

Makes window shades disappear

Features

- Nano Box, the world's smallest cassette allows you to easily blend your shade into any window allowing the shade to virtually disappear in the window
- Nano Duo shades are the best of both worlds in one cassette, occupying only 3.79" of depth
- Optional Side & Sill Channels eliminate light gaps for a blackout experience
- Ultra-quiet operation
- Low Voltage and Lithium Battery Shades have soft start/stop technology
- Programmable limits. Fine tunable using a remote, through your control system, or the TaHoma app, depending on configuration
- Industry leading light gaps, as small as 5/8", depending on size and configuration
- Shades move in unison, with speeds programmable through integration
- Expansive textile / fabric options with UV blocking Sunscreen, Light Filtering, Privacy and Black-out available. Most commercial grade fabrics carry NFPA 701-10 California Title 19, ASTM E2180, ASTM G21 Bacterial & Fungal Resistance and some carry various Acoustical Ratings for sound absorption. Custom fabric options available
- Power failure memory for the life of the shade
- Available in Wired using 485/ Zigbee LV with Janus, SiFi, and Fontus, or Wireless using Zigbee or RTS technologies
- Low voltage power and communication over Category cable, or over existing 2-wire installations

Note: Fabric selection may limit the size of the shade, or force cassette size to the next size up; use the SI Flow Tool and SI Design Services with help determining shade size and fabric selection compatibility.



Nano Box Specifications

For illustration purposes only; not a system specification drawing

Colors

Available in 12 standard powder coat colors for the ultimate in finish durability

Sizes

275 | Duo 275 | 375 | 475

Methods of Control

Wired Integration and control

- IP control for all popular control systems - 485
- Serial 232
- Contact closure (global and local)
- 12 v trigger
- 0-10v

Wireless Integration and control

- Zigbee
- RTS (global and local)
- IR

Manual Operation

- Chain-free operation
- 275 and 375 cassette, standard and reverse roll

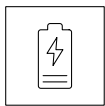
Technical Specifications

Power

- Low Voltage Power, with operating voltage: (class 2, 24-28v DC)
- Power supply features over/under-voltage, over/under current, and thermal protection for all devices in the system
- Electrostatic isolated and galvanic isolation
- Non-volatile memory, meaning programming is protected in the case of a power failure
- Power must be derived from a Screen Innovations supplied power source for all low-voltage and charging

Compatible power sources

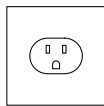
Configurable in 3 available motor types:



Rechargeable
Zigbee | RTS
275 | 375

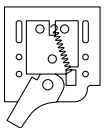


24v DC
Zigbee | RTS | 485
275 | 375 | 475

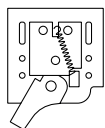


110v AC
RTS | 485
375 | 475

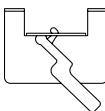
Bracket Options



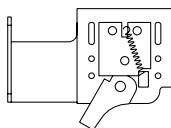
Standard



Low Profile (Top)



Low Profile
(Top & Back)



End Mount

Flexible Configuration

- Create scenes, groups, and set times
- Systems we integrate with:

NANO 485 shades - BCP, Control4, Crestron SIMPL, Crestron Home*, Dry Contact Closures, Elan, IP, IR, Lutron*, Loxone, RS-232, RS-485, RTI, Savant, URC, 0-10v, 12v Trigger

NANO RTS shades - Alexa, Control4, Crestron SIMPL, Crestron Home*, Dry Contact Closures, Elan, Google Home via IFTTT, Josh.ai*, IP, IR, Loxone, RS-232 via URTSII, RS-485 via URTSII, RTI, Savant, URC, 12v Trigger via Connect

NANO Zigbee shades - Alexa, Control4, Crestron SIMPL, Crestron Home*, Elan, Google home, IP, Lutron*, RS-232*, RTI*, Savant, URC, Apple Homekit*, Phillips HUE*, Brilliant*, Josh ai*, Samsung Smart Things*

*-Coming Soon

System Size

Janus - Each Janus powers up to 8 devices, and up to 255 devices per segment

Zigbee - A Zigbee system can control up to 77 nodes per mesh controller, with no limit on number of mesh controllers for RTS

RTS - RTS systems can control virtually unlimited devices using LinkPro Z

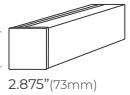

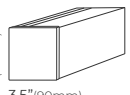
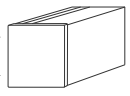
Environment

Operating temperature range is normal ambient (32 to 110 degrees), and humidity levels up to 90%. Not meant for wet environments

Mounting Bracket Types & Dimensions

	Standard Brackets	Low Profile (Top) Brackets	Low Profile (Top & Back) Brackets	End Mount Brackets
275				
375		NA	NA	
475		NA	NA	
Duo		NA	NA	NA

Nano Box Measurements

	Height & Depth		Max. Width		Min. Width	Max. Height		Light Gap	
	Cassette	Cassette	Motors	Control		Width	Height		
275	 2.813" (71mm) 2.875" (73mm)	8'	Manual	-	22 3/4	Up to 96	Up to 96	3/4	
			Wirefree RTS	RTS	18 1/8		Up to 144	1 1/16	
			Wirefree Zigbee	Zigbee					
			Low Voltage (DC)	Zigbee / RTS / 485	16 1/2			1 1/16	
275 Duo	 5.59" (142mm) 3.79" (96mm)	8'	Duo Zigbee	Zigbee	26 3/8	Up to 96	Up to 144	1 1/16	
			Duo Low Voltage (DC)	Zigbee / RTS / 485	16 7/8				
375	 3.687" (94mm) 3.5" (90mm)	10'	Manual	-	22 3/4	Up to 96	Up to 96	3/4	
			Wirefree	RTS / Zigbee	26 3/8		Up to 168	1 1/16	
			Low Voltage (DC)	RTS / 485	16 1/2		Up to 120	Up to 192	7/8
			Line Voltage (AC)	RTS / 485	37 1/2			1 5/16	
375 Coupled	 3.7" (94mm) 3.5" (73mm)	15'	Low Voltage (DC)	RTS / 485	**Drive side 37 1/8	Up to 180	Up to 192	Std. 3/4	
			Line Voltage (AC)	RTS / 485	**Drive side 38			Inner 1	
475	 4.75" (121mm) 4.625" (117mm)	15'	Low Voltage (DC)	RTS / 485	37 1/8	Up to 180	Up to 192	1	
			Line Voltage (AC)	RTS / 485	38			1 1/8	

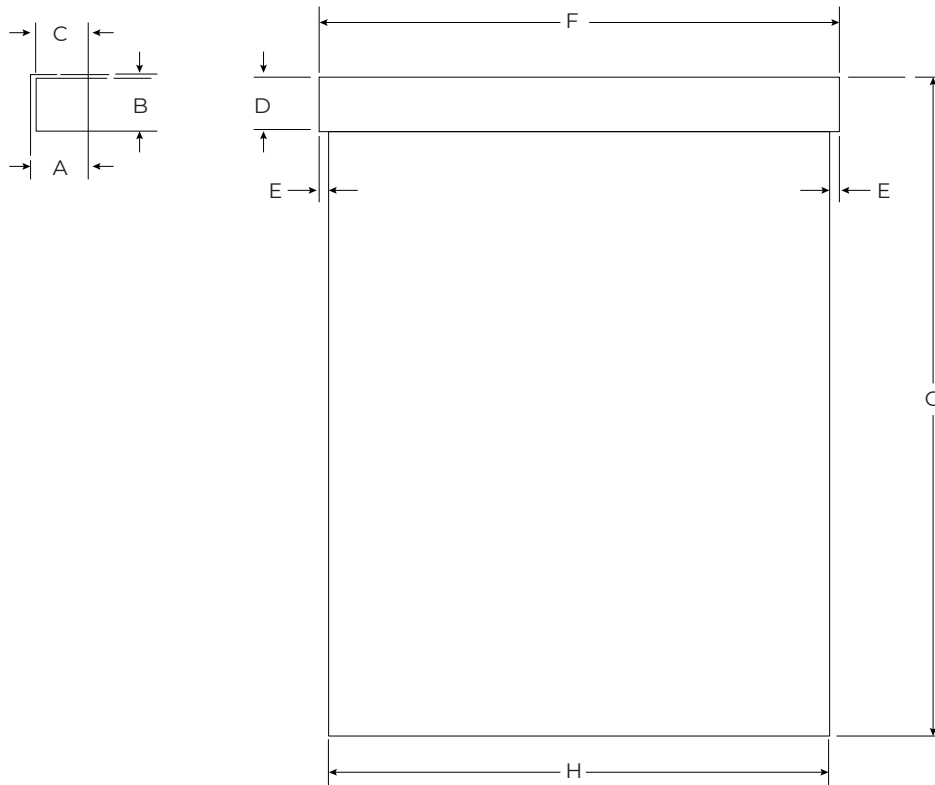
*Max. width & height are fabric/railroad dependent.

All the measurements listed above are in inches.

**Coupled-Additional segments can be as narrow as 15 1/2" wide

RTS - 1-Way RF Control | Zigbee - 2-Way Wireless Control / Low-voltage | 485 - 2-Way Hardwired Control

Shade Measurements



Series	275		375				475		Duo
Motor	WF*	LV	WF*	LV	DC	AC	DC	AC	WF*
A	3 5/16"	3 5/16"	4 1/16"	4 1/16"	4 1/16"	4 1/16"	5 3/16"	5 3/16"	4 3/16"
B	3 1/16"	3 1/16"	3 15/16"	3 15/16"	3 15/16"	3 15/16"	5 1/16"	5 1/16"	5 13/16"
C	2 7/8"	2 7/8"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	4 5/8"	4 5/8"	3 13/16"
D	2 13/16"	2 13/16"	3 11/16"	3 11/16"	3 11/16"	3 11/16"	4 3/4"	4 3/4"	5 9/16"
E	1 1/16"	1 1/16"	1 1/16"	1 1/16"	7/8"	7/8"	1"	1"	3/4"
F			Ordered Shade Width						
G			Ordered Shade Height						
H			Fabric Width (F - 2E)						

*WF is an acronym for Wire Free (RTS or Zigbee 3.0)