box. Each Sub Drive Box can control

- 6-EN-50 Enigma Net 50
- 12-EN-75 Enigma Net 75
- 48-EN-150 Enigma Net 150

## EN-PD24—Enigma Net Sub Drive System

The Enigma Net Sub Drive System will connect to the Enigma Drive System via Ether Conn Cable and send signal to the next Sub drive box. Each Sub Drive Box can control


- 12-EN-50 Enigma Net 50
- 24-EN-75 Enigma Net 75
- 96-EN-150 Enigma Net 150

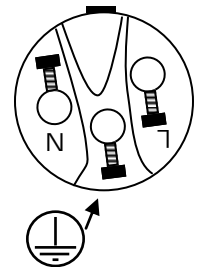
# Power Cable Connection

**Caution!**

1. Do not connect Enigma Net Power supplies to a Dimmer System
2. This unit must be earthed. (electronically grounded)
3. Replace fuse only with the specified type and rating.

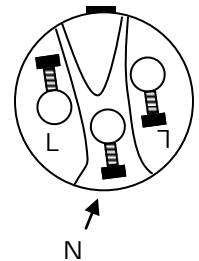
110V Connection

Cable (USA)	Cable (EU)	Pin	Connection
Black	Brown	Live	L
White	Light Blue	Neutral	N
Green	Yellow/Green	Ground	



220V Connection

Cable (USA)	Cable (EU)	Pin	Connection
Black	Brown	Live	L
White	Light Blue	Live	L
Green	Yellow/Green	Neutral	N

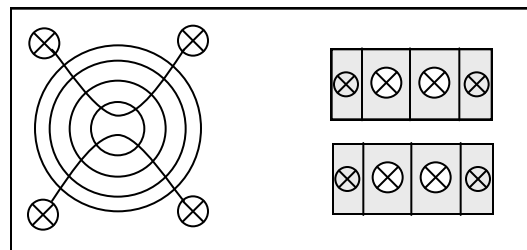
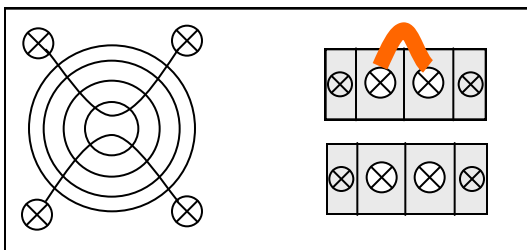


**Caution!**

Power must be internally switched to desired setting.

For 110V operation the bridge must be in place

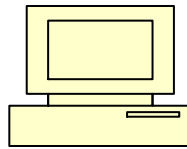
For 220V operation the bridge must be removed



# Signal Cable Connection

The fixture is equipped with panel mount Neutrik Ether Conn Connection (RJ-45) for signal input and output.

# Wiring Instructions

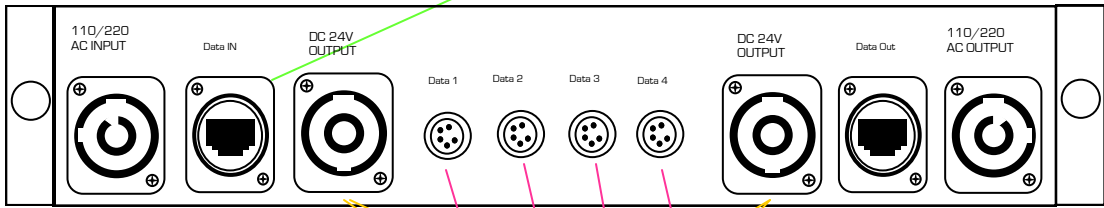


Install software prior to connecting USB cable

Image must come from a digital source not from a converted adapter



EN-DS

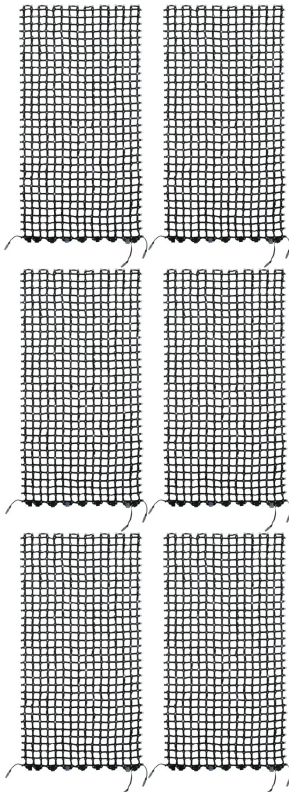


EN-PD12

110/220 AC INPUT

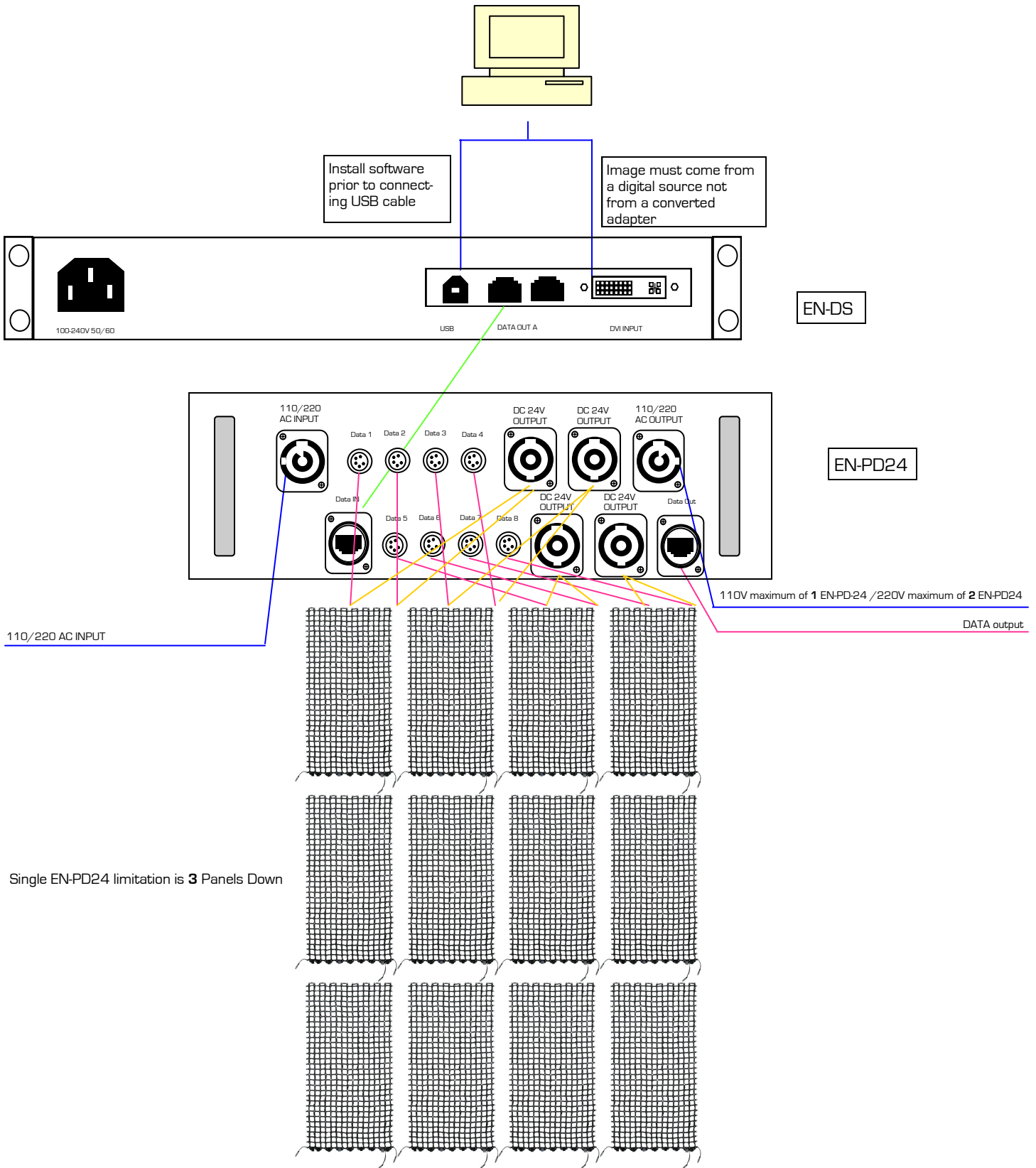
110V maximum of 3 EN-PD-12 / 220V maximum of 6 EN-PD12

DATA output

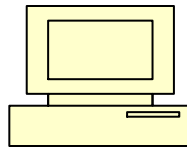


Single EN-PD12 limitation is 3 Panels Down

Single EN-PD12 limitation is 2 Panels Across

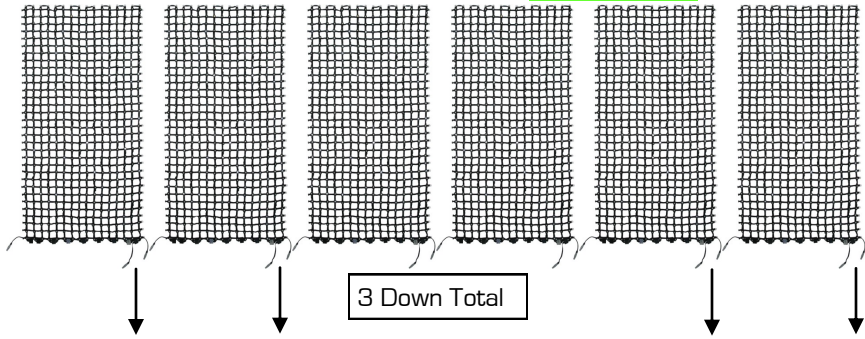
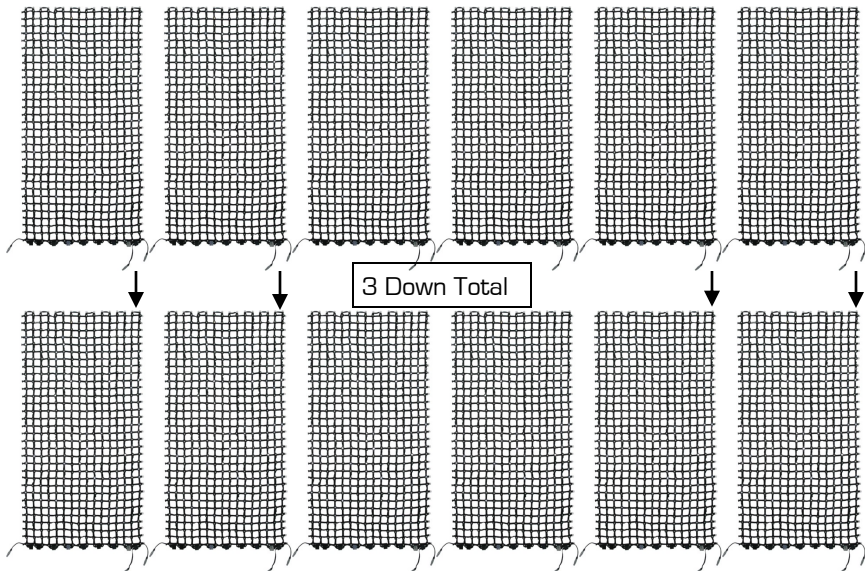
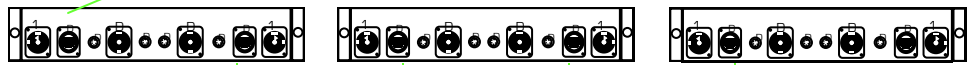


# Multiple Unit Installation



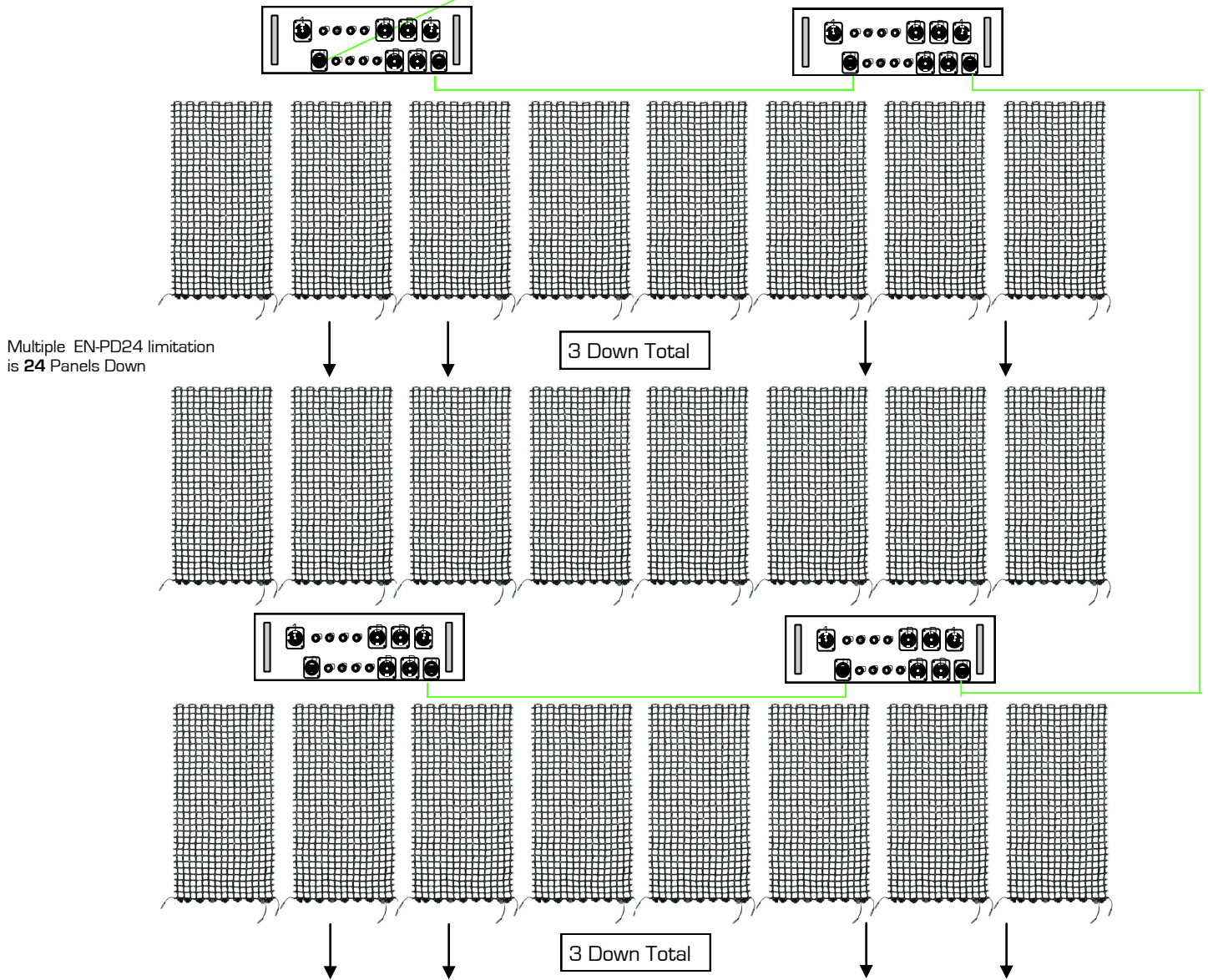
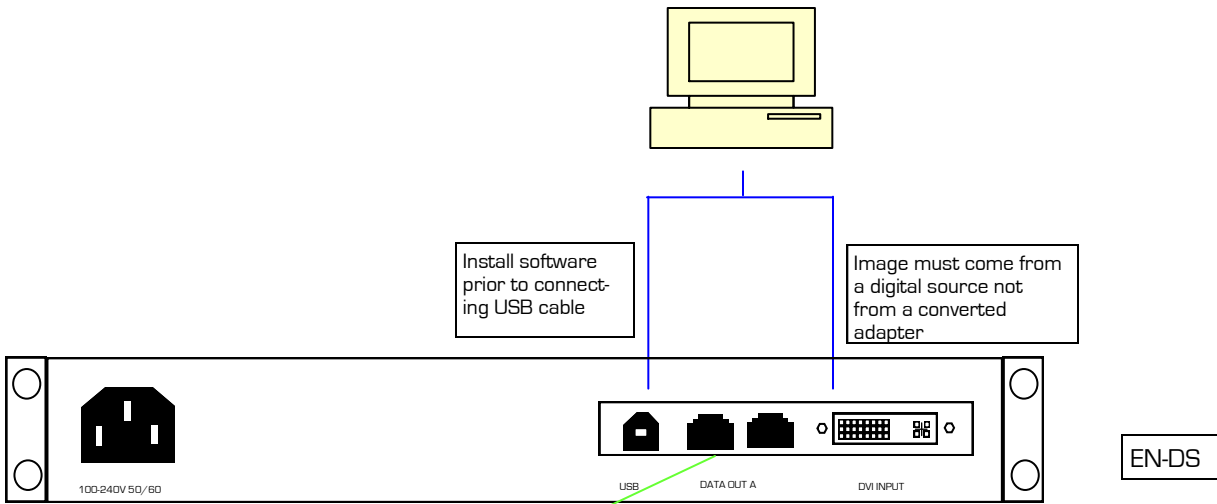
Install software prior to connecting USB cable

Image must come from a digital source not from a converted adapter



Multiple EN-PD24 limitation is **24** Panels Down

Multiple EN-PD24 limitation is **64** Panels Across



Multiple EN-PD24 limitation is **64** Panels Across

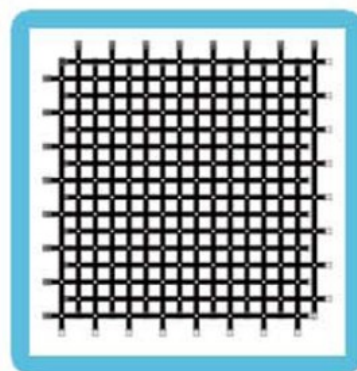
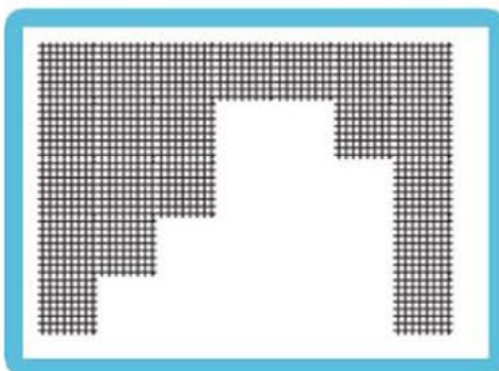
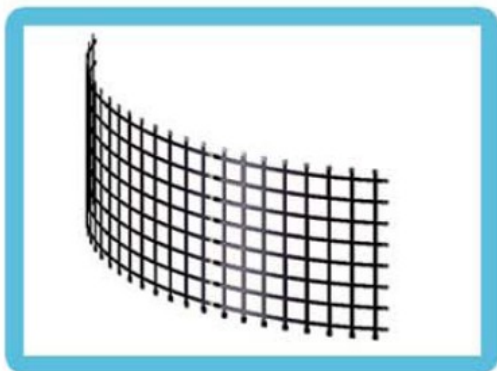
## Rigging the fixture

### Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injuries if you have doubts concerning the safety do not install.
3. Unit is to be 24 inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

1. When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

2. When rigging the unit always be secured with a secondary safety attachment. The installation location of the projector has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.



# Maintenance

**Installation Maintenance:** The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every 2 years.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.
- 4) Make sure the fans are not blocked from air flow.
- 5) Make sure signal cables and Enigma Net Driver and EN-PD12 are not placed near any magnetic interference.

## Disconnect from mains before starting maintenance operation!

*Caution Danger to life!*



Electrical

We recommend a frequent cleaning of the device. Please use a moist, lint free cloth. Never use alcohol or solvents!

- 1) The objective lens will require periodic cleaning on usage and environment. Environment with foggers will require more periodic cleaning as fog fluid tends to build up residues, reducing the light output.
- 2) The cooling-fans should be cleaned monthly. DO NOT blow high pressure air into fans as incorrect rotation can damage the fans operation.

**Note:** There is no serviceable parts inside the device except for the lamp and the fuse. Maintenance and service operations are to be carried out by authorized dealers.

**Replacing the power cable:** If the power cable of this device becomes damaged, it has to be replaced by authorized dealers only in order to avoid hazards.

Should you have further questions , please contact your dealer.

## Parts List

EN-DS	Enigma Net Driver
EN-PD12	Nets Power Supply & Driver 12
EN-PS	Power Supply
EN-DR	Driver Card
EN-SE	Sending Card
EN-DRPS	Links Driver Power Supply
EN-C-DA-3	3 Foot Data Cable ODU Connection
EN-C-DA-13	13 Foot Data Cable ODU Connection
EN-C-PW-5	5 Foot Power Cable Neutrik to ODU
EN-CPW-13	13 Foot Power Cable Neutrik to ODU

EN-MOD	Nets Replacement LED module
EN-FC50	50mm Flying Clip Adapter



Mega-Lite  
5718 Kenwick St  
San Antonio, TX 78238  
Ph 210-684-2600 Fax 210-855-6279  
[www.mega-lite.com](http://www.mega-lite.com) / [info@mega-lite.com](mailto:info@mega-lite.com)