



# Twilight Manual Series

## Outdoor Manual Pull-Down Projection Screen

### User's Guide

*Thank you for choosing the **Twilight Manual** projection screen! Please read through this user guide before utilizing the screen. Correct usage and maintenance will ensure a long product life*

#### Product Description:

The **Twilight Manual** is a non-electric outdoor projector screen for wall and patio installations that brings media room quality to your outdoor spaces. Its sleek aluminum casing beautifully accessorizes your backyard, patio, pool deck or anywhere a gathering for evening movie time is appropriate.

#### Outdoor Projection Screen Disclaimer

Never leave your projection screen out and exposed to direct sunlight. Regardless of screen brand, prolonged exposure to the sun's ultraviolet radiation degrades the chemical bonds causing the material to ultimately decompose. Photodegradation first causes the material to lose its theater-grade reflective qualities. Eventually nature will completely destroy even synthetic materials. For this reason, the **Twilight Manual** has a retractable design that allows the material to be drawn up into its protective casing to be shielded from solar radiation.

#### Care & Use Instructions

◆ Dust, dirt and scratches on the projection surface will affect the picture quality, please take note of the points below to prevent that from occurring:

1. Do not touch the projection surface with your hands
2. Do not write or draw on the projection surface
3. Do not use fingers or sharp objects to point on the projection surface; this will damage the screen material.
4. Use a soft-damp cloth to clean the projection surface; do not use chemical cleaning agents or alcohol.
5. Use clean water when dampening the cleaning cloth and do not rub against the material to clean it.

◆ To avoid damage and injury, the screen should only be operated by adults.

#### Pre-Installation

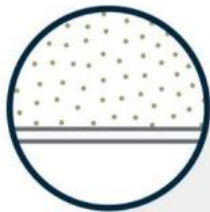
1. Carefully unpack the screen.
2. Always handle the screen in a leveled position on a clean surface.
3. To protect the screen from exposure to stains, keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.

## Understanding the Ingress Protection Rating IP65

# IP Rating Chart

### 1st Digit - SOLID

Degree of protection against solid objects



Dust tight.  
No ingress of dust.

# 6

### 2nd Digit - LIQUID

Degree of protection against water



Protected against  
water jets from any  
angle.

# 5

### NOTE

*Wall screws included with this product are complimentary and may not be adequate for all mounting surfaces. Consult with a professional installer or hardware store for proper mounting screws and anchors.*

Regardless of the mounting method, the screen should be securely supported so that the vibration or pulling on the viewing surface will not cause the casing to become loose or fall. The installer must ensure that the fasteners used are of adequate strength and suitable for the installation location.

### Hardware Parts List for Twilight Manual Series

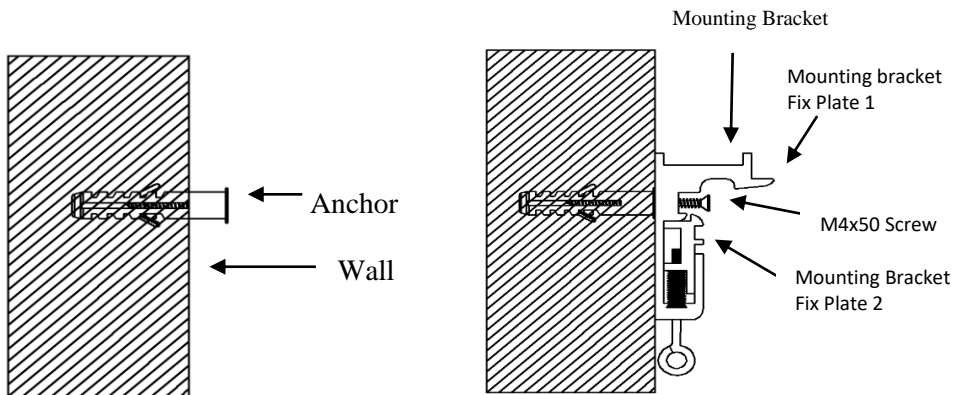
A. Mounting Bracket x2pcs	B. M10 Anchor and M4x50 Screwx4pcs	C. M10 Anchor and M5x50 Screwx1pcs	D. Suspended Ceiling Bracket Connectorx2pcs
E. M5x15 Screw & Bolt x4pcs	F. Ground Stake x2pcs	G. Carabiner x2pcs	H. Elastic Stringx2pcs

# Installation Instructions

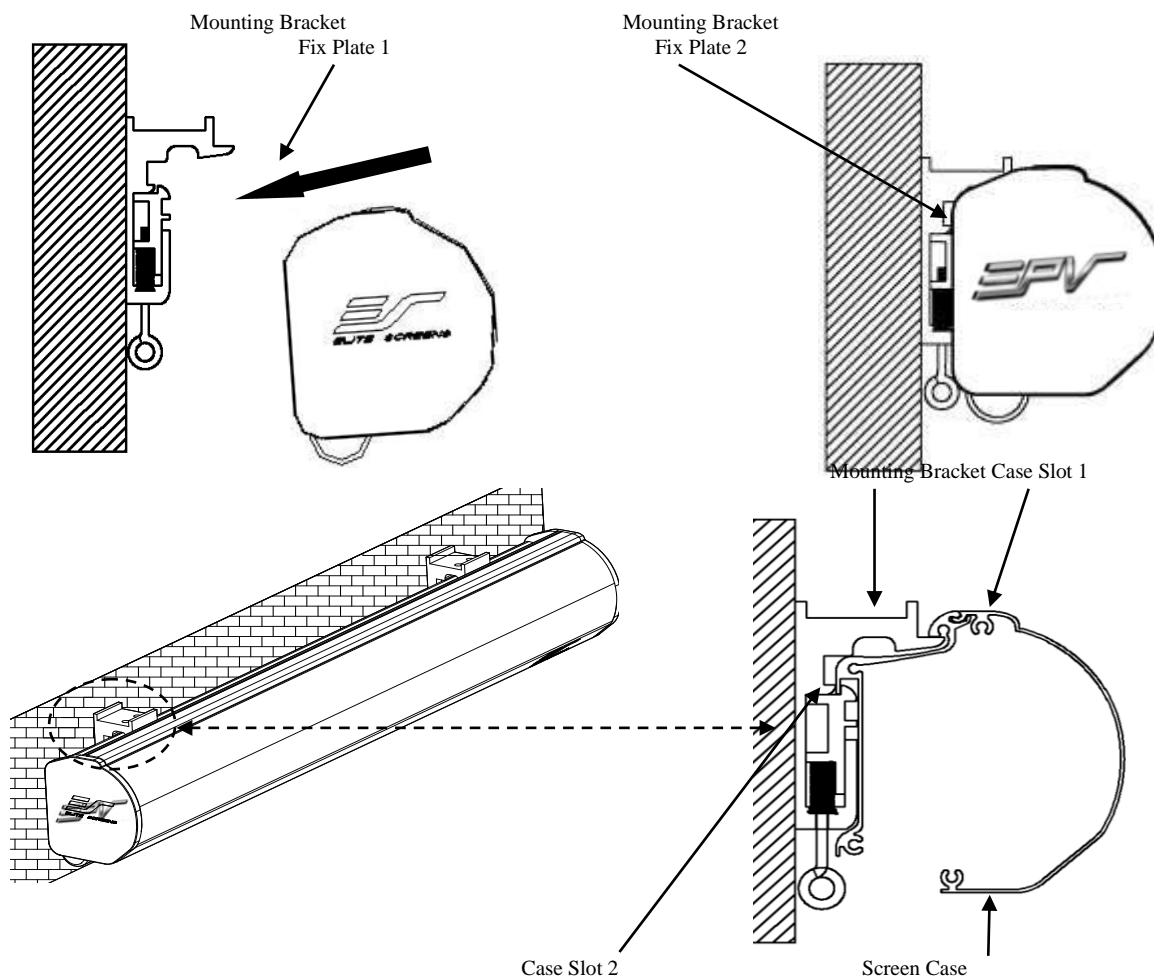
Please consult a professional installer, EPV Screens is not liable for faulty installations.

## Flush Mount to the Wall

1. Mark the location of where the screen is to be installed, drill your holes and insert the **M10 Anchors (B)**.
2. Install the **Mounting Brackets (A)** to the wall and secure with the **M4x50 Screws (B)**.

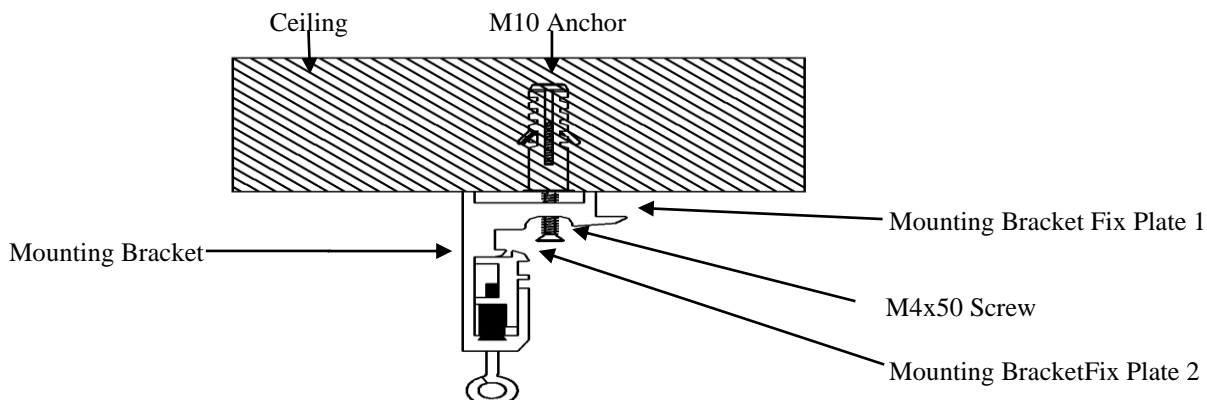


3. Attach the screen to the **Mounting Brackets (A)** by inserting the top of the case to Fix Plate 1 and securing the back of the case to Fix Plate 2. Make sure the case slots are securely attached to the mounting brackets.

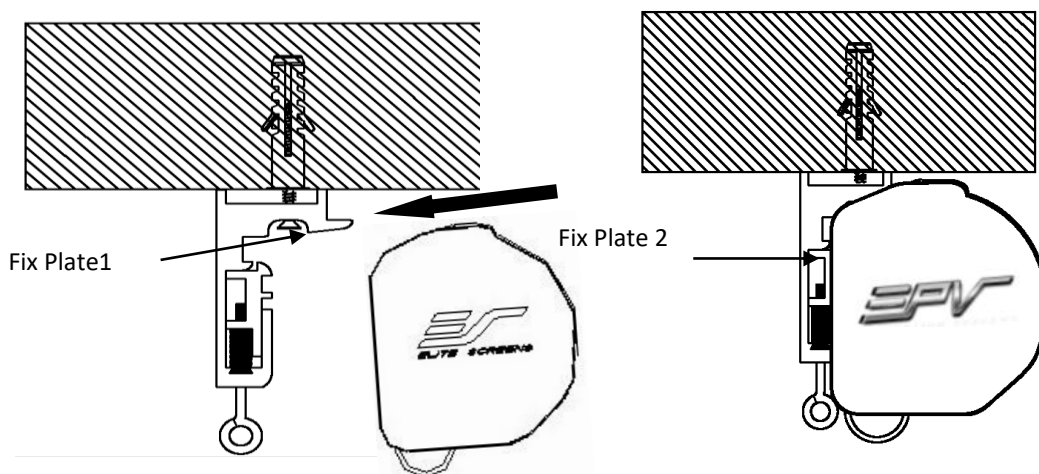


## Flush Mount to the Ceiling

1. Mark the location of where the screen is to be installed, drill your holes, and insert the **M10 Anchors (B)**.
2. Install the **Mounting Brackets (A)** to the ceiling and secure with the **M4x50 Screws (B)**.

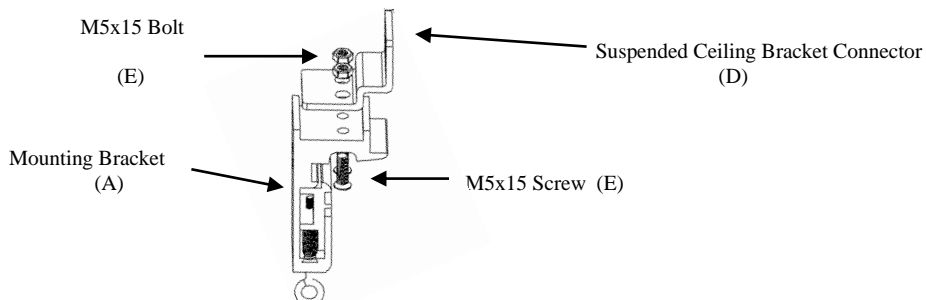


3. Attach the screen to the **Mounting Bracket (A)** by inserting the top of the case to **FixPlate 1** and securing the back of the case to **Fix Plate 2**. Make sure the case slots are securely attached to the **Mounting Bracket (A)**.

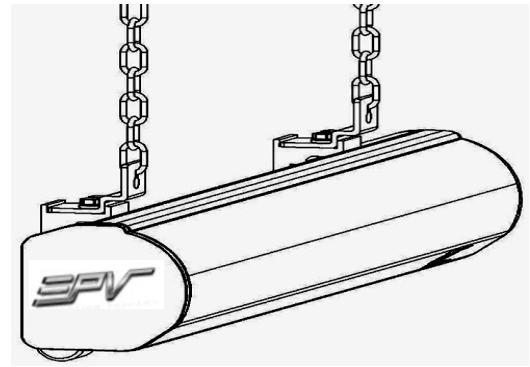
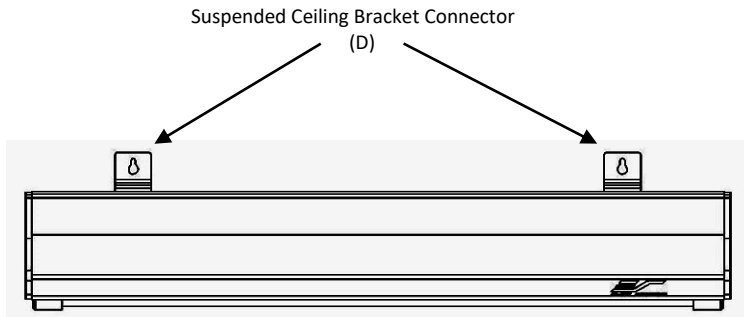


## Suspended Ceiling using Chains (additional hardware required)

1. You can also hang the screen on a ceiling by using chains (not included).
2. Connect the **Suspended Ceiling Bracket Connector (D)** to the **Mounting Bracket (A)** and secure with the **M5x15 Screws & Bolts (E)**.

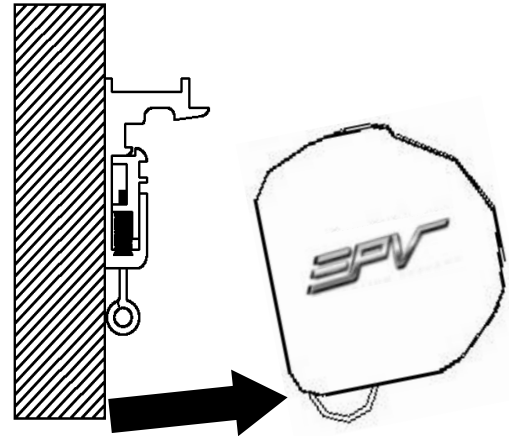
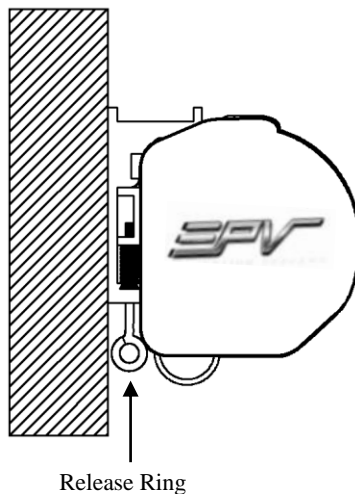


3. Insert chains (not included) through the holes of the **Suspended Ceiling Bracket Connector (D)**.



## **Screen removal from the Mounting Brackets**

1. Pull down on the Mounting Bracket Release Tab and remove the bottom case away from the wall/ceiling followed by the top of the case.

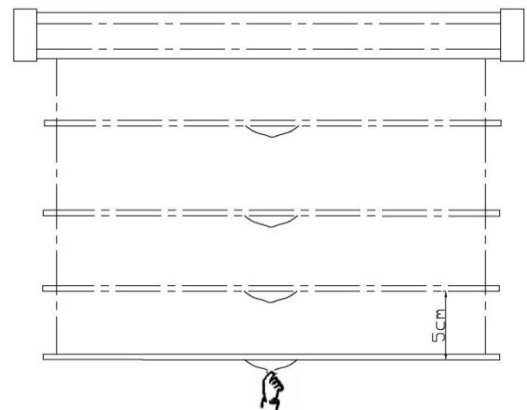


Pull bottom of case first away from wall/ceiling

## **Screen Operation**

1. Pull the screen down from the lanyard or from the handle only in a 90-degree angle. The screen is designed to stop at any location. To achieve this, make sure to pull straight down and allowing the screen to come up to lock into place. **Do not attempt to pull the screen down by the surface or touch the screen, as it will damage the screen and void the warranty.**

2. To retract the screen, simply pull the screen down more than 2 inches and retract the screen back releasing it up gently. The screen is equipped with a **SLOW RETRACT MECHANISM** which allows the screen to slowly retract without the need to hold on to the handle or lanyard. Simply release the handle and the screen will retract by itself into the housing.



**Attention:** If the screen does not unlock, carefully pull the screen straight down with a little force. Always pull the screen down at a 90-degree angle.

## Slow Retract Mechanism Temperate Limitation

Please be aware that temperature changes will affect the Slow Retract Mechanism (SRM) operation/speed. Below are the expectations of the SRM based on the temperature in your outdoor environment.

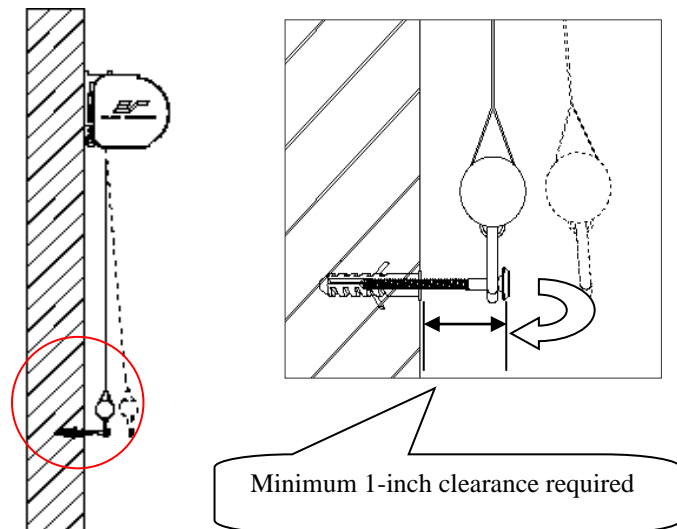
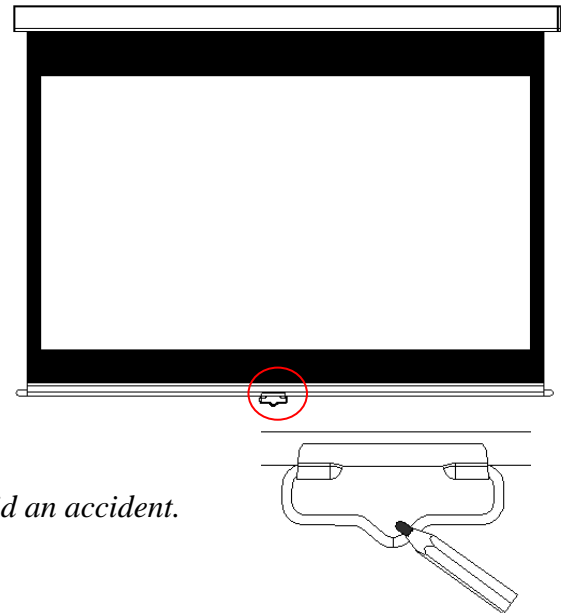
**Note: If the screen does not fully retract entirely on its own, it is not a defect but just a limitation on the SRM operation. Please use the handle to manually retract it by pulling it down and gently guiding it back inside the housing.**

Temperature	SRM operation	Speed
Subzero 0° C (below 32° F)	No	Does not work
0° C (32° F)	Yes	30-180 seconds
Above 15° C (59° F)	Yes	Within 30 seconds

## Securing the weight bar location

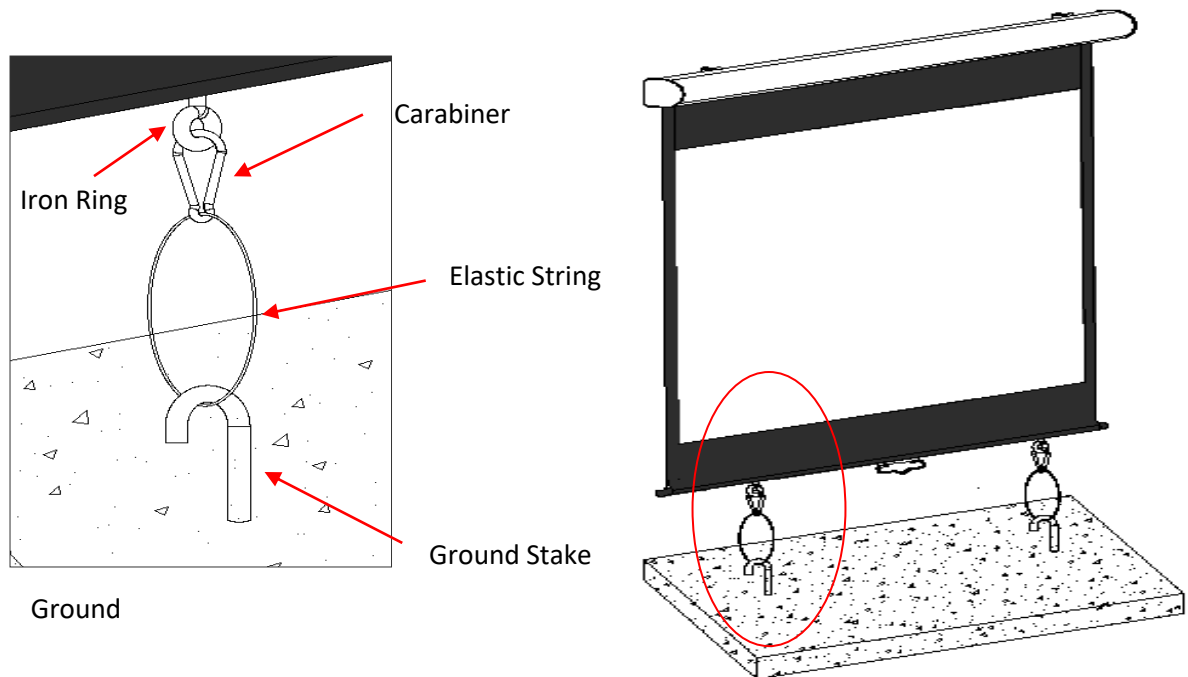
1. Pull the screen down until you have reached the desired location.
2. Mark the drill-hole area of where the screw is to be installed, then retract the screen.
3. Drill the hole and insert a **M10Anchor (C)**, secure it with an **M5x50 Screw (C)**. Allow a 1-inch gap between the wall and screw head to allow room for the weight bar and pull handle to release freely.
4. Pull the screen down and secure it to the screw location. Make any adjustments if there are any deviations.

**Note: Remove the screw when not in use any longer to avoid an accident.**



## How to ground the screen

1. Attach the *Carabiner (G)* into the Iron Ring, and join the *Carabiner (G)* and *Ground Stake (F)* using the *Elastic String (H)*.
2. Drive the *Ground Stake (F)* into the ground and stretch the *Elastic String (H)* in the direction of the *Ground Stake (F)* to secure screen to the ground and supply adequate tension to the screen.



For more information, technical support or your local EPV Screens contact,  
please visit [www.epvscreens.com](http://www.epvscreens.com)