

PRODUCT USAGE RISK ASSESSMENT



BASIC RISK ASSESSMENT DETAILS AND EXAMPLES FOR
INSTALLED FUTURE AUTOMATION PRODUCTS

RISK ASSESSMENT OVERVIEW

Basic Risk Assessment Information

It is the installer's responsibility to perform a risk assessment of installed products.

Future Automation can provide guidelines to installers/dealer about what should be included in a risk assessment, but due to the individual nuances of each location/site, Future Automation cannot provide a full list of areas to risk assess.

Risk assessments should be carried out at yearly intervals from the date of installation to ensure that the installed product remains safe for end users. These additional risk assessments should coincide with the required yearly servicing of the product.

The assessment should also outline any risks to **ALL** potential end users (Eg. All members of a household).

A physical copy of all risk assessments performed by the installer should be supplied to the end user, along with these this document and the completed Warranty Sheet, to ensure that they are fully aware and understand any dangers that are outlined in their risk assessment.

It is important that everyone who is to connect, install or use a Future Automation product has had the necessary information and access to the product instructions / user manual.

Future Automation products should not be operated by infirm persons or children under the age of 16 without supervision.

The following pages outline the basic objective of a risk assessment and are guidelines to installers/dealer about what should be included in their own risk assessment, but due to the individual nuances of each location/site, Future Automation cannot provide a full/complete list of areas to risk assess.

It is the installers responsibility to perform this risk assessment, taking into account every aspect of the job/site.

Your written risk assessment is to ensure the user is informed about potential risks surrounding Future Automation products and how to avoid them during day to day usage.

RISK ASSESSMENT OVERVIEW

Risk Assessment Objectives:

- [Identify the hazards](#)
- [Decide who might be harmed and how](#)
- [Evaluate the risks and decide on precautions](#)
- [Record your significant findings](#)
- [Review your assessment and update if necessary](#)

Guidelines for performing Risk Assessments:

Acting out various movements a user could potentially perform while manipulating their product and making an informed assessment of these movements can aid in understanding the risks associated with the product for an end user. These can include manually adjusting the swivel on a manual bracket, or changing pre-sets on the remote for an automated mount.

As the installation of our products vary drastically between locations we are unable to provide full risk assessments for every product installation scenario. However, we have included a list of points that are relevant in a majority of use cases. The information provided is a guideline and it remains the installer's responsibility to provide a detailed risk assessment. Failure to do so can result in injury or death.

Does the product include a motorised component?

If so, here are some common risks associated with the installed product.

- Tripping and falling over mechanism.
- Hitting body part on mechanism when walking past.
- User(s) falling into cavity occupied by mechanism.
- Animal climbing into mechanism during use.
- Crushing / trapping by the mechanism while operating.
- Accidentally pressing a control button on the remote or mechanism.
- Children playing with remote control, and/or mechanism.
- Electric shock from product cabling / control box wiring.
- Foreign objects or liquid ingress can result in fire.
- Remote control encountering liquid could cause short circuit.
- Risk of crushing from free standing furniture.
- Observing maximum weight limits for mechanism flaps / lids.

Is the product manually operated?

If so, here are some common risks associated with the installed product.

- Tripping and falling over product.
- Over-stretching muscles operating the device.
- Hitting body part on product when operating.
- User(s) falling into / onto cavity occupied by product.
- Animal climbing into product during use.
- Crushing / trapping by the product while operating.
- Children attempting to manipulate the product.
- Foreign objects can jam and make product unsafe to operate.
- Risk of crushing from free standing furniture.
- Observing maximum weight limits for the product.

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - TV Lifts

The following risk assessment examples are for demonstrative purposes only and do not reflect the detail of an appropriate risk assessment that should be performed by the installer.

They are designed to serve as inspiration only, covering a selection of areas and topics that should be considered when you perform your own risk assessment.

Scenario:

Couple with a young child having the product installed inside a fixed wall cabinet.

Product Range:

TV Lift

Risk Observed:

Young child may try to open the front panel of the cabinet and cause injury.

Risk To Life:

High

Risk Likelihood:

Medium

Actions Recommended:

Locks are fitted to front of cabinet, so the parents are only able to gain access to the interior of the enclosure.

Action Result:

The toddler will not be able to open the front panel of the mechanism and will not be able to interfere with the internal components of the lift.

Product Recommended:

Key locks.

Scenario:

Parent with two teenage children and a cat. The TV lift installed on their decking in their garden.

Product Range:

TV Lift

Risk Observed:

Cat may become trapped inside the unit while it is operating.

Risk To Life:

Medium

Risk Likelihood:

Medium

Actions Recommended/Installed:

Operator Presence Switch installed with a direct line of sight to the mechanism so that the user must hold the switch down to operate the mechanism. Users have been advised to pay attention to the mechanism when it is being operated.

Action Result:

The Operator Presence Switch ensures the user is in a safe operating position while the mechanism is in motion.

Product Recommended:

OPS (Operator Presence Switch)

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - TV Lift & Swivel

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Scenario:

User has a partner and has their lift installed in a cabinet in their living room. The mechanism has the drop and roll flap functionality.

Product Range:

TV Lift Swivel

Risk Observed:

User may trap hand inside the flap mechanism when the unit is operating.

Risk To Life:

Low

Risk Likelihood:

Medium

Actions Recommended:

Tapeswitch has been installed so that if a user places hand inside the mechanism the Tapeswitch will turn off power to the unit.

Action Result:

Owner and partner now has appropriate information to consult with installer in the event that the safety of the mechanism becomes a concern.

Product Recommended:

Tapeswitch

Scenario:

Single owner has the lift installed into a cabinet with a drop and roll flap and has a wall to the right hand side of the unit.

Product Range:

TV Lift Swivel

Risk Observed:

Objects can fall into the mechanism and cause it to malfunction and the unit could rotate and strike the wall to the right of the unit.

Risk To Life:

Low

Risk Likelihood:

Medium

Actions Recommended:

Installer has implemented an Operator Presence Switch (OPS) and use has been instructed to make observational checks before powering on the mechanism to ensure that there are no objects obstructing the unit. Installer has removed left and right over-ride switch on the control system so that the user cannot accidentally rotate the unit into the wall.

Action Result:

End user now has knowledge of product functions and is able perform visual checks before operating the mechanism. User is also aware of the pre-programmed positions that have been set to avoid a collision with the right hand wall.

Product Recommended:

OPS (Operator Presence Switch) and removed control manual left/right functionality.

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - TV Lift & Hinge

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Scenario:

Single user with a young child have their hinged lift installed inside a counter-top on a kitchen island.

Product Range:

TV Lift Hinge

Risk Observed:

The owner's child may climb onto counter-top and cause injury by trying to play with the mechanism while it is operating.

Risk To Life:

Low

Risk Likelihood:

Low

Actions Recommended:

User has been advised to keep the remote out of reach of the child so that it cannot accidentally trigger the lift while the owner is away from the mechanism. The owner has also been advised to maintain line of sight with the mechanism while it is being operated to ensure that the child is not obstructing the lift. A remote control wall holder has been installed out of reach of the child so that they cannot play with the remote and trigger the unit.

Action Result:

Owner has the knowledge about best usage practices and can reduce the risk of injury by following the guidelines from the installer.

Product Recommended:

Remote control wall holder

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - Motorised Wall Mount

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Scenario:

Family with two children have the TV recessed in a wall in the corner of their living room.

Product Range:

Motorised Wall Mount

Risk Observed:

New users may be unaware of the automated functionality of the mechanism. This could cause injury when the product rotates outwards.

Risk To Life:

Low

Risk Likelihood:

Low

Actions Recommended:

All users have been given an in depth walk through of the product functions, so they are fully equipped with the knowledge of how to interact with the mechanism. Pressure pad sensor has been installed below the mechanism so that power is cut if a user is standing in front of the mechanism.

Action Result:

Users now have a comprehensive understanding of the mechanism's functionality and pressure pad acts as a fail safe if user is stood next to the mechanism as it is operating.

Product Recommended:

Pressure Pad Sensor

Scenario:

Hotel has had Motorised Wall Mounts installed into each of their rooms for guests to use during their stay.

Product Range:

Motorised Wall Mount

Risk Observed:

Guests may not be familiar with the product and how it functions so may incorrectly operate the mechanism causing damage to the mechanism or the user.

Risk To Life:

Low

Risk Likelihood:

High

Actions Recommended:

The hotel staff have been properly trained about how to operate the mechanism. They have been advised to include information about the mechanism in their welcome pack that should be given to guest before they enter their room. Concierge will walk the guest through the unit's operation when they are escorted to their room.

Action Result:

Owner now has sufficient knowledge surrounding device to accurately teach guests and other staff members how to operate the mechanism. Guests will have an awareness and ability to correctly follow the operating instructions demonstrated by the concierge.

Product Recommended:

N/A

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - Under Bed TV Lift

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Scenario:

Family with young children have the lift installed under parent's bed.

Product Range:

Under Bed Lift

Risk Observed:

Family member standing at the foot of the bed may have their ankles impacted by the mechanism operating.

Risk To Life:

Low

Risk Likelihood:

Medium

Actions Recommended:

Pressure pads have been installed under the carpet to detect if a user is standing at the foot of the bed. Operator Presence Switch (OPS) has been installed so that the user is stood away from the mechanism while it is operating.

Action Result:

The OPS ensures that the operator is placed away from the mechanism during operation. The Pressure Sensing Pad acts as a fail safe if another member of the family is stood at the foot of the bed while the mechanism is being operated.

Product Recommended:

Pressure Pad Sensor and Operator Presence Switch (OPS)

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - TV Floor Mount

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Scenario:

Device is installed in the garden of a family home. Family's children play sports in the garden.

Product Range:

Outdoor Floor Mount

Risk Observed:

Family member may trip or knock the mount while playing sport causing the unit to fall over, causing injury or damage to the display.

Risk To Life:

Medium

Risk Likelihood:

Medium

Actions Recommended:

Floor mount has been secured in place using bolts, so the device remains stable when it is operated or collided with.

Action Result:

Unit is far more stable and able to withstand knocking or leaning without collapsing.

Product Recommended:

Mounting points in the floor to attach the floor mount to ground.

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - Moving Panel Mechanism

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Scenario:

Single user has a Picture Lift Mechanism installed in a lounge.

Product Range:

Picture Lift Mechanism

Risk Observed:

User may be pinched by the canvas installed on the mechanism while trying to operate the TV.

Risk To Life:

Low

Risk Likelihood:

Medium

Actions Recommended:

The canvas is hung onto the mechanism rather than bolted in place. The free hanging canvas will therefore fall off the mechanism out of the way if the user has their body and/or hand inside in the way of the mechanism while it is operating.

Action Result:

Leaving the panel unbolted allows the canvas to move out of the way if the unit is obstructed while operating. If the canvas was bolted in place, it would not be able to give way to objects in the same way and could crush the user's hand.

Product Recommended:

N/A

RISK ASSESSMENT EXAMPLES

Risk Assessment Examples - Projector Hinge/Lift

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Scenario:

Single user has projector installed inside a void in the rear of the theatre room so that it can hinge forward when in use.

Product Range:

Projector Hinge

Risk Observed:

Hinge could hit user on head while rotating forward.

Risk To Life:

Low

Risk Likelihood:

Medium

Actions Recommended:

Button has been installed into seating area away from the mechanism so that it can only be operated while the user is at a safe distance from the mechanism.

Action Result:

User is now able to operate the mechanism without being in the immediate vicinity of the projector. This reduces the risk of the user coming into contact with the device while it is operating.

Product Recommended:

Custom switch installed into cinema seating.



EUROPEAN OFFICE

Address:
Unit 6-8
Brunel Road
Bedford
Bedfordshire
MK41 9TG

Phone: +44 (0) 1438 833577
Email: info@futureautomation.co.uk

Office Hours:
Mon - Fri 8:00 to 17:30 GMT
Saturday & Sunday - Closed

NORTH AMERICAN OFFICE

Address:
Enterprise Park
127 Venture Drive
Dover
NH
03820

Phone: +1 (603) 742 9181
Email: info@futureautomation.net

Office Hours:
Mon - Fri 7:00 to 17:00 EST
Saturday & Sunday - Closed