

Nano Box

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 with Janus, SiFi, and Fontus, or Wireless using Zigbee 3.0 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 3.0
- RTS (global and local)
- IR

Technical Specifications

Power

- Low Voltage Power, with operating voltage: (class 2, 24-28vdc)
- 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

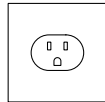
Configurable in 3 available motor types:



Rechargeable
Zigbee 3.0 | RTS
275 | 375

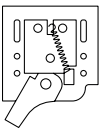


24 DC
RTS | 285
275 | 375 | 475

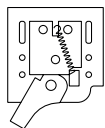


110v ACRTS
RTS | 485
375 | 475

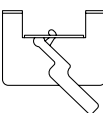
Bracket Options



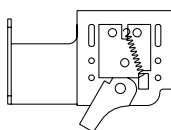
Standard



Low Profile (Top)



Low Profile
(Top & Back)



End Mount

Flexible Configuration

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

NANO 485 shades - AMX, BCP, Control4, Crestron SIMPL, Crestron Home*, Dry Contact Closures, Elan, IP, IR, Lutron, Loxone, RS-232, RS-485, RTI, Savant, URC, 0-10v, 12vTrigger
NANO RTS shades - Alexa, Control4, Crestron SIMPL, Crestron Home*, Dry Contact Closures, Elan, Google Home via IFTTT, Josh.ai*, IP, IR, Lutron, Loxone, RS-232, RS-485, RTI, Savant, URC, 12vTrigger
NANO Zigbee shades - Alexa, Control4, Crestron SIMPL, Crestron Home*, Elan, Google home via IFTTT, IP, IR*, Lutron*, RS-232*, RS485*, RTI*, Savant, URC*

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

NANO Zigbee shades - Alexa, Control4, Crestron SIMPL, Crestron Home*, Elan, Google home via IFTTT, IP, IR*, Lutron*, RS-232*, RS485*, RTI*, Savant, URC*

*-Coming Soon

System Size

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

Zigbee 3.0 - A Zigbee 3.0 system can control up to 72 nodes per mesh controller, with no limit on number of mesh controllers.

RTS - RTS systems can control up to 255 devices using LinkPro Z

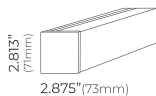
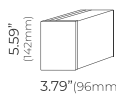
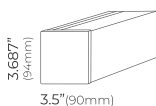
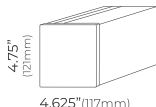
Environment

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

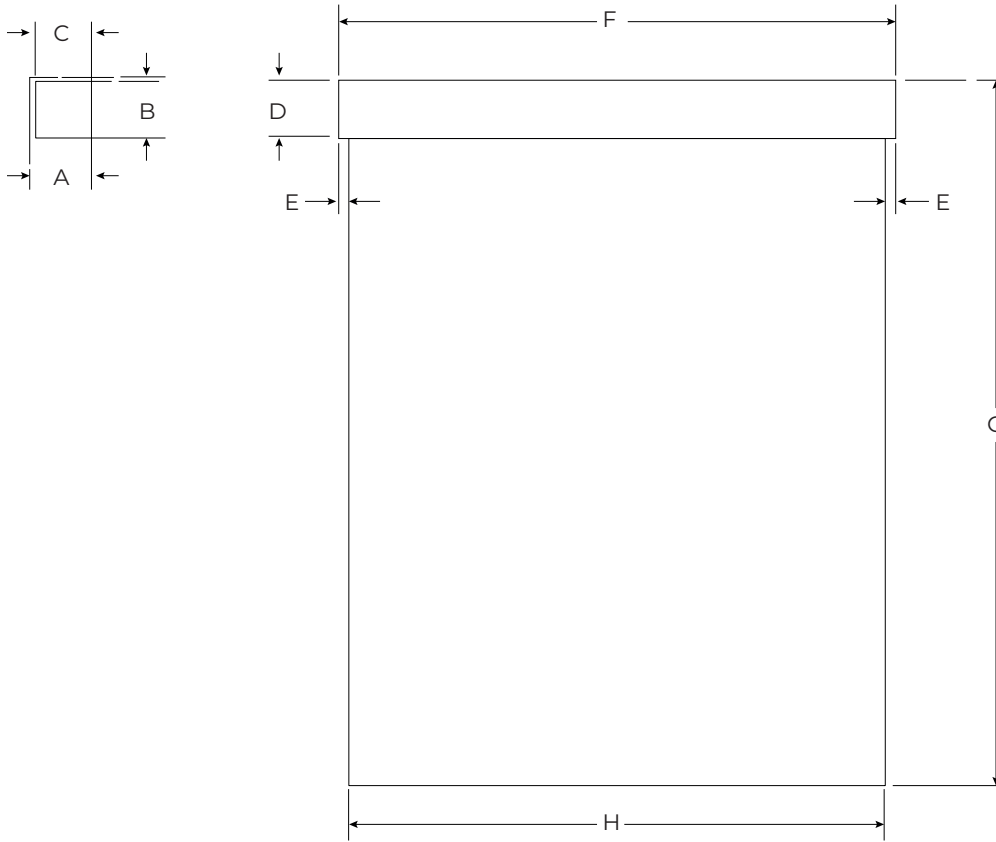
Nano Measurements

	Height & Depth		Max. Width	Min. Width		Max. Width & Height* on each side			Power & Control Options			
	Cassette	Cassette		Motors	Shade	Fabric	Width	Height	Light Gap	Power/Control A		Power/Control B
275	 <p>2.813" (71mm) 2.875" (73mm)</p>	8'	Manual	N/A	N/A	96	74 - 96	N/A	-	-	-	-
			Wirefree RTS	18 3/8	16 7/8	96	73 - 144	5/8	Lithium	RTS	-	-
			Wirefree Zigbee	18 3/8	16 7/8	96	73 - 144	5/8	Lithium	Zigbee	-	-
			Low Voltage (DC)	16 1/2	15 1/4	96	73 - 144	11/16	24v DC	RTS	24v DC	SDN
275 Duo	 <p>5.59" (142mm) 3.79" (96mm)</p>	8'	Duo Zigbee	26 3/8	25	96	73 - 144	11/16	24v DC	Zigbee	-	-
			Duo Low Voltage (DC)	16 7/8	15 1/2	96	73 - 144	11/16	24v DC	SDN	-	-
375	 <p>3.687" (94mm) 3.5" (90mm)</p>	10'	Wirefree RTS	26 3/8	25	120	84 - 168	5/8	Lithium	RTS	-	-
			Wirefree Zigbee	26 3/8	25	120	84 - 168	5/8	Lithium	Zigbee	-	-
			Low Voltage (DC)	16 1/2	15 1/4	120	106 - 192	1/2	24v DC	RTS	24v DC	SDN
			Line Voltage (AC)	37 1/2	35 3/4	120	106 - 192	5/16	120v AC	RTS	120v AC	SDN
475	 <p>4.75" (121mm) 4.625" (117mm)</p>	15'	Low Voltage (DC)	37 3/8	35 1/4	180	146 - 192	1	24v DC	RTS	120v AC	SDN
			Line Voltage (AC)	38	36	180	146 - 192	1 1/8	120v AC	RTS	120v AC	SDN

All the measurements listed above are in inches.
*Max. width & height are fabric/railroad dependent.

RTS - 1-Way RF Control | Zigbee - 2-Way Wireless Control | SDN - 2-Way Hardwired Control

Measure your shade



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	5/8	1 1/16	5/8	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)