HAUSER SHADE
MORE THAN A SHADE BETTER SINCE 1910

AUTOMATION GUIDE

NET PRICES EFFECTIVE JULY 1, 2010 (SUBJECT TO CHANGE WITHOUT NOTICE)

- BATTERY OPERATED MOTORS
- 110V HARDWIRE MOTORS
- ALL CONTROLLED BY REMOTE, WALL SWITCH, TIMERS, OR WEATHER SENSORS

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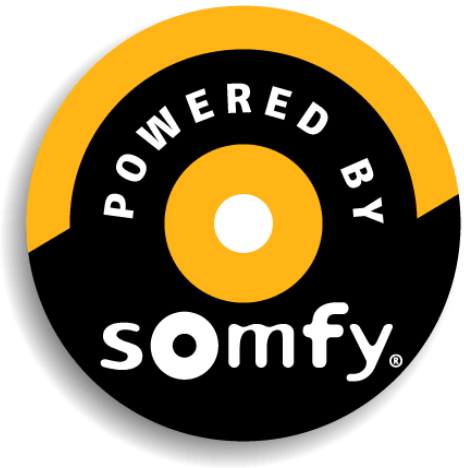

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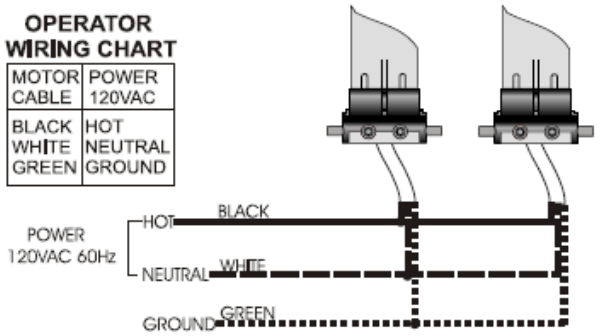
Motorization Explanation / Definition

When we began offering motorization for window shades, like you, we had many questions about this technology and what it could offer. After a few years we are pretty well versed in the different options and their pros and cons and feel it's time to share our knowledge with you. We've developed this guide to help you better understand motorization so you can help your customers make more educated decision about automating their window shades.

We currently offer 6 types of motors:

1) 3-Wire Altus (RTS) Motor (Hardwire)
2) 4-Wire Standard Motor (Hardwire)
3) 3-Wire Sonesse "Ultra-Quiet" Motor (Hardwire)
4) 24V DC Low Voltage Sonesse "Ultra-Quiet" Motor
5) 12-Volt IR Motor (Battery)
6) 12-Volt RTS Motor (Battery)



The Differences explained:

Hardwire Motors
This is the best type of motor if you want to have it installed once and have a lifetime of worry free operation. These are also used for heavier / bigger shades and exterior shades and are a wiser choice for commercial applications.

Somfy Altus RTS:
This is our top of the line motor. It is controlled through radio frequencies broadcast from a handheld transmitter, a decorative wall switch, a timer, and/or a sun/weather sensor. The only wires you would have to run would be the power wires that power the motor. This is where the qualified electrician comes in. There has to be an 110v power supply to this motor. It can be plugged into an outlet or connected directly to the wiring of your home.

4-Wire Switch Motor:
This motor has to be wired to a power supply and a switch or relay system. It can have the same options as the 3-Wire motor, but each add-on has to be wired directly into a relay or to the one motor that you want to control. You will need a qualified electrician to install these and the components you wish to have control the motor(s).

3-Wire Sonesse "Ultra-Quiet" Motor (Hardwire):
This Motor has the exact same features as the Altus Motor but is made to be "Ultra-Quiet" and has less of a lifting capacity, which puts a limitation on the size of the shade.

24V DC Low Voltage Sonesse "Ultra-Quiet" Motor:
This is the smaller version of the previous 3-Wire Motor. It can be used in smaller applications and has the same benefits of the RTS System. This Motor requires a DC Transformer to operate.

Battery Operated Motors
These are the more practical motors for home shade motorization. The only worry you have is changing the batteries every couple of years with 6AA Lithium Batteries or a Battery Wand. These are used for smaller / lighter shades. They can also be installed by the installer without a qualified electrician.

12-Volt IR (Infrared) Motor:
This motor has an Infrared Eye on it that you have to point an infrared light from the remote control directly at in order to control the motor. It is powered by Single or Dual Lithium Battery Wands that are mounted in the window frame by the motor. The batteries are not replaceable and new Wands have to be purchased every 2-3 years (depending on the size of the shade and how often it is used). Lithium batteries are preferred because of the heat factor. Alkaline batteries would lose their charge in a shorter amount of time and would be less effective. You can also connect a transformer to this motor to eliminate the need of replacing the batteries.

12-Volt RTS Motor:*
This is basically 12V IR Meets Altus. This Motor has all the benefits of the Altus System but in a smaller, more practical size for smaller shades. It is compatible with all of the RTS accessories and can be used in conjunction with the Altus motors. These are great for interior applications when you don't want to deal with the hassle of pointing the remote at the motor.

**RTS:* This is the Radio Technology that is used to operate the RTS, Altus and Sonesse motor. You can program multiple motors onto one channel and have them work simultaneously. There are also two types of remotes, a single channel remote and a 5 channel remote. You can have one group of shades on the single channel and 5 groups of shades on the 5 channel.

Notes
** This manual only has what 85% of what people typically use, if there is a special application that you need, chances are we have it or can do it. Please give us a call and we may be able to help! Please call for pricing if you are interested in ordering Motors, Parts, or Accessories

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Calculating Shade Weight

Calculate **width X height** (in inches including wrap) of the shade and then divide by 1296. This gives you the square yardage of the material. Then multiply by the corresponding weight below:

Mylar	4.5 oz
SheerWeave Sunscreen, 1000, 7000,	9 oz
2360, 2390, Blackout	12 oz
2000, 2100, 3000, 5000	15 oz
4000, 4100, 4400	20 oz

And divide by 16. This will give you the approximate weight of the shade in pounds. You will also need to add the weight of the hem. The approximate weight is 4.5 oz per foot. Multiply this by the shade width and divide by 16 and add to the shade weight.

Calculation Example:

$$\frac{\text{Width X Height } \mathbf{/} \text{ 1296 X Fabric Weight}}{16} = \textit{Shade Weight}$$

THEN

$$\frac{\text{4.5 oz per ft X Shade Width}}{16} = \textit{Hem Weight}$$

FINALLY

Shade Weight + Hem Weight = *Total Weight*

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CONTROLS

TELIS 1

TELIS 4

DECOFLEX 1 CH

DECOFLEX 5 CH

CHRONIS TIMER

SUNIS SUN SENSOR

MOTORS

LT50 ALTUS/SONESSE 50

MOTORIZED SHADES

SONESSE 30 WITH TRANSFORMER

LT30 ROUND HEAD WITHBATTERY WAND

Ordering

When ordering IR battery motors, remember, you have to point the remote directly at the motor, so you want it to be plainly visible. Pick the best side to accomplish this. If ordering more than one, make sure you don't have the motors "back-to-back" if you want to control the shades independently.

When ordering a 3 or 4-Wire shade, it is important to know what side the power supply is going to be on for the AC motor. Also, give the window height and state that on the order form. We program all of the shades to the window height, although fine adjustments may need to be made on the job.

For RTS group controls, tell us which shades you want on the same channel. There are 5 channels to customize what shades move together. So when placing the order, be clear on what shades you want on the same/separate channels.

NOTES

Date: ____/____/_____ Page ___ of ___

Account # _____

Company _____

PO# _____

Sidemark _____

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Ship to:

_____

_____

_____

Ordered by: _____

Email order@hausershade.com | Phone 510-234-8850 | Fax 510-234-8861

	Material		Cloth Measurement **ADD 10"-12" To *Window Length***		Measurement Type				Spring Roller	Bead and Reel		Motor		Chain or Motor Cord Length	Roll Direction		Scallop Options		Special Instructions
Qty	Type	Color	Width	Length	CM	BM	OB	IB		L	R	L	R		Reg	Rev	Style / Fringe	Color	

Options:

Standard Chain – N/C

- ❑ Black-Plastic
- ❑ Nickel - Metal
- ❑ Vanilla - Plastic

Special Chain

- ❑ Black - Metal
- ❑ Bronze - Metal
- ❑ Stainless - Metal
- ❑ White - Metal
- ❑ Aluminum
- ❑ Black
- ❑ Bronze
- ❑ Cream

Fascia

❑3" ❑4"

- ❑ White
- ❑Custom

End Caps?

❑Yes ❑No

Header Box:

4"
❑Silver ❑White

5"
❑White

Cassette

- ❑Bronze
- ❑White

Hem Styles

SH Sewn Hem
R/SL Round-Silver
SQ/W Square-White
R/BL Round–Black
HS/SS Heat Seal/Side Seal
SQ/B Square-Black
R/WH Round-White

Motor Options: Motor Type:_____ Remote: ❑ 1-Chan Qty___ ❑ 4-Chan Qty___ circle: Hand or Wall (Black, Ivory, White)

Special Motor Controls (i.e. Timers, Sun Sensors, ect.)_____

Measure Key: CM=Cloth Measure; BM=Barrel Measure; OB=Tip-to-tip; IB=Inside Measure. *Factory will deduct 1/8" for Inside Measure*