

Thank you for purchasing a Screen Technics AV Lifter and please ensure to read the instruction fully before proceeding to install the unit.

GENERAL ADVICE

- The Interfit AV Lifter is a fully integrated unit that is designed to be installed above the ceiling line of the room and utilises bottom ceiling edge trim pieces to create a neat finish against the ceiling material cut-out.
- No plaster or paint trades are required for this standard installation.
- All electrical and control equipment is contained in the ceiling space. A standard 3 pin GPO for power supply is required.
- Review the cut-out dimension fact sheet attached to the top lid of the unit, as model sizes vary throughout the range.
- Before proceeding ensure that you have enough in-ceiling height to fit the unit. And that your model lifter will accommodate the projector that is specified for the project.
- Make sure you have reviewed the Lens Throw Distance Chart provided with the projector so that the Lifter will be the correct distance from the projection screen and to allow for any sideways lens off-set to achieve a perfect result.

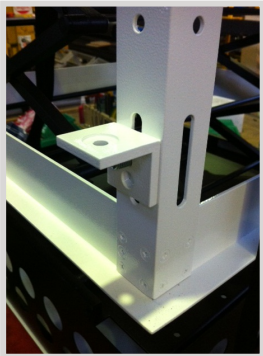
INSTALLATION ADVICE

- Having decided on the position of the Lifter you must now cut the ceiling material to the stated cut-out dimension. We recommend that you divide the cut-out in two and remove one half at a time to prevent torn edges.
- Every above ceiling environment is unique and therefore there is no singular approach to securing the unit within the ceiling space. Following are some accepted install practices.



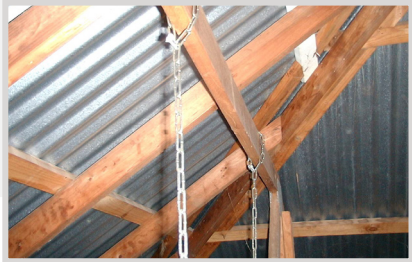
PLEASE NOTE: If the ceiling environment is going to be sealed without man-hole access up into the roof, then for later service removal, it is important to use the elongated vertical slots on the lower half of the frame uprights to secure the supplied angle brackets.

This will allow (with some difficulty) removal of the device from below if mechanical failure occurs.



CHAIN AND TURNBUCKLE

STEP 1. Secure the chain to a suitable structure, such as overhead timber beams, or dyna-bolted to an overhead concrete slab.



STEP 2. A minimum of 4 points to secure the chain is required and it is the installers responsibility to ensure the chain turnbuckle system chosen is strong enough for the safe installation of the unit.

STEP 3. Secure the chain to a suitable structure, such as overhead timber beams, or dyna-bolted to an overhead concrete slab.

STEP 4. Now raise the unit into the ceiling, hold in position from below while a second person secures the other end of the chain to the lifter using the supplied BLACK angle brackets and tighten the turnbuckles till the units ceiling edge trims are firmly pressing against the underside of the ceiling material.

STEP 5. Lock off the turnbuckles.

ALL-THREAD BROOKER ROD

STEP 1. Secure 4 x brooker rods to a suitable overhead structure with a proprietary loxin system designed to accept threaded rod.

STEP 2. Space around the outside corner dimensions of the unit.

STEP 3. Wind a set of nuts up the rods above the installation height and then insert the rods through the supplied angle brackets, now attached to the lifter unit.

STEP 4. Now wind on a set of nuts under the bracket till the ceiling edge trims are firmly pressing against the underside of the ceiling material, then wind the upper nuts down onto the angle brackets to lock off unit.

Installations are best achieved by have access into the roof space but this is not always possible, and in these instances we advise the following practices:

INSTALLING FROM BENEATH THE CEILING LINE

STEP 1. Connect power in a safe manner to the unit and support the lifter so you can motor the projector cage lower than the ceiling edge trims and you will see 6 Allen key bolts holding the cage assembly to the unit. Remove these and set aside the cage unit.

STEP 2. Remove the projector mounting plate by removing the 2 Allen key bolts at the front under side of plate and pull the forward to remove from the lifter assembly.

STEP 3. Motor the remaining assembly to the full up position (watch out for your fingers...) and you now have room to access the interior of the unit.

STEP 4. Inspect the 8 installation slots running up the corner frame uprights. These are used to secure the device to some suitable structure from below the ceiling line.

STEP 5. Either add some timber in the ceiling along two sides to coach bolt into place or suspend from threaded rod or some suitable angle brackets.



STEP 6. Raise the unit into the ceiling, fit the screws or bolts (as appropriate to selected method) and apply upward pressure to the unit so the ceiling edge trims are pressed firmly against the underside of the ceiling material and tighten off the screws or bolts.

STEP 7. Motor down the mechanism and refit the projector plate and cage assembly.

PLEASE NOTE: When utilising the above method of installation from beneath the ceiling, it is best to use a method of fixing to any structure that will allow you at a latter date to remove the lifter for any future servicing issues, without the need to break into the ceiling – please consider this issue before deciding on the best installation method.

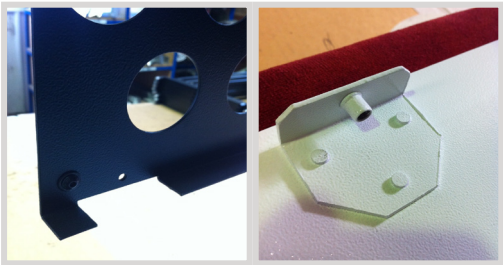
PROJECTOR INSTALLATION

STEP 1. This unit comes with a blank projector mounting plate that requires you to mark out the mounting holes and drill where appropriate.

STEP 2. Removal of the plate for drilling and fitting is achieved by undoing the 2 off Allen key bolts along the front underside edge of the mounting plate, and pulling the plate forward.

STEP 3. These 2 off Allen key bolts will later be the adjustment method used for yaw or side to side alignment of the projector, with the threaded adjustment winder used for pitch or up and down adjustment of projector.

STEP 4. For ease of adjustment and cable fitting the ceiling plate can be removed from the projector shroud assembly by undoing the 6 x Allen key bolts that surround the ceiling plate from the outside perimeter of the shroud, as below.



**CABLE MANAGEMENT
FOR UNITS WITH 200MM TO 600MM TRAVEL**

STEP 1. The rear of the projector mounting plate has a cable management access hole that allows you to run cables through and into the cable management channel.



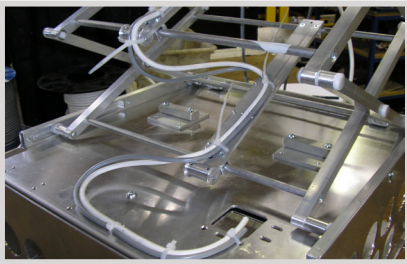
STEP 2. Lay out the required cables and lock them into position utilising cable ties in the small regular holes running up the channel.

STEP 3. Be sure to allow enough slack in the cables at every hinged elbow point so the cables don't interfere with the travel of the lifter.

STEP 4. Exit cables through the supplied opening on top of the unit.

**CABLE MANAGEMENT
FOR UNITS OVER 600MM TRAVEL**

STEP 1. On units with longer travel a second type of cable management is required.



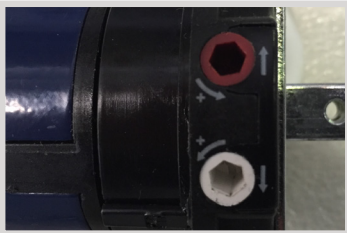
STEP 2. Above the projector mounting position is an access hole for the cables and various cable tie mounting holes, please see the picture below this text.

STEP 3. This allows the cables to run up the centrally mounted cable run planes, to the mid section of the plane, where the cable tie holes cease.

STEP 4. This is the point where you stop and run to the front of the upper cable run plane, leaving enough slack in the installation for so cables don't pinch or stretch.

**LIMIT SETTING FOR INTERFIT PROJECTOR LIFTS WITH
CONNECT - MODEL C (550MM CUTOUT)**

The following instructions are for the adjustment of the limit switches that alter the upper and lower stop positions on Interfit Projector Lifts with 300mm of travel or longer



WHERE ARE THE LIMIT SWITCHES?

At the same end to the power cable (Right Hand Side). One switch is accessible either when the lift is down or when the side cover is removed

WHICH SWITCH IS FOR UP AND DOWN?

Up switch – Bottom Limit (WHITE) The one closest to the front of the lifter
Down switch – Top Limit (RED) The one to the rear of the lifter

WHAT TOOLS DO I NEED?

Either the limit setting tool (supplied), a narrow tip screw driver (less than 4mm) or a 4mm Allen Key

WHICH WAY DO I TURN THE SWITCH?

Anti Clockwise always increases the amount of rotation (travel) of the motor. (More)
Clockwise always reduces the amount of rotation (travel) of the motor. (Less)

Pick the switch responsible for the limit position, up or down. **Anti-Clockwise turning of the limit switch will always let the motor travel further in that direction. Clockwise turning of the limit switch will lessen the amount of travel in that direction.**

CAN I ADJUST THE SWITCH WHILE THE SCREEN IS SITTING ON THE LIMIT - IE FULLY UP OR DOWN?

Always back the lifter away from the limit and then adjust if you require less rotation.
After adjustment, you will need to run the lifter up and down to pick up the new limit.

WILL I VOID THE PRODUCT WARRANTY IF I DAMAGE THE LIFTER WHILST MAKING THESE ADJUSTMENTS?

Yes, it is possible.

Should you have any questions regarding the installation of our products please call our sales desk on +61 2 4869 2100 for assistance

LIMIT SETTING FOR INTERFIT PROJECTOR LIFTS WITH CONNECT MODEL D (650MM CUTOUT) & MODEL F (800MM CUTOUT)

The following instructions are for the adjustment of the limit switches that alter the upper and lower stop positions on Interfit Projector Lifts with 300mm of travel or longer on the motor shown, with a White and Red limit switch



WHERE ARE THE LIMIT SWITCHES?

At the same end to the power cable (Right Hand Side). One switch is accessible either when the lift is down or when the side cover is removed

WHICH SWITCH IS FOR UP AND DOWN?

Down switch Bottom Limit (WHITE) – The one closest to the rear of the lifter

Up switch Top Limit (RED) – The one closest to the front of the lifter

WHAT TOOLS DO I NEED?

Either the limit setting tool (supplied), a narrow tip screw driver (less than 4mm) or a 4mm Allen Key

WHICH WAY DO I TURN THE SWITCH?

Top Limit Red – Turn Clockwise for more rotation of motor (towards the +) – If less rotation is required turn limit Anti Clockwise (away from the +)

Bottom Limit Red – Turn Clockwise for more rotation of motor (away from the -) – If less rotation is required turn limit Anti Clockwise (towards the -)

CAN I ADJUST THE SWITCH WHILE THE SCREEN IS SITTING ON THE LIMIT - IE FULLY UP OR DOWN?

Always back the lifter away from the limit and then adjust if you require less rotation

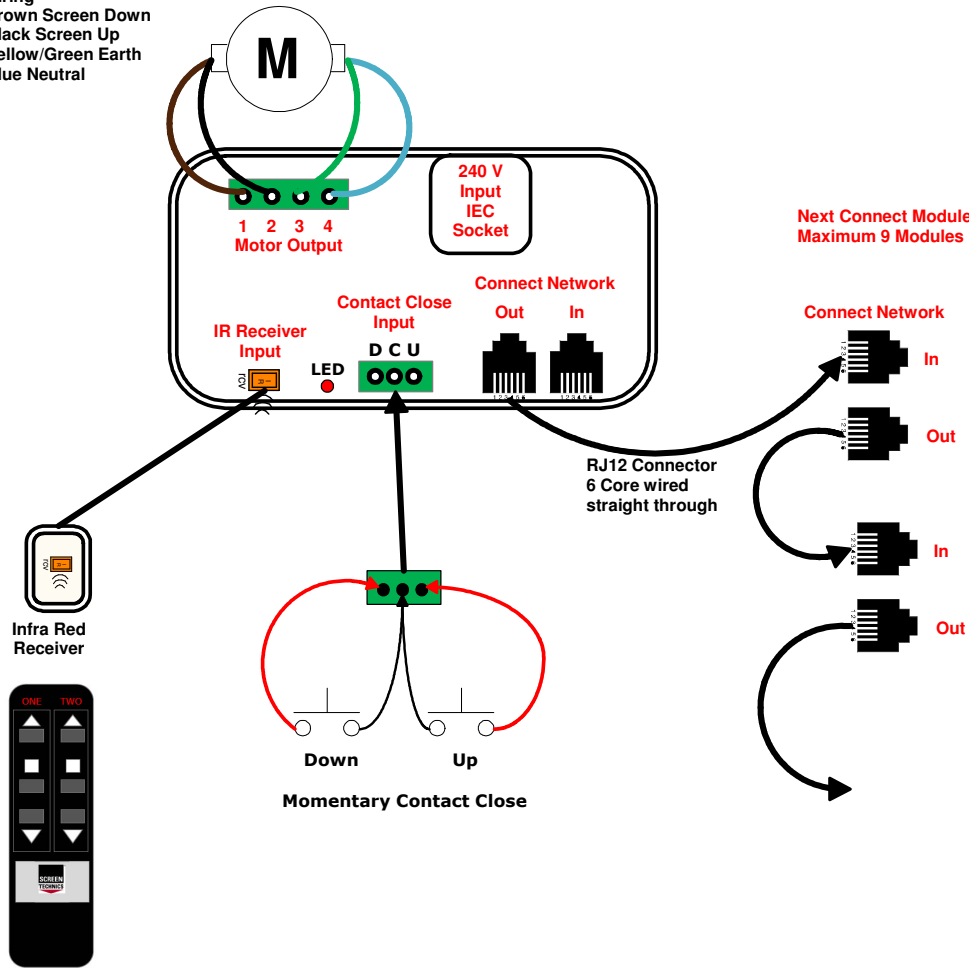
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240 Volt Motor Controller for
4 Core Projection Screens, AV Lifters and Motorised Blinds

Motor Wiring
Pin 1 - Brown Screen Down
Pin 2 - Black Screen Up
Pin 3 - Yellow/Green Earth
Pin 4 - Blue Neutral



240 VOLT MAINS CONNECTIONS

- The iConnect motor controller is supplied with a 240 V IEC power lead for connection to a standard GPO.
- The 240 V output to the 4 core motor is via the supplied WAGO connector.

PIN WIRING CONFIGURATION

- Pin 1 Brown (Motor Down)
- Pin 2 Black (Motor Up)
- Pin 3 Green/Yellow (Earth)
- Pin 4 Blue (Neutral)

POWER ON INDICATOR (NEXT TO IR INPUT)

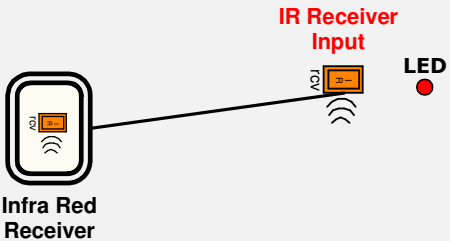
- When LED is Green, indicates mains 240V present and iConnect module is on.
- When LED is Red, indicates that iConnect module is in program mode.

IR Receiver Input



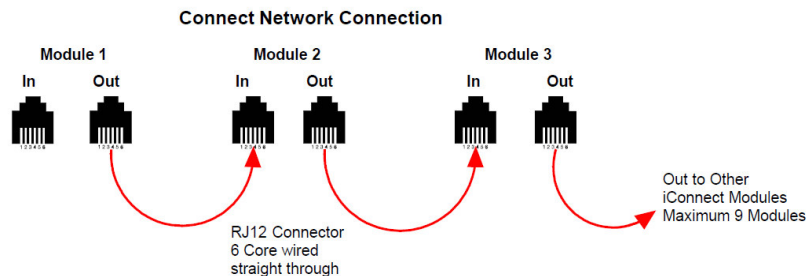
FOR INFRA RED OPERATION YOU WILL REQUIRE (SUPPLIED SEPARATELY)

- Screen Technics 2 Channel infra red transmitter (Product Code 6500101)
- Screen Technics Connect infra red sensor (Product Code 6500102 Length 300mm) or (Product Code 6500103 Length 2000mm).
- Infra red receiver is connected to the IR receiver input on iConnect module.
- Factory standard infra red operation is infra red channel one (1).
- For individual infra red channel control (up to 9 Infra Red Channels) can be programmed via the 6 button infra red transmitter if required. (Contact Screen Technics for details)



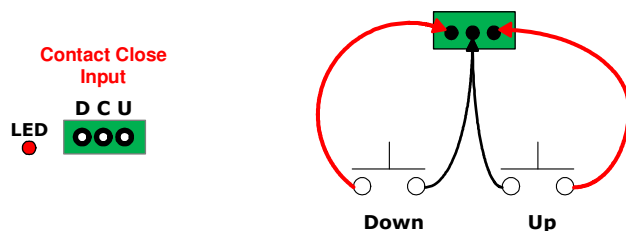
CONNECT NETWORK CONNECTION

- The connect network allows for the connection of up to nine (9) iConnect 240V or 24V modules.
- Connection between modules is via a RJ12 6 Core cable wired straight through.
- Connection is made by connecting from the RJ12 connect network out to the RJ12 connect network in.
- A 10 metre RJ12 Connect daisy chain cable is available (Product Code 6500104).



CONTACT CLOSE INPUT

- Requires two (2) contacts - one for up command and one for down command.
- Contact operation is momentary dry contact, command is sent when contact is reopened (Lagging Contact)
- Contact close input is local only, can be parallel wired to other modules for multiple control.
- Contact close can be reprogrammed to single latched mode by using the 6 button infra red transmitter if required. (Contact Screen Technics for details)
- Two button impulse switches are available (Product Code 3500998)



INTERFACING WITH THIRD PARTY CONTROL SYSTEMS

The iConnect module can be connected to the iReply (Product Code 6500300) interface via the connect network to provide

- RS232 control
- RS485 Control
- TCP/IP Control
- USB Control

(Contact Screen Technics for details.)

FACTORY RESET PROCEDURE

Should you experience problems with the operation of the iConnect module at the time of installation, a factory reset can be initiated to confirm operational integrity of the iConnect module.

- Infra Red receiver must be connected to the iConnect module
- Disconnect module from mains power for 20 seconds
- Reconnect module to mains power.
- LED on iConnect module will change from green to red (module is now in program mode).
- Using the 6 button infra red remote push buttons in the sequence of:
 - **Stop 1 - Stop 1 - Stop 2 - Stop 2 - Stop 1 - Stop 1**
 - To confirm that the reset was performed the projection screen, AV lifter or roller blind will jiggle up and down. The module is now reset to factory standard (Infra red operation is group one (1) and contact close is momentary operation).

REGULAR MAINTENANCE

Screen Technics lifters are designed to provide many years of trouble free operation. If the unit ever does anything abnormal or has been affected by an outside event the unit should be isolated and advise requested from Screen Technics (Phone 02 4869 2100).

When servicing the projector / changing globes we suggest carrying out the following (around every 12 months).

1. Check for any signs of rubbing or wear on the lifter chassis and any cabling.
2. Check that the top and bottom limits stop the unit in the proper position.
3. Run the lifter up and down in a quiet environment to listen for any unusual noise or movement.
4. Check the fall arrestor, if fitted, operates as designed (give the belt a sharp tug to ensure it locks correctly and then release it) This works on the same principle as a seat belt in a car.
5. Check that the projector is still securely mounted within the lifter.
6. Check that the lifter is still securely mounted to the building structure.
7. When raising and lowering lift it is recommend that no person is directly below the lift.

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