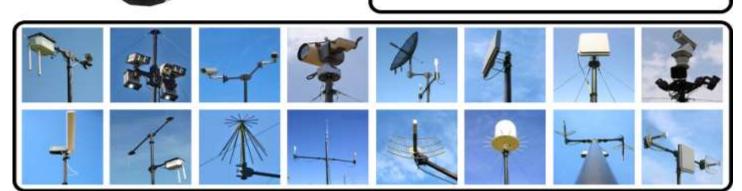


Rev. 08192012







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BLUESKY MAST



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DISCLAIMER OF WARRANTIES AND LIABILITY

DO NOT ATTEMPT TO DEPLOY THIS MAST IF YOU ARE NOT EXPERIENCED IN SIMILAR DEVICES

You are responsible for your own safety and survival and that of those persons around the mast. This manual is to be used as an aid and only to be used at your own risk. Nothing will replace good sound judgment when deploying the mast.

The information provided in this manual should be used as a guideline and not absolute fact. Many variables are involved in deploying a mast system such as weather, soil conditions, guying distances, cantilevered payloads, surrounding obstacles, accuracy and precision of guying, etc.

BLUESKY MAST, INC. MAKES NO WARRANTIES REGARDING THE GOODS, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. BUYER MAKES NO RELIANCE ON ANY REPRESENTATION OR DOCUMENTATION OF BLUESKY MAST, INC., EXPRESS OR IMPLIED, WITH REGARD TO THE GOODS.

BLUESKY MAST, INC. SELLS THE GOODS TO BUYER ON CONDITION THAT BLUESKY MAST, INC. WILL HAVE NO LIABILITY OF ANY KIND AS A RESULT OF THE SALE. BUYER AGREES THAT BLUESKY MAST, INC. SHALL HAVE NO LIABILITY FOR DAMAGES OF ANY KIND, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURIES OR DEATH TO PERSONS OR PROPERTY, TO BUYER, ITS EMPLOYEES, CUSTOMERS OR AGENTS, AS A RESULT OF THE SALE. BUYER ALSO AGREES TO HOLD BLUESKY MAST, INC. HARMLESS FROM ANY CLAIMS BUYER, OR ANY THIRD PARTY, MAY HAVE AS A RESULT OF BUYER'S USE OF THE GOODS.

BUYER HAS READ THIS DISCLAIMER AND AGREES WITH ITS TERMS IN CONSIDERATION OF RE-CEIVING THE GOODS.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

If you find any mistakes or you can help improve this material, please contact BlueSky Mast via US Mail at:

 BlueSky Mast Inc
 Phone: 877-411-6278

 1515 Gunn Hwy
 Or
 International: 718-802-3266

 Odessa, FL 33556
 Fax: 866-411-6278

email: support@blueskymast.com

Cage Code: 3JWX5 DUNS Number: 137469404

We will send you a reply concerning incorporating your suggestions. Thank You.



USA



<u>Limited Twelve (12) Month Warranty</u>

This BLUESKY MAST, INC. equipment is warranted to be free from defects in material and workmanship under normal use and service. BLUESKY MAST, INC. shall repair or replace defective equipment, at no charge, or at its option, refund the purchase price, if the equipment is returned to BLUESKY MAST, INC. not more than twelve (12) months after shipment. Removal or reinstallation of equipment and its transportation shall not be at the cost of BLUESKY MAST, INC. except BLUESKY MAST, INC. shall return repaired or replaced equipment freight prepaid to a continental United States address.

This Warranty shall not apply to equipment which has been repaired or altered in any way so as to affect its stability or durability, or which has been subject to misuse, negligence or accident. This Warranty does not cover equipment which has been impaired by severe weather conditions such as excessive wind, ice, storms, lightning, or other natural occurrences over which BLUESKY MAST, INC. has no control, and this Warranty shall not apply to equipment which has been operated or installed other than in accordance with the instructions furnished by BLUESKY MAST, INC.

Products are manufactured from anodized aluminum in various colors. Color fading and varying shades of color will inevitably occur with exposure to sunlight and environmental conditions and is not considered a defect in the material or product.

Claimants under this Warranty shall present their claims along with the defective equipment to BLUESKY MAST, INC. immediately upon failure.

Noncompliance with any part of this claim procedure may invalidate this warranty in whole or in part.

This warranty is expressly in lieu of all other agreements and warranties, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of this warranty. BLUESKY MAST, INC. Neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with the equipment delivered or provided. In no event shall BLUESKY MAST, INC. Be liable for any loss of profits, loss of use, interruption of business, or indirect, special or consequential damages of any kind.

In no event shall BLUESKY MAST, INC. be liable for damages in an amount greater than the purchase price of the equipment. Some states do not allow limitations on how long an implied warranty lasts, or allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.



Standard Series Manual - Safety Precautions

Important Safety Precautions

Part I: Power Lines, Lightning and Grounding

- LOOK UP AND LIVE! Before erecting the mast, check for overhead power lines. Never deploy this mast where there is any possibility of direct or indirect contact with a power line. Keep the mast a distance equal to or greater than twice its height away from power lines. This will ensure that the Antenna, masts, guy ropes or cables will not contact power if it falls either during installation or later. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.
- BEWARE OF UNDERGROUND POWER LINES! Ground stakes might penetrate underground power lines. Before deploying any ground stakes, be sure to check the area for warnings of buried cables and contact your local power company to verify. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.
- Keep guy ropes away from power lines to eliminate the possibility of a power line falling on the guy rope.
- Never touch a mast or structure that you suspect may be accidentally energized electrically.
- Never work with a mast or related structure during electrical storm activity.
- Contrary to popular belief, most lightning injuries and damage do not come from direct lightning strikes. There are several ways that lightning can injure you:
 - "Step Potential" is potentially hazardous voltage that can exist on the ground like stepping on a live wire. This results from electrical energy diverted into the ground from lightning striking nearby. It is the most common injury causing lightning effect.
 - Flashover is when lightning strikes a nearby object and then jumps to another nearby object. This is usually what injures people standing under trees in an electrical storm.
- Do not stand near the mast, deploy or retract the mast during electrical storm activity.
- Always ground the mast.





Standard Series Manual - Safety Precautions

Important Safety Precautions

Part II: Guy Ropes and Fasteners

- Inspect all guy ropes and fasteners for wear or damage before use. Serious injury or death may occur if a guy rope failure causes a mast to fall.
- Mark guy ropes clearly to prevent personnel from tripping over them. Personnel who trip may suffer injury and may also pull up a guy rope and cause the mast to fall.
- Monitor the tension of the guy ropes to ensure proper tension.
- Ensure that stakes and anchors are secure in the ground before attaching guy ropes. Use extra caution when anchoring guy ropes, especially in sandy or loose soil.
- Never fasten a guy rope over a sharp edge or in a manner that causes abrasion. This may cause guy rope failure. Pad any contacting surfaces if necessary.
- Do not install guy ropes across roadways or other paths of travel. Always clearly mark guy ropes.
- Ensure guy ropes are clear of branches and other obstructions.
- Use only authorized parts. Unapproved substitutes may not be strong enough for the equipment.
- Periodically inspect the mast to ensure that it remains structurally sound and properly installed.
- Never overload the mast or structure. Use ONLY the equipment and accessories in proper quantities as described by the manufacture specifications. Do not use unauthorized equipment or modifications.
- BE CAUTIOUS of ice that may form on the antenna/mast. The area around the antenna/mast should be marked and roped off to avoid falling ice. Special care must be taken when retracting the mast or structure to avoid falling ice.
- Use additional guy ropes for the mast, if heavy ice loading or wind is expected or anticipated.
- Ensure that the wind speed is not excessive during deployment/retraction operations. Maximum safe wind speeds are available from manufacturer for your specific mast.



Standard Series Manual - Safety Precautions

Important Safety Precautions

Part III: Wind Conditions

- BlueSky Mast recommends that you do not to attempt to actively deploy in winds that exceed 15 mph.
- During windy conditions it will be necessary to incrementally guy the mast as it is being deployed.
- Incremental Guying will add time to the deployment but increase the protection of personnel and equipment.

Use this chart to determine approximate wind speed:

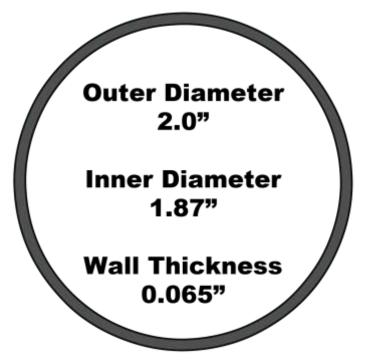
VI SUAL OBSERVATIONS	KM/H	MPH	DEPLOYMENT CONDITIONS
Smoke Rises Vertically	<1	<1	Safe
Wind Direction Shown by Smoke	1-6	1-3	Safe
Wind Felt on Face, Leaves Rustle	7-12	4-7	Safe
Leaves & Twigs in Constant Motion, Wind Extends Light Flag	13-18	8-11	Use Caution
Dust and Loose Paper Blown Freely, Small Branched Move	19-26	12-15	Use Caution
Small Trees Begin to Sway	27-35	16-22	Dangerous Conditions
Large Branches in Motion, Wind Whistles Through Wires	36-44	23-27	Dangerous Conditions
Whole Trees in Motion	45-55	28-34	Dangerous Conditions





How to tell if your system is an AL1 or AL2

AL1 Center Mast Pole



AL2 Center Mast Pole

Outer Diameter 2.0"

Inner Diameter 1.75"

Wall Thickness 0.125"





Deployable Payload

A mast installation can be exposed to several types of loads. The physical weight of the instrument and its attachments is referred to as the payload. The mast can support much more weight when properly guyed and stabilized but BlueSky Masts will only recommend payloads that are safe to carry during the deployment process and we call this the deployable load. The remaining reserve load capacity represents the margin designed to absorb any subsequent environmental load that the mast may encounter. The primary environmental load on a mast is wind load.

The payload capacity on a BlueSky Mast is governed by the installer's ability to safely elevate the payload to the desired height. As poles are inserted into the tripod and the mast begins to climb, the mast tip has a tendency to lean off-center and away from its position of greatest strength. An iterative process of incremental guying and mast pole elevation may be required to successfully deploy the mast. For best results, please limit your deployment to the height and payload combinations given in the table below.

Mast Model	Height (ft.)	AL1 Deployable Load (lbs.)	AL2 Deployable Load (lbs.)
2 Meter	7.5 ft.	50	100
3 Meter	10.5 ft.	47.5	85
4 Meter	13.5 ft.	45	70
5 Meter	16.5 ft.	42.5	65
6 Meter	19.5 ft.	40	60
7 Meter	22.5 ft.	37.5	57.5
8 Meter	25.5 ft.	35	55
9 Meter	28.5 ft.	32.5	52.5
10 Meter	31.5 ft.	30	50
11 Meter	34.5 ft.	25	40
12 Meter	37.5 ft.	20	35
13 Meter	40.5 ft.	15	30
14 Meter	43.5 ft.	12.5	25
15 Meter	46.5 ft.	10	20

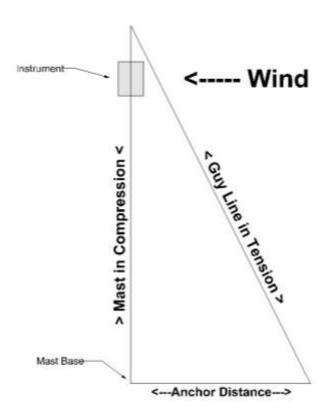




Wind Effects

When wind blows on a mast and its instruments, the guys restrict the top of the mast and its instruments from moving off center. The mast's reaction to wind will put tension in the guy line and force the top of the mast downward in compression, the amount of which will vary depending on the anchor distance as described below.

The size and shape of the instruments determine the amount of force they produce in any given wind condition. Don't forget that the mast itself is a surface area exposed to the wind and its wind load will need to be added to the instrument wind load to get the total wind load on the system. The mast wind loads are given in the table at the end of this section and clearly show the benefits of Secondary Guying.



Guying

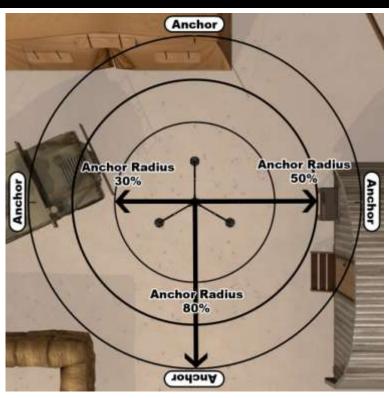
Guy lines are used to maintain the position of the top of the mast directly over the center of the tripod. This is its position of greatest strength, which will maximize the load carrying capacity of the mast in terms of payload as well as wind survivability. When no wind is present, the guy lines remain critical to stabilize the top of the mast and to keep the instrument mounts level.





Anchor Radius

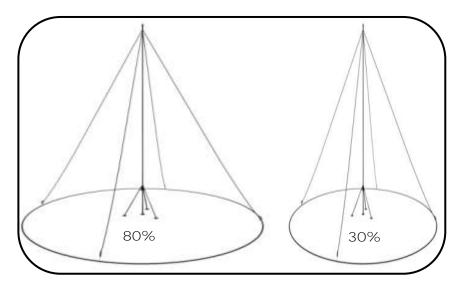
Ideal guying is set with an anchor radius of 80% of the mast height. Many applications of mast deployments are not able to afford an installation footprint of this size and installers may find it more convenient to place the guy anchors much closer to the mast as shown in the figure to the right. BlueSky Mast does not recommend configurations utilizing less than 80% guy radius, but if your site dictates that you must deviate from the recommended configuration it is imperative that the installer is aware of the effects of the reduced anchor radius and its effect on total payload capacity and wind loading.



The angle of pull on the guy line relative to the anchor radius may produce a lever effect increasing the mast compression due to wind loading by a <u>factor of 5!</u>

Guying Distance (% of Mast	Anchor Radius
Height)	Factor
10%	10.00
20%	5.00
30%	3.33
40%	2.50
50%	2.00
60%	1.67
70%	1.43
80%	1.25
90%	1.11
100%	1.00

The table at left shows the affect the anchor radius has on the multiplying factors of compressive loads produced on the mast by a horizontal wind force. Below are examples of various anchor radii.



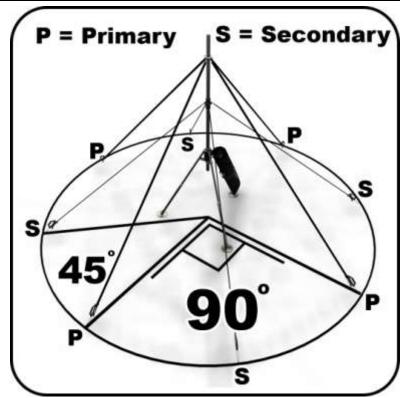


Primary and Secondary Guy Placement

BlueSky utilizes a 4 guy configuration to help minimize the affect wind loading has on the mast. The primary guys are always deployed from the top of the mast and extend out at a 90 degree angle from each other.

The secondary guys are deployed halfway down the mast between the top of the tripod and the primary guys. They are also deployed at 90 degrees of each other and 45 degrees of the primary guy ropes.

The primary and secondary guys are always deployed at the same distance or anchor radius from the base of the mast.



Guying Distance from Base of Mast

Use the chart to the right as reference to determine the proper distance to place the guy stake for the guys from the base of the mast.

If you are unable to utilize the 80% rule then refer to the load characteristics of your mast in the tables following this section to understand the impact to the payload capacity and wind loading of your mast.

Model Height	% Anchor Radius / Distance of the Guys from the Base of the Mast				
	80%	50%	30%		
2 M	6 ft	3.75 ft	2.25 ft		
3 M	8.4 ft	5.25 ft	3.15 ft		
4 M	10.8 ft	6.75 ft	4.05 ft		
5 M	13.2 ft	8.25 ft	4.95 ft		
6 M	15.6 ft	9.75 ft	5.85 ft		
7 M	17.2 ft	10.75 ft	6.45 ft		
8 M	20.4 ft	12.75 ft	7.65 ft		
9 M	22.8 ft	14.25 ft	8.55 ft		
10 M	25.2 ft	15.75 ft	9.45 ft		
11 M	27.6 ft	17.25 ft	10.35 ft		
12 M	30 ft	18.75 ft	11.25 ft		
13 M	32.4 ft	20.25 ft	12.15 ft		
14 M	34.8 ft	21.75 ft	13.05 ft		
15 M	37.2 ft	23.25 ft	13.95 ft		



Fully Operational	Survivable	Ma	st Fail	ure
	1 Standard Series rimary Guying Onl 50 lbs Deployed		t)	
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure			
2 m AL1 Standard Series (7.5 ft) Primary & Secondary Guying 50 lbs Deployed							
	Wind Speed (mph)	70	90	110			
	30% Guy Distance						
Mast Only	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
1 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
2 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
3 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						

Fully Operationa	Survivable	Ma	st Fail	ure			
3 m AL1 Standard Series (10.5 ft) Primary Guying Only 47.5 lbs Deployed							
	Wind Speed (mph)	70	90	110			
Mast Only	30% Guy Distance 50% Guy Distance 80% Guy Distance						
1 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance						
2 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance						
3 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance						

Fully Operationa	l Survivable	Ma	st Fail	ure			
3 m AL1 Standard Series (10.5 ft) Primary & Secondary Guying							
	47.5 lbs Deployed						
	Wind Speed (mph)	70	90	110			
	30% Guy Distance						
Mast Only	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
1 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
2 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
3 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						





Fully Operational	Survivable	Ma	st Fail	ure			
4 m AL1 Standard Series (13.5 ft) Primary Guying Only 45 lbs Deployed							
	Wind Speed (mph)	70	90	110			
	30% Guy Distance						
Mast Only	50% Guy Distance						
	80% Guy Distance						
20045	30% Guy Distance						
1 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance	j					
2 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
3 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						

Fully Operational	Survivable	Ma	st Fail	ure		
4 m AL1 Standard Series (13.5 ft) Primary & Secondary Guying 45 lbs Deployed						
	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operationa	Survivable	Ma	st Fail	ure				
5 m AL1 Standard Series (16.5 ft) Primary Guying Only 42.5 lbs Deployed								
	Wind Speed (mph)	<u>70</u>	90	110				
	30% Guy Distance							
Mast Only	50% Guy Distance							
	80% Guy Distance							
1000 000000 000	30% Guy Distance							
1 Sq Ft Panel	50% Guy Distance							
	80% Guy Distance							
	30% Guy Distance							
2 Sq Ft Panel	50% Guy Distance							
2	80% Guy Distance							
	30% Guy Distance							
3 Sq Ft Panel	50% Guy Distance							
	80% Guy Distance							

Fully Operationa	Survivable	Mast Failure					
5 m AL1 Standard Series (16.5 ft) Primary & Secondary Guying 42.5 lbs Deployed							
	Wind Speed (mph) 70 90 110						
	30% Guy Distance						
Mast Only	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
1 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
2 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
3 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						





Fully Operational	Survivable	Ma	st Fall	ure
6 m AL1 Standard Series (19.5 ft) Primary Guying Only 40 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure
	Standard Series (ary & Secondary Go 40 lbs Deployed		-	
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
18	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance	Ţ,		
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure	
7 m AL1 Standard Series (22.5 ft) Primary Guying Only 37.5 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operationa	Survivable	Mast Failure				
7 m AL1 Standard Series (22.5 ft) Primary & Secondary Guying 37.5 lbs Deployed						
	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Mast Failure		
8 m AL1 Standard Series (25.5 ft) Primary Guying Only 35 lbs Deployed				
	Wind Speed (mph)	70	90	110
7	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure	
8 m AL1 Standard Series (25.5 ft) Primary & Secondary Guying 35 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fail	ure
	Standard Series (rimary Guying Onl 32.5 lbs Deployed		ft)	
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
255	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			4 .
- 2	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure				
9 m AL1 Standard Series (28.5 ft) Primary & Secondary Guying 32.5 lbs Deployed						
1	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
7%	80% Guy Distance					
182	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
100	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Ma	st Fail	ure
	1 Standard Series rimary Guying Onl 30 lbs Deployed		ft)	
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure	
10 m AL1 Standard Series (31.5 ft) Primary & Secondary Guying 30 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance		Н		
	80% Guy Distance				
-3/3/5/3/9/5/3/10/5/	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fail	ure
11 m AL1 Standard Series (34.5 ft) Primary Guying Only 25 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
1001	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure				
11 m AL1 Standard Series (34.5 ft) Primary & Secondary Guying 25 lbs Deployed						
	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Mast Failure			
12 m AL1 Standard Series (37.5 ft) Primary Guying Only 20 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
1881	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fail	ure
12 m AL1 Standard Series (37.5 ft) Primary & Secondary Guying 20 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure		
13 m AL1 Standard Series (40.5 ft) Primary Guying Only 15 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operationa	Survivable	Mast Failure				
13 m AL1 Standard Series (40.5 ft) Primary & Secondary Guying 15 lbs Deployed						
	Wind Speed (mph)	70	90	110		
Mast Only	30% Guy Distance 50% Guy Distance 80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					





Fully Operational	Survivable	Mast Failure			
14 m AL1 Standard Series (43.5 ft) Primary Guying Only 12.5 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
1886	80% Guy Distance				
a brack a street and	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Mast Failure			
14 m AL1 Standard Series (43.5 ft) Primary & Secondary Guying 12.5 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
The State of the S	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fail	ure	
15 m AL1 Standard Series (46.5 ft) Primary Guying Only 10 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
1.11	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Mast Failure				
15 m AL1 Standard Series (46.5 ft) Primary & Secondary Guying 10 lbs Deployed						
	Wind Speed (mph)	70	90	110		
Mark Oak	30% Guy Distance					
Mast Only	50% Guy Distance 80% Guy Distance					
5019 (5000-00) A1	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance 80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
NATURE (198	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Ma	st Fail	ure	
2 m AL2 Standard Series (7.5 ft) Primary Guying Only 100 lbs Deployed					
	Wind Speed (mph)	70	90	110	
Mast Only	30% Guy Distance 50% Guy Distance 80% Guy Distance				
1 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance				
2 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance				
3 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance				

Fully Operational	Survivable	Mast Failure		
2 m AL	2 Standard Series	(7.5 f	t)	
Prima	ary & Secondary Gu	ying		
	100 lbs Deployed			
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operationa	Survivable	Mast Failure				
3 m AL2 Standard Series (10.5 ft) Primary Guying Only 85 lbs Deployed						
	Wind Speed (mph)	70	90	110		
Mast Only	30% Guy Distance 50% Guy Distance 80% Guy Distance					
1 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					
2 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					
3 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance					

Fully Operationa	Survivable	Mast Failure			
3 m AL2 Standard Series (10.5 ft) Primary & Secondary Guying 85 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
F-25-7-11-12-12-1	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				





ully Operational	Survivable	Ma	st Fall	ure
4 m AL2 Standard Series (13.5 ft) Primary Guying Only 70 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fall	ure
4 m AL2 Standard Series (13.5 ft) Primary & Secondary Guying 70 lbs Deployed				
	Wind Speed (mph)	70	90	110
Mast Only 1 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance 30% Guy Distance 50% Guy Distance			
2 Sq Ft Panel	80% Guy Distance 30% Guy Distance 50% Guy Distance 80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance 50% Guy Distance 80% Guy Distance			

Fully Operationa	Survivable	Mast Failure			
5 m AL2 Standard Series (16.5 ft) Primary Guying Only 65 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
100	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operationa	Survivable	Mast Failure				
5 m AL2 Standard Series (16.5 ft) Primary & Secondary Guying 65 lbs Deployed						
	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Ma	st Fail	ure
6 m AL2 Standard Series (19.5 ft) Primary Guying Only 60 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
2	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure
6 m AL2 Standard Series (19.5 ft) Primary & Secondary Guying 60 lbs Deployed				
	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
T-12-0-01-12-12-12-12-12-12-12-12-12-12-12-12-12	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure			
7 m AL2 Standard Series (22.5 ft) Primary Guying Only 57.5 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
e	80% Guy Distance				
V.C. 2.22.22.2	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
2	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Mast Failure					
7 m AL2 Standard Series (22.5 ft) Primary & Secondary Guying 57.5 lbs Deployed							
	Wind Speed (mph)	70	90	110			
	30% Guy Distance						
Mast Only	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
1 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
2 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						
	30% Guy Distance						
3 Sq Ft Panel	50% Guy Distance						
	80% Guy Distance						





ully Operational	Survivable	Ma	st Fail	ure
8 m AL2 Standard Series (25.5 ft) Primary Guying Only 55 lbs Deployed				
3	Wind Speed (mph)	70	90	110
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			Į
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Ma	st Fail	ure	
8 m AL2 Standard Series (25.5 ft) Primary & Secondary Guying 55 lbs Deployed					
	Wind Speed (mph)	70	90	110	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fall	ure		
9 m AL2 Standard Series (28.5 ft) Primary Guying Only 52 lbs Deployed						
	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
5	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Mast Failure				
8 m AL2 Standard Series (28.5 ft) Primary & Secondary Guying 52 lbs Deployed						
į.	Wind Speed (mph)	70	90	110		
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
The state of the s	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Mast Failure				
10 m AL2	Standard System	(31.5	ft)			
Pr	Primary Guying Only					
	50 lbs Deployed					
	Wind Speed (mph) 70 90 110					
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Mast Failure		ure		
10 m AL2 Standard System (31.5 ft)						
Primary & Secondary Guying						
50 lbs Deployed						
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Mast Failure				
11 m AL2 Standard System (34.5 ft)						
Primary Guying Only						
	40 lbs Deployed					
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Mast Failure				
11 m AL2	Standard System	(34.5	ft)			
Primary & Secondary Guying						
40 lbs Deployed						
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Mast Failure		
12 m AL2 Standard System (37.5 ft)				
Pr	imary Guying Onl	у		
	35 lbs Deployed			
	Wind Speed (mph)	<u>70</u>	<u>90</u>	<u>110</u>
	30% Guy Distance			
Mast Only	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
1 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
2 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			
	30% Guy Distance			
3 Sq Ft Panel	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure				
12 m AL2	Standard System	(37.5	ft)			
Primary & Secondary Guying						
35 lbs Deployed						
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Ma	st Fail	ure		
13 m AL2	13 m AL2 Standard System (40.5 ft)					
Pr	imary Guying Onl	у				
	30 lbs Deployed					
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					

Fully Operational	Survivable	Mast Failure				
13 m AL2	Standard System	(40.5	ft)			
Primary & Secondary Guying						
30 lbs Deployed						
Wind Speed (mph) 70 90 110						
	30% Guy Distance					
Mast Only	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
1 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
2 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					
	30% Guy Distance					
3 Sq Ft Panel	50% Guy Distance					
	80% Guy Distance					





Fully Operational	Survivable	Ma	st Fail	ure	
14 m AL2 Standard System (43.5 f			ft)		
Primary Guying Only					
25 lbs Deployed					
	Wind Speed (mph)	<u>70</u>	<u>90</u>	<u>110</u>	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Mast Failure			
14 m AL2	14 m AL2 Standard System (43.5 ft)				
Prima	ry & Secondary G	uying			
	25 lbs Deployed				
	Wind Speed (mph)	<u>70</u>	<u>90</u>	<u>110</u>	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

Fully Operational	Survivable	Ma	st Fail	ure	
15 m AL2	Standard System	(46.5	ft)		
Primary Guying Only					
20 lbs Deployed					
	Wind Speed (mph)	<u>70</u>	<u>90</u>	<u>110</u>	
	30% Guy Distance				
Mast Only	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
1 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
2 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				
	30% Guy Distance				
3 Sq Ft Panel	50% Guy Distance				
	80% Guy Distance				

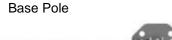
Fully Operational	Survivable	Mast Failure		
15 m AL2 Standard System (46.5 ft)				
Primary & Secondary Guying				
20 lbs Deployed				
	Wind Speed (mph)	<u>70</u>	<u>90</u>	<u>110</u>
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance		·	
	50% Guy Distance			
	80% Guy Distance			





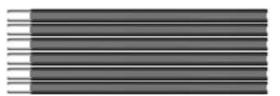
Standard Series - Basic Component Overview

BlueSky Mast Standard Series (2 to 6 Meters)





2 to 6 Center Mast Poles



Pole Bag



Hammer

18" Mounting Pole

Wheeling Carry Bag



AL1/AL2 Standard Tripod



Reference Pack



8 Tripod Stakes





BlueSky Mast Standard Series (7 to 10 Meters)

1 to 4 Additional Center Mast Poles



4 Guy Stakes



4 Guy Handles



Primary Guy Ring



BlueSky Mast Standard Series (11 to 15 Meters)

1 to 5 Additional Center Mast Poles



4 Guy Stakes



4 Guy Handles



Secondary Guy Ring



Pole Bag







Deploying the Standard Series Mast with No Guying

(For Models 2 to 6 Meter Only)



1. Inspect the Site before Deployment

- A. Ensure that the following conditions are met prior to deployment:
 - I. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.

2. Unpack the Wheeling Carry Bag

A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.

3. Set up and Orient the Tripod

- A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
- B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. For "Directionally Based Applications", face the direction that you want the device you are deploying to face. Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
- C. Release the Velcro strap on the tripod that holds the legs.
- D. Unfold the tripod legs
- E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.







4. Raise the Tripod

- A. Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- B. If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. (This may happen the 1st time a new mast is deployed and will abate with several uses.)
- C. Place the tripod back on the ground making sure all 3 base plates are flat and level.
- D. Tighten the turn knobs on each of the 3 telescoping legs





5. Level the Tripod

- A. Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- B. When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- C. If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- D. Fully tighten the turn knob on each leg.





 \triangle

Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm





6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR).
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.









7. Attach the Pole Bag to the Tripod Leg (Optional)

- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.







8. Insert the First Mast Pole

- A. Grab a mast pole and insert up through the bottom of the tripod until the silver insert of the mast pole is visible at least 4 inches above the top of the tripod.
- B. Secure the mast pole by locking the cam lock on the tripod.

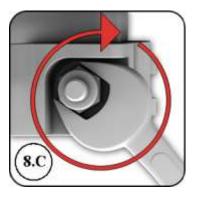






C. If slipping occurs with the cam lock while a pole is inserted, use the wrench provided and turn the nut a quarter turn until slipping no longer occurs.





9. Add the Mounting Pole

- A. Locate the mounting pole (it is 1/2 the length of a mast pole) and slide it over the silver insert of the first mast pole in the tripod.
- B. Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.









10. Attach Your Device or Devices to the Mast

- A. Attach your devices to mounting pole.
- B. If using any BlueSky accessories then please refer to the accessory guide located in the manual for more information.
- C. Secure any loose cables to the mounting pole.





WARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

11. Raise the First Mast Pole

- A. Holding the first mast pole in the tripod, release the cam lock and raise until only 4 inches is visible below the tripod.
- B. Secure the mast pole by locking the cam lock.







Warning: Keep your feet clear below the tripod until the entire mast has been de $oxed{\Omega}$ ployed and the base pole has been inserted. Slippage of the mast poles may occur if the Cam Lock is not secured properly, causing damage to objects located within the tripod area below the tripod.

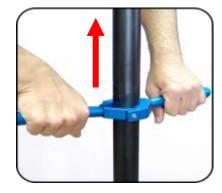




<u>Helpful Hint:</u> Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles.







Lift Handles BSM2-P-Y702-GRP-000

12. Raise the Rest of the Mast Poles

- A. Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the cam lock. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- B. Holding the bottom mast pole firmly with one hand, release the cam lock and allow the weight to settle onto the hand holding the just-added mast pole.
- C. Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the tripod.
- D. Lock the cam lock on the tripod.
- E. Repeat this process for the remaining mast poles or until desired height is reached.









13. Insert the Base Pole

- A. Get the base pole out of the pole bag and insert the silver end into the bottom mast pole already secured by the cam lock. Holding the base pole firmly with one hand, slowly release the cam lock and allow the weight to settle onto the hand holding the base pole.
- B. Permit the base bole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.
- C. Lock the cam lock.





14. Level the Mast and Adjust the Base Pole

- A. Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- B. Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.
- C. Do not loosen the turn knobs to adjust the legs while the mast is fully deployed.





15. Stake the Base Pole

- A. Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- B. Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- C. If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.





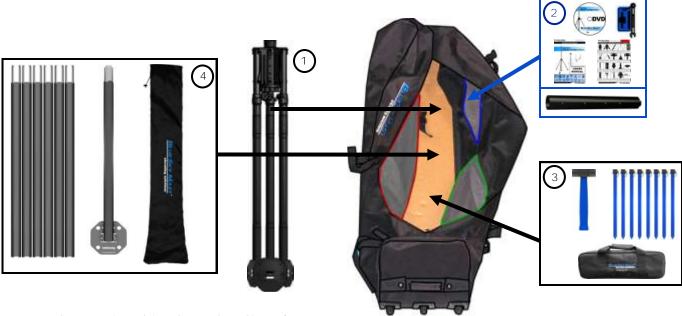
16. Secure the Area—Finished

- A. Secure any remaining cable to the mast.
- B. Attach BlueSky Surface Wire Grounding Kit (Part # BST2-K-L104-GND-000) if so equipped. See addendum in Manual for instructions.
- C. Stow any equipment and tools in the Wheeling Carry Bag to prevent loss.





Packing and Stowing the BlueSky Mast



1. Place Tripod in the Wheeling Carry Bag

- A. Place tripod in the bag.
- B. Rotate top leg so that base plate is vertical.
- C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.

2. Place the Small I tems in the Wheeling Carry Bag

A. Put the mounting pole and reference pack into the inside Blue Pocket.

Place Staking Kit Bag in the Wheeling Carry Bag

- A. Put 8 tripod stakes, and the hammer in the Staking Kit Bag.
- B. Place the Staking Kit Bag between the legs of the tripod.

4. Place Pole Bags in the Wheeling Carry Bag

- A. Put the Center Mast Poles and the Base Pole in the Pole Bag.
- B. Place the Pole Bag in the Wheeling Carry Bag on the left side of the tripod.

5. Secure the Wheeling Carry Bag

- A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
- B. Put any other ancillary devices in the bag at this time.
- C. Do not overload the bag or damage may occur.
- D. Zip up the main outside zipper and secure the 3 straps on the outside of the bag.



Deploying the Standard Series Mast with Primary Guying

(For Models 2 to 10 Meter Only)



1. Inspect the Site before Deployment

- A. Ensure that the following conditions are met prior to deployment:
 - 1. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.

2. Unpack the Wheeling Carry Bag

A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.

3. Set up and Orient the Tripod

- A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
- B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. For "Directionally Based Applications", face the direction that you want the device you are deploying to face. Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
- C. Release the Velcro strap on the tripod that holds the legs.
- D. Unfold the tripod legs
- E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.







4. Raise the Tripod

- A. Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- B. If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. (This may happen the 1st time a new mast is deployed and will abate with several uses.)
- C. Place the tripod back on the ground making sure all 3 base plates are flat and level.
- D. Tighten the turn knobs on each of the 3 telescoping legs





5. Level the Tripod

- A. Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- B. When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- C. If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- D. Fully tighten the turn knob on each leg.







Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm





6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR).
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.









7. Attach the Pole Bag to the Tripod Leg (Optional)

- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.



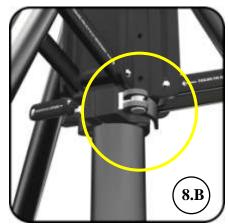


8. Insert the First Mast Pole

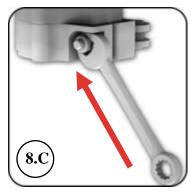
- A. Grab a mast pole and insert up through the bottom of the tripod until the silver insert of the mast pole is visible at least 4 inches above the top of the tripod.
- B. Secure the mast pole by locking the cam lock on the tripod.

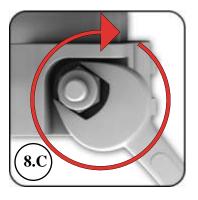






C. If slipping occurs with the cam lock while a pole is inserted, use the wrench provided and turn the nut a quarter turn until slipping no longer occurs.





9. Add the Mounting Pole

- A. Locate the mounting pole (it is 1/2 the length of a mast pole) and slide it over the silver insert of the first mast pole in the tripod.
- B. Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.











10. Add the Primary Guy Ring

- A. Locate the Red Primary Guy Ring and slide it over the top of the mounting pole. (Located in the Blue Zippered Pocket)
- B. Pin it into the last hole at the base of the mounting pole.
- C. Pull on the stainless steel push pin to make sure it has engaged properly.



11. Attach Your Device or Devices to the Mast

- A. Attach your devices to mounting pole.
- B. If using any BlueSky accessories then please refer to the accessory guide located in the manual for more information.
- C. Secure any loose cables to the mounting pole.



MARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

12. Attach the Primary Guy Ropes

- A. Locate the four primary guy ropes in the green zippered pocket of the wheeling carry bag and the four galvanized steel guy stakes in the black stake bag.
- B. Attach the stainless steel clip on the free end of the 1st primary guy rope to the round hole on the red primary guy ring.
- C. Unwind the 1st primary guy rope while walking away from the mast taking one normal step or pace for each meter of height of the mast. Example 10 meters equals 10 paces.
- D. Drive a guy stake into the ground at the length that you determined based on the previous step.
- E. Standing in place above the guy stake, unwind the rest of the guy rope off the handle and then attach the stainless steel clip onto the guy stake.





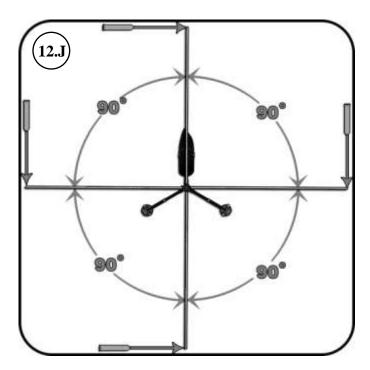
<u>Helpful Hint:</u> Walk the 1^{st} guy rope in the opposite direction of the sun. This will help you align the 2^{nd} guy rope (opposite of 1^{st} guy rope) without interference of the sun.

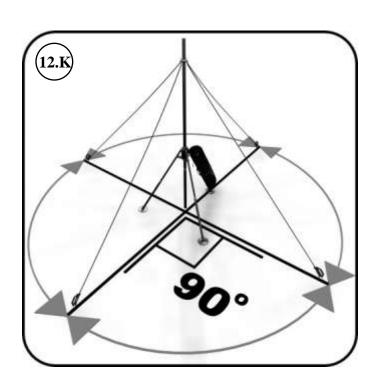




12. Attach the Primary Guy Ropes (continued)

- F. Attach the stainless steel clip on the free end of the 2nd primary guy rope to the square hole opposite the round hole on the red primary guy ring.
- G. Unwind the 2nd primary guy rope (opposite of 1st primary guy rope) at the same number of paces you used for the first guy rope.
- H. Visually confirm that the 2nd primary guy rope is in line with the 1st primary guy rope directly opposite the tripod.
- I. Drive a guy stake into the ground.
- J. Repeat the steps above until all four primary guy ropes have been properly deployed <u>90</u> <u>Degrees</u> from each other.
- K. When all guys have been deployed, inspect the spacing and orientation and make any adjustments now.





<u>Helpful Hint</u>: If you are deploying the mast to a shorter height than the purchased height or are in a tight spot, then see the guying addendum in this manual for help in determining your spacing and load specs.

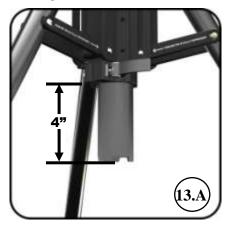




13. Raise the First Mast Pole

- A. Holding the first mast pole in the tripod, release the cam lock and raise until only 4 inches is visible below the tripod.
- B. Secure the mast pole by locking the cam lock.









Warning: Keep your feet clear below the tripod until the entire mast has been deployed and the base pole has been inserted. Slippage of the mast poles may occur if the Cam Lock is not secured properly, causing damage to objects located within the tripod area below the tripod.

14. Raise the Rest of the Mast Poles

- A. Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the cam lock. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- B. Holding the bottom mast pole firmly with one hand, release the cam lock and allow the weight to settle onto the hand holding the just-added mast pole.
- C. Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the tripod.
- D. Lock the cam lock on the tripod.
- E. Repeat this process for the remaining mast poles or until desired height is reached.











<u>Helpful Hint:</u> Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles. Lift Handles (BSM2-P-Y702-GRP-000)







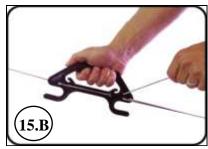
MARNING: If you experience excessive leaning during the deployment due to heavier loads or high winds then be sure to use incremental guying as outlined in step 15.

15. Incremental Guying (if required)

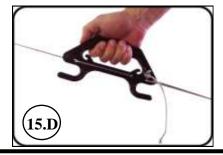
May be required when less than two people are available to hold the primary guy ropes during deployment with heavy loads or high winds.

Heavy loads or windy conditions can exert extra force on the center mast poles during deployment causing them to bind in the tripod and create potentially unsafe conditions. Excessive leaning during deployment is an indicator that incremental guying is required. When these conditions exist, it will be necessary to incrementally guy the mast during deployment before reaching the desired height. Incremental guying will add time to the deployment but will ensure the safety of both personnel and equipment

- A. Start with the guy rope that is opposite the direction that the mast may be leaning.
- B. Pull on the knotted end of the rope stay until you have removed enough slack from the line to allow only the insertion of a single mast pole.
- C. Tie a slip knot in the slack to prevent the line from pulling back through the hole on the rope stay.
- D. Adjust the guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- E. Adjust the remaining 3 primary guy ropes the same way to allow for only enough slack for a single mast pole to be inserted.
- F. Continue raising the mast sections utilizing incremental guying until the full height has been achieved.











16. Insert the Base Pole

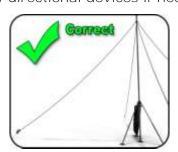
- A. Get the base pole out of the pole bag and insert the silver end into the bottom mast pole already secured by the cam lock. Holding the base pole firmly with one hand, slowly release the cam lock and allow the weight to settle onto the hand holding the base pole.
- B. Permit the base bole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.
- C. Lock the cam lock.

17. Adjust the Primary Guy Ropes

Adjust the guy ropes so that the mast is straight and perpendicular. If the guy ropes are too loose it will allow the mast to lean. If the guy ropes are too tight then they put unnecessary strain and load on the mast causing it to bend or bow. The tension should be firm, not slack nor taut.

- A. Adjust the primary guy ropes so that the mast is straight and perpendicular starting with the guy rope that is opposite the direction that the mast may be leaning.
- B. Adjust the primary guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- C. Adjust the remaining 3 primary guy ropes the same way to allow till the mast is straight and perpendicular.
- E. It may be necessary to do this several times until the mast is straight and perpendicular.
- F. Rotate the mast to align any directional devices if necessary.



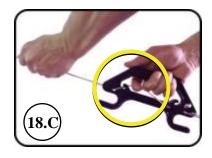


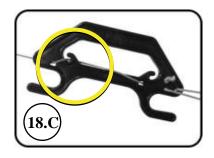


18. Locking & Securing the Primary Guy Ropes.

- A. Make sure the mast is completely straight and perpendicular to the ground.
- B. Pull a small amount of slack in the line.
- C. Grab the rope and wrap it around the rope lock to secure the Primary Guy Ropes









19. Level the Mast and Adjust the Base Pole

- A. Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- B. Secure the base pole in the tripod by gripping the knurled section of the top of the tripod with one hand and while applying slightly downward force, use the other hand to lock the Cam Lock.
- C. Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.





20. Stake the Base Pole

- A. Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- B. Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- C. If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.





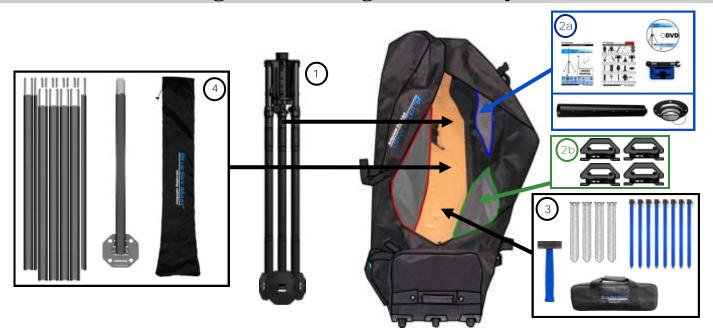
20. Secure the Area-Finished

- A. Secure any remaining cable to the mast.
- B. Attach BlueSky Surface Wire Grounding Kit (Part # BST2-K-L104-GND-000) if so equipped. See addendum in Manual for instructions.
- C. Stow any equipment and tools in the Wheeling Carry Bag to prevent loss.





Packing and Stowing the BlueSky Mast



1. Place Tripod in the Wheeling Carry Bag

- A. Place tripod in the bag.
- B. Rotate top leg so that base plate is vertical.
- C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.

2. Place the Small I tems in the Wheeling Carry Bag

- A. Put the mounting pole, primary guy ring and reference pack into the inside Blue Pocket.
- B. Place the 4 guy ropes in the inside Green Zippered Pocket.

3. Place Staking Kit Bag in the Wheeling Carry Bag

- A. Put 4 guy stakes, 8 tripod stakes, and the hammer in the Staking Kit Bag.
- B. Place the Staking Kit Bag between the legs of the tripod.

4. Place Pole Bags in the Wheeling Carry Bag

- A. Put the Center Mast Poles and the Base Pole in the Pole Bag.
- B. Place the Pole Bag in the Wheeling Carry Bag on the left side of the tripod.

5. Secure the Wheeling Carry Bag

- A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
- B. Put any other ancillary devices in the bag at this time.
- C. Do not overload the bag or damage may occur.
- D. Zip up the main outside zipper and secure the 3 straps on the outside of the bag.





Deploying the Standard Series Mast with Primary and Secondary Guying

(For Models 2 to 15 Meter)



1. Inspect the Site before Deployment

- A. Ensure that the following conditions are met prior to deployment:
 - 1. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.

2. Unpack the Wheeling Carry Bag

A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.

3. Set up and Orient the Tripod

- A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
- B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. For "Directionally Based Applications", face the direction that you want the device you are deploying to face. Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
- C. Release the Velcro strap on the tripod that holds the legs.
- D. Unfold the tripod legs
- E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.







4. Raise the Tripod

- A. Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- B. If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. (This may happen the 1st time a new mast is deployed and will abate with several uses.)
- C. Place the tripod back on the ground making sure all 3 base plates are flat and level.
- D. Tighten the turn knobs on each of the 3 telescoping legs

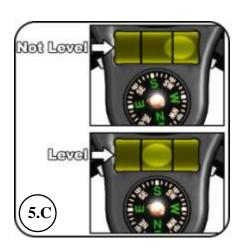




5. Level the Tripod

- A. Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- B. When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- C. If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- D. Fully tighten the turn knob on each leg.





 \triangle

Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm





6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR).
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.









7. Attach the Pole Bag to the Tripod Leg (Optional)

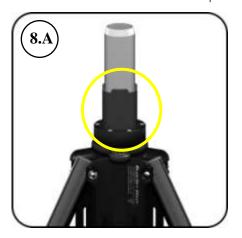
- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.



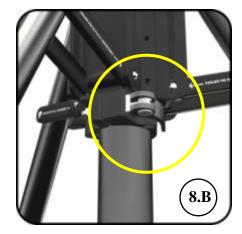


8. Insert the First Mast Pole

- A. Grab a mast pole and insert up through the bottom of the tripod until the silver insert of the mast pole is visible at least 4 inches above the top of the tripod.
- B. Secure the mast pole by locking the cam lock on the tripod.







C. If slipping occurs with the cam lock while a pole is inserted, use the wrench provided and turn the nut a quarter turn until slipping no longer occurs.





9. Add the Mounting Pole

- A. Locate the mounting pole (it is 1/2 the length of a mast pole) and slide it over the silver insert of the first mast pole in the tripod.
- B. Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.









10. Add the Secondary Guy Ring

- A. Locate the Blue Secondary Guy Ring (Located in the Blue Zippered Pocket of the Wheeling Carry Bag).
- B. Release the cam lock on the Blue Secondary Guy Ring and slide it over the top of the mounting pole until it rests on top of the tripod. DO NOT lock it into place at this time.

11. Add the Primary Guy Ring

- A. Locate the Red Primary Guy Ring (Located in the Blue Zippered Pocket of the Wheeling Carry Bag).
- B. Remove the push pin and slide it over the top of the mounting pole.
- C. Pin it to the last hole on the bottom of the mounting pole.

12. Attach Your Device or Devices to the Mast

- A. Attach your devices to mounting pole.
- B. If using any BlueSky accessories then please refer to the proper mounting instructions for your specific accessory located in the addendum of this manual.
- C. Secure any loose cables to the mounting pole.



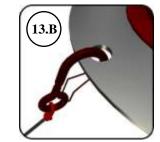




WARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

13. Attach the Primary Guy Ropes

- A. Locate the four primary guy ropes in the green zippered pocket of the wheeling carry bag and the four galvanized steel guy stakes in the black stake bag.
- B. Attach the stainless steel clip on the free end of the 1st primary guy rope to the round hole on the red primary guy ring.
- C. Unwind the 1st primary guy rope while walking away from the mast taking one normal step or pace for each meter of height of the mast. Example 10 meters equals 10 paces.
- D. Drive a guy stake into the ground at the length that you determined based on the previous step.
- E. Standing in place above the guy stake, unwind the rest of the guy rope off the handle and then attach the stainless steel clip onto the guy stake.





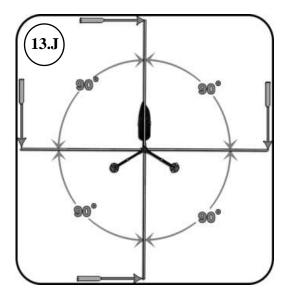
<u>Helpful Hint:</u> Walk the 1^{st} guy rope in the opposite direction of the sun. This will help you align the 2^{nd} guy rope (opposite of 1^{st} guy rope) without interference of the sun.

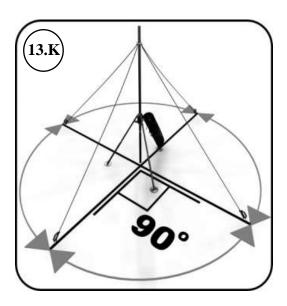




13. Attach the Primary Guy Ropes (continued)

- F. Attach the stainless steel clip on the free end of the 2nd primary guy rope to the square hole opposite the round hole on the red primary guy ring.
- G. Unwind the 2nd primary guy rope (opposite of 1st primary guy rope) at the same number of paces you used for the first guy rope.
- H. Visually confirm that the 2^{nd} primary guy rope is in line with the 1^{st} primary guy rope directly opposite the tripod.
- I. Drive a guy stake into the ground.
- J. Repeat the steps above until all four primary guy ropes have been properly deployed <u>90</u> <u>Degrees</u> from each other.
- K. When all guys have been deployed, inspect the spacing and orientation and make any adjustments now.





<u>Helpful Hint</u>: If you are deploying the mast to a shorter height than the purchased height or are in a tight spot, then see the guying addendum in this manual for help in determining your spacing and load specs.



14. Raise the First Mast Pole

- A. Holding the first mast pole in the tripod, release the cam lock and raise until only 4 inches is visible below the tripod.
- B. Secure the mast pole by locking the cam lock.









Warning: Keep your feet clear below the tripod until the entire mast has been deployed and the base pole has been inserted. Slippage of the mast poles may occur if the Cam Lock is not secured properly, causing damage to objects located within the tripod area below the tripod.

15. Raise the rest of the Mast Poles

- A. Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the cam lock. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- B. Holding the bottom mast pole firmly with one hand, release the cam lock and allow the weight to settle onto the hand holding the just-added mast pole.
- C. Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the tripod.
- D. Lock the cam lock on the tripod.
- E. Repeat this process until it is time to engage the Blue Secondary Guy Ring at 1/2 the total height of the mast.





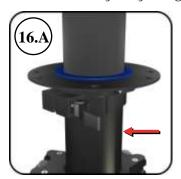






16. Secondary Guying - Securing the Secondary Guy Ring

- A. When you have reached 1/2 the total height of the mast, stop and lock the cam lock on the bottom of the tripod.
- B. Locate the Blue Secondary Guy Ring on top of the tripod and lock the cam lock.





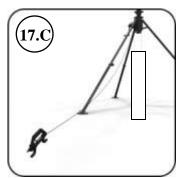
17. Secondary Guying - Deploying the Secondary Guy Ropes

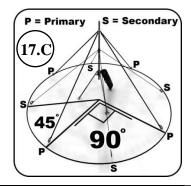
- A. Locate the four secondary guy ropes in the green zipper pocket of the wheeling carry bag.
- B. Attach the blue stainless steel clip on the free end of the 1st Secondary Guy Rope to the round hole on the Blue Secondary Guy Ring.





- C. Walk away from the mast while unwinding all of the guy rope from the handle. Place the 1st Secondary Guy Rope on the ground in between two of the Primary Guy Ropes so that it is at a 45 degree angle from the Primary Guy Ropes. DO NOT stake the Secondary Guy Ropes at this time.
- D. Repeat this process until all 4 Secondary Guy Ropes are deployed. DO NOT stake the Secondary Guy Ropes at this time, they will be adjusted and staked at the end of the mast deployment.









<u>Helpful Hint:</u> Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles. Lift Handles (BSM2-P-Y702-GRP-000)





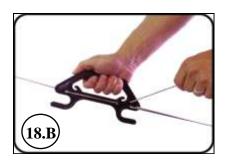


WARNING: If you experience excessive leaning during the deployment due to heavier loads or high winds then be sure to use incremental guying as outlined in step 15.

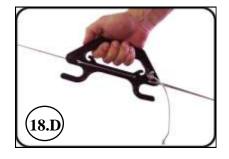
18. Incremental Guying may be required when less than two people are available to hold the primary guy ropes during deployment with heavy loads or high winds.

Heavy loads or windy conditions can exert extra force on the center mast poles during deployment causing them to bind in the tripod and create potentially unsafe conditions. Excessive leaning during deployment is an indicator that incremental guying is required. When these conditions exist, it will be necessary to incrementally guy the mast during deployment before reaching the desired height. Incremental guying will add time to the deployment but will ensure the safety of both personnel and equipment

- A. Start with the guy rope that is opposite the direction that the mast may be leaning.
- B. Pull on the knotted end of the rope stay until you have removed enough slack from the line to allow only the insertion of a single mast pole.
- C. Tie a slip knot in the slack to prevent the line from pulling back through the hole on the rope stay.
- D. Adjust the guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- E. Adjust the remaining 3 primary guy ropes the same way to allow for only enough slack for a single mast pole to be inserted.
- F. Continue raising the mast sections utilizing incremental guying until the full height has been achieved.









19. Continue raising the mast (Incremental Guying may be required)

A. Continue raising the mast until you have reach desired height and you are ready to insert the base pole.

20. Insert the Base Pole

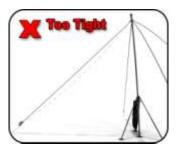
- A. Get the base pole out of the pole bag and insert the silver end into the bottom mast pole already secured by the cam lock. Holding the base pole firmly with one hand, slowly release the cam lock and allow the weight to settle onto the hand holding the base pole.
- B. Permit the base bole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.
- C. Lock the cam lock.

21. Adjust the Primary Guy Ropes

- A. Adjust the primary guy ropes so that the mast is straight and perpendicular starting with the guy rope that is opposite the direction that the mast may be leaning.
- B. Adjust the primary guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- C. Adjust the remaining 3 primary guy ropes the same way to allow till the mast is straight and perpendicular.
- E. It may be necessary to do this several times till the mast is straight and perpendicular.
- F. Rotate the mast to align any directional devices if necessary.



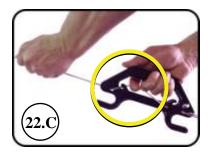


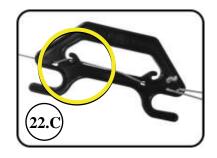


22. Locking & Securing the Primary Guy Ropes.

- A. Make sure the mast is completely straight and perpendicular to the ground.
- B. Pull a small amount of slack in the line.
- C. Grab the rope and wrap it around the rope lock to secure the Primary Guy Ropes











23. Level the Mast and Adjust the Base Pole

- A. Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- B. Secure the base pole in the tripod by gripping the knurled section of the top of the tripod with one hand and while applying slightly downward force, use the other hand to lock the Cam Lock.
- C. Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.

24. Stake the Base Pole

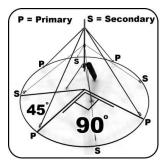
- A. Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- B. Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- C. If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.



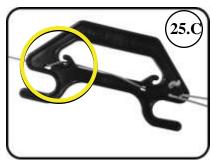


25. Final Step - Staking, Adjusting and Locking the Secondary Guy Ropes

- A. Locate the 4 Guy Stakes in the staking kit bag.
- B. Confirm all 4 Secondary Guys are evenly placed at a 45 degree angle between the Primary Guy Ropes.
- C. Pull each of the Secondary Guy Ropes out to its fullest distance and drive a guy stake into the ground. Attach, adjust and lock the guy rope into position.

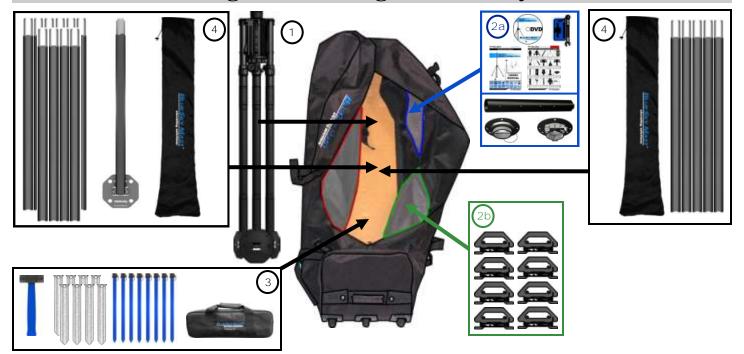








Packing and Stowing the BlueSky Mast



1. Place Tripod in the Wheeling Carry Bag

- A. Place tripod in the bag.
- B. Rotate top leg so that base plate is vertical.
- C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.

2. Place the Small I tems in the Wheeling Carry Bag

- A. Put the mounting pole, primary & secondary guy rings and reference pack into the inside Blue Pocket.
- B. Place the 8 guy ropes in the inside Green Zippered Pocket.

3. Place Staking Kit Bag in the Wheeling Carry Bag

- A. Put 8 guy stakes, 8 tripod stakes, and hammer in the Staking Kit Bag.
- B. Place the Staking Kit Bag between the legs of the tripod.

4. Place Pole Bags in the Wheeling Carry Bag

- A. Put the Center Mast Poles and the Base Pole in the 2 Pole bags.
- B. Place the Pole Bags in the Wheeling Carry Bag, one to each side of the tripod.





4. Place Primary Stake Bag in the Wheeling Carry Bag

- A. Put the blue tripod stakes, 4 guy stakes and hammer in the small black stake bag.
- B. Place the stake bag between the legs of the tripod with the drawstring at the top.

5. Place the 1st Pole Bag in the Wheeling Carry Bag

- A. Put 1/2 the mast poles in the 1st pole bag
- B. Place the pole bag in the wheeling carry bag to the right of the tripod

6. Place the 2nd Pole Bag in the Wheeling Carry Bag

- A. Put the 1/2 the poles and the base pole in the 2nd pole bag
- B. Place the pole bag in the wheeling carry bag to the left of the tripod

7. Secure the Wheeling Carry Bag

- A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
- B. Put any other ancillary devices in the bag at this time.
- C. Do not overload the bag or damage may occur.
- D. Zip up the main outside zipper and secure the 3 straps on the outside of the bag.



Grounding Deployment Instructions

Surface Wire Grounding Kit - BST2-K-L104-GND-000

Contents of Surface Wire Grounding Kit









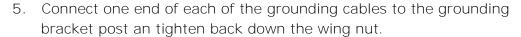
Grounding Bracket BST2-P-B205-GND-000

Stainless Steel Cable w/Stakes BST2-P-C225-GND-000

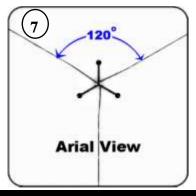
Grounding Bag BST2-B-P300-BAG-GND

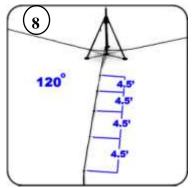
GROUNDING DEPLOYMENT INSTRUCTIONS

- 1. Locate grounding bracket and attach to the base pole of the mast.
- 2. The grounding bracket should be attached to the middle of the base pole to provide the best grounding.
- 3. Locate the grounding cables and place them at the base of the mast.
- 4. Remove the wing nut from the post without the Bronze ECLE connector

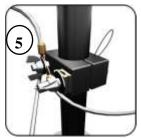


- 6. If additional equipment grounds are required, attach them to the Bronze ECLE connector.
- 7. Extend the grounding cables away from the base pole at 120 degree angles from each other.
- 8. Position the 1st stake of each cable at the free end furthest from the base of the mast.
- 9. Evenly space the remaining stakes of each cable at an interval of 4.5 ft.
- 10. Hammer the stakes into the ground making sure that the head of each stake contacts the ground.













Lift Handle Instructions



LIFT HANDLE DEPLOYMENT INSTRUCTIONS

- A. Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the cam lock. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- B. Holding the bottom mast pole firmly with one hand, slowly release the cam lock and allow the pole to slide down and rest firmly on the ground.
- C. Locate the male lift handle and place it at the bottom of mast pole on the ground 5 inches from the bottom. Do not use the bottom 5 inches of the mast pole.
- D. Interlock the female lift handle with the male lift handle and lift the mast pole up.
- E. Engage the Cam Lock on the tripod and release the mast pole slowly to make sure that it does not slide down in the tripod. If it does begin to slide down, check that the cam lock is engaged fully or make adjustments as needed.
- F. Repeat this process for the remaining mast poles or until desired height is reached.





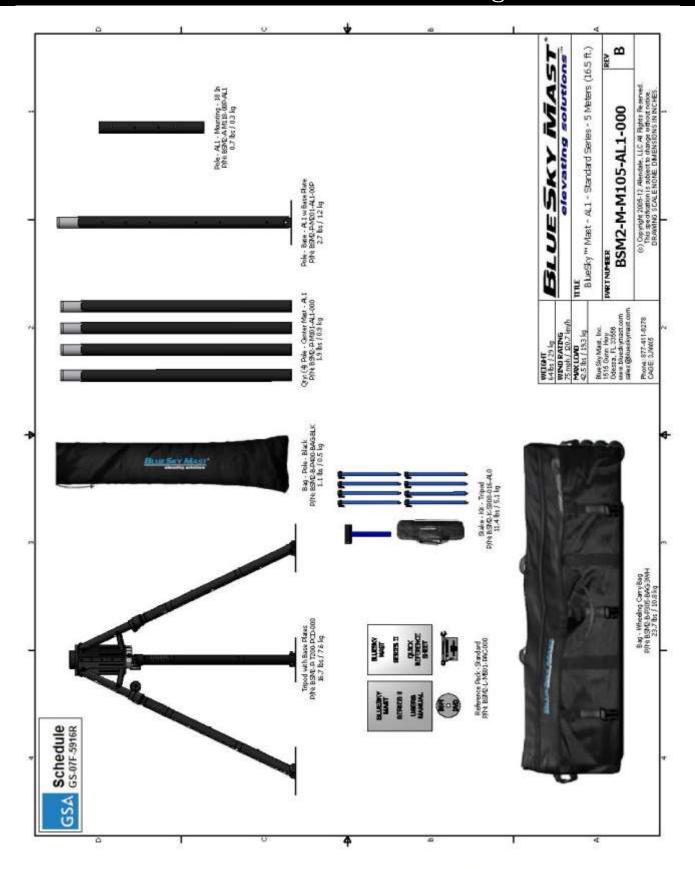




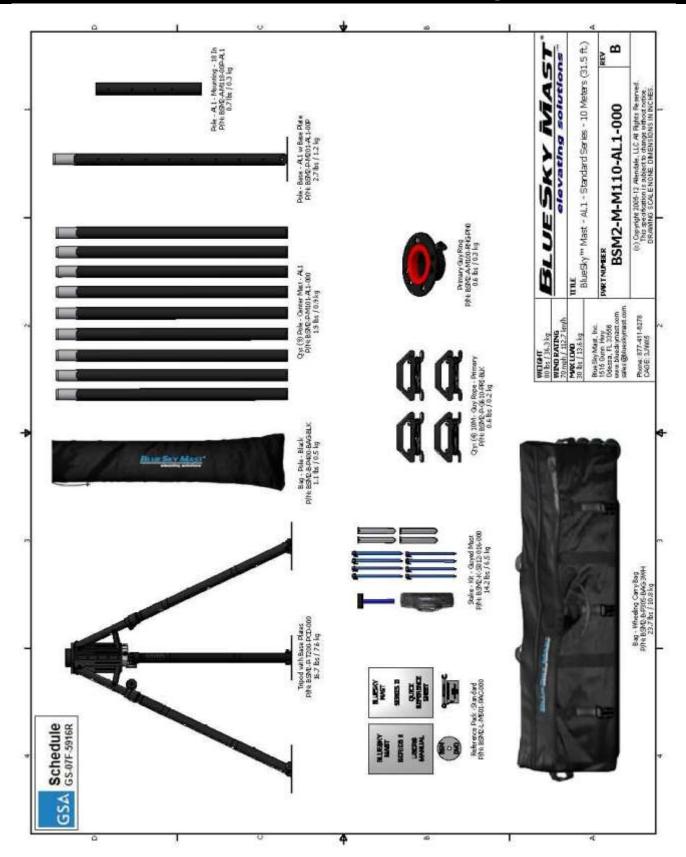




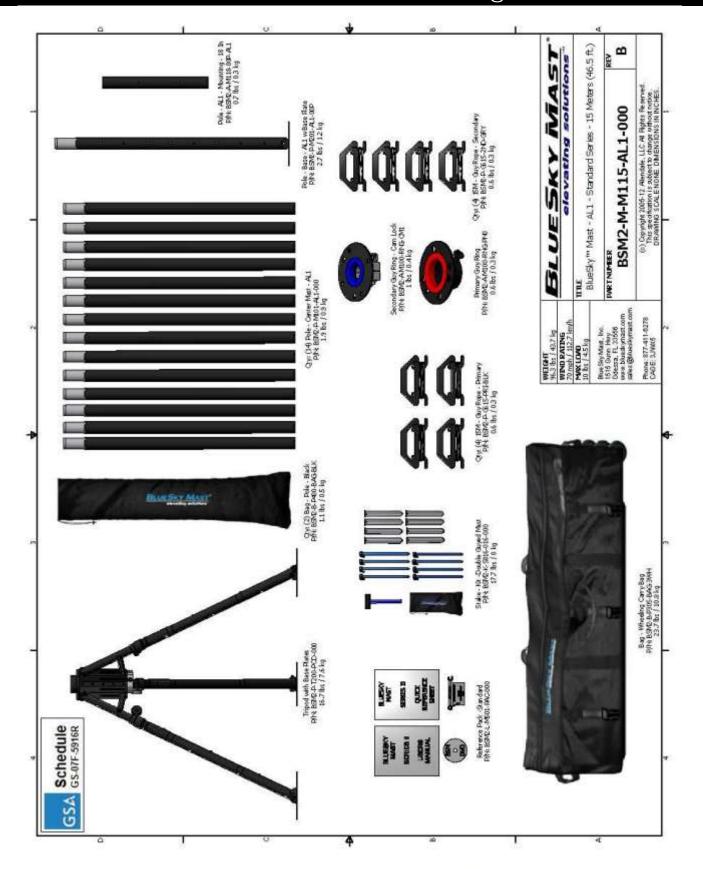




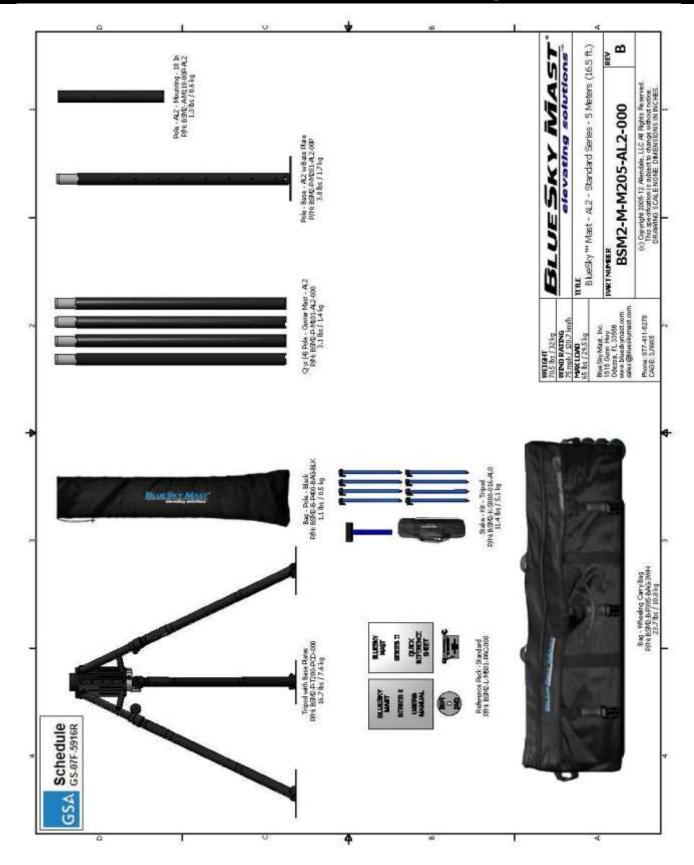




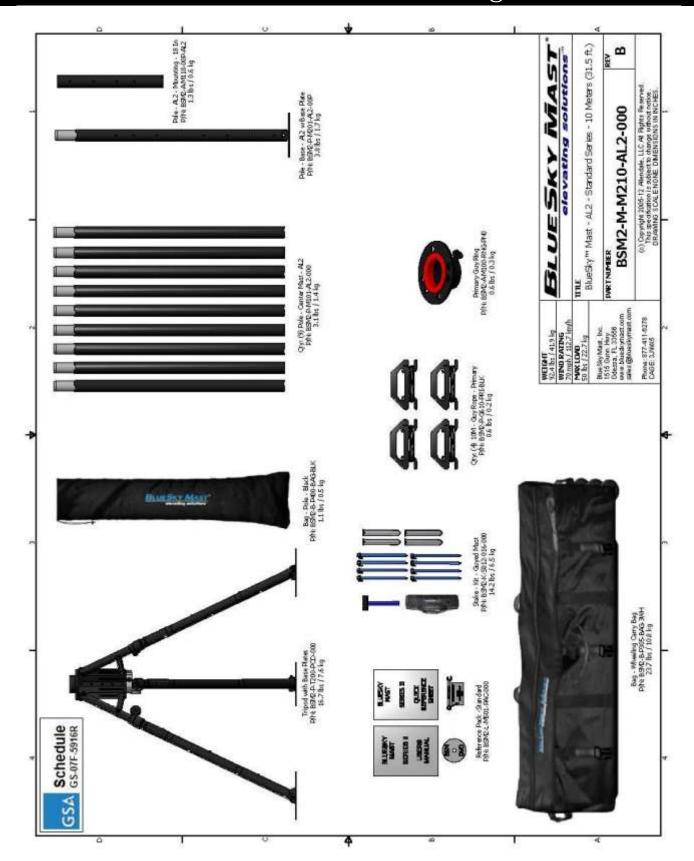




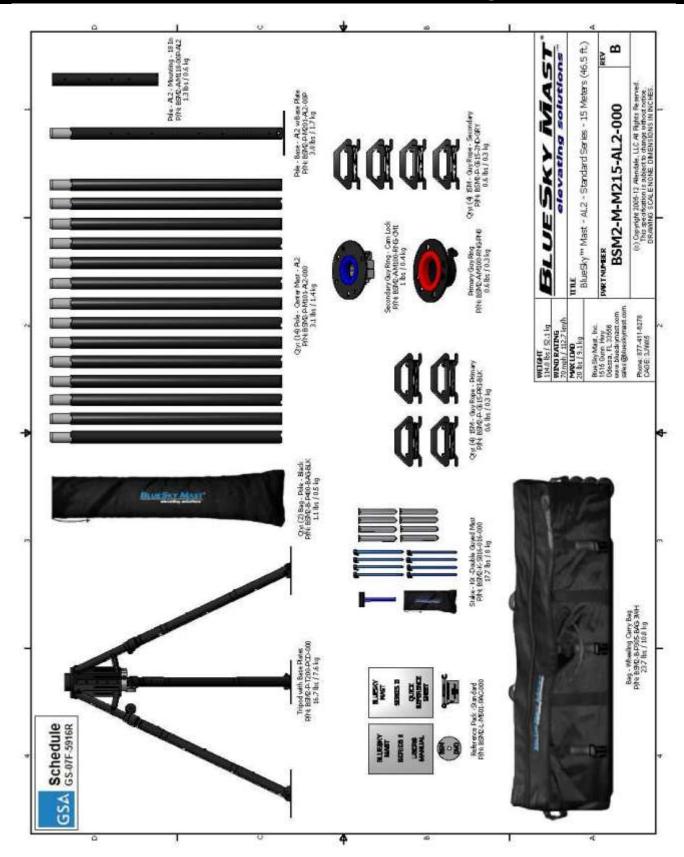














ONE MAST INFINITE CONFIGURATIONS

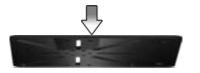
Top Plates and Adaptors





Top Adaptors

Your Device Mounted Here



Mounting Plate

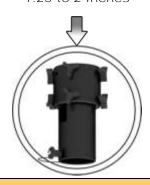


Pin On Threaded Adaptor BSM2-A-M510-PIN-000



Mounting Pole

Antenna or Device 1.25 to 2 Inches



Pin On Pole Adaptor BSM2-P-M20-MPA-000



Mounting Pole

COM201B or OE254 Antenna

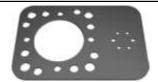


Pin On COM201B/OE254 Insulated Adaptor BSM2-A-M510-PIN-000



Mounting Pole

Top Plates (Not All Plates Shown)



NATO (Plate Only) BSM2-A-M305-NTO-000



NATO (w/Adaptor) BSM2-A-M305-NTO-00A



11 x 11 (Plate Only) BSM2-A-M411-MPP-000



11 x 11 (w/Adaptor) BSM2-A-M411-MPP-00A



Cross Pattern (Plate Only) BSM2-A-M408-MPP-000



Cross Pattern (w/Adaptor)



Cisco (Plate Only)



Cisco (w/Adaptor) BSM2-A-M410-CSC-00A



7.5 x 7.5 (Plate Only) BSM2-A-M407-WPP-000



7.5 x 7.5 (w/Adaptor) BSM2-A-M407-MPP-00A



Radar (Plate Only) BSM2-A-M400-MPP-RDR



Radar (w/Adaptor) BSM2-A-M400-MPP-RDA

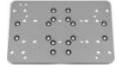




RadioWaves SPD-5.2NS BSM2-A-M416-RWV-000



TracPhone KVH-V7



Hoffman NEMA Plate BSM2-A-M412-HFM-000



Pelco and LRTI Plate BSM2-A-M450-SAC-000

BSM2-K-M309-MPP-TRC





Universal Pole Mounts and Brackets



Universal Pole Mount (Dual Sided) BSM2-P-A352-T00-000



Position Universal Pole Mount (s) Anywhere on the Mast



Secure the Universal Pole Mount by latching and tightening the turn knobs

AND





Dual Sided



Universal Articulating
Arm Bracket



Universal Tilt Bracket



Universal Plate Bracket



Universal Tilt Bracket BSM2-P-A349-BRK-000



or Universal Plate Bracket Here

Mounting Plate



Mounting Plate or Plate Bracket can be Mounted to the Universal Tilt Bracket



Universal Plate Bracket BSM2-P-A348-BRK-000



Universal Plate Bracket connects to the Universal Pole Mount or Universal Tilt Bracket



Mounting Plate Here

Mounting Plate connects directly to Universal Plate Bracket



Universal Articulating Arm Bracket BMS2-P-A350-BRK-000







Universal Pole Kits



Single with Bolster Plate

(1) Universal Pole Mount Dual Sided, (1) Universal Articulating Arm Bracket, (1) Slotted Side Arm, (1) Bolster Plate, Accessory Bag

6 Inch Arm Kit	BSM2-K-A351-T06-BOL
12 Inch Arm Kit	BSM2-K-A351-T12-BOL
24 Inch Arm Kit	BSM2-K-A351-T24-BOL
36 Inch Arm Kit	BSM2-K-A351-T36-BOL
44 Inch Arm Kit	BSM2-K-A351-T44-BOL



Dual with Bolster Plates

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) Bolster Plates, Accessory Bag

6 Inch Arm Kit	BSM2-K-A352-T06-BOL
12 Inch Arm Kit	BSM2-K-A352-T12-BOL
24 Inch Arm Kit	BSM2-K-A352-T24-BOL
36 Inch Arm Kit	BSM2-K-A352-T36-BOL
44 Inch Arm Kit	BSM2-K-A352-T44-BOL

Optional Pole Mounts - For Use with Bolster Plate (s)

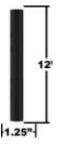








1.25 Inch Pole Kit BSM2-K-A125-POL-EM0







Universal Pole Kits



Dual with NATO Side Mounts

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) NATO Side Mounts, Accessory Bag

6 Inch Arm Kit BSM2-K-A352-T06-NTO

12 Inch Arm Kit BSM2-K-A352-T12-NTO

24 Inch Arm Kit BSM2-K-A352-T24-NTO

36 Inch Arm Kit BSM2-K-A352-T36-NTO

44 Inch Arm Kit BSM2-K-A352-T44-NTO



Dual with COM201B/OE254 Side Mounts

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) COM201B/OE254 Side Mounts, Accessory Bag

44 Inch Arm Kit

BSM2-K-A352-T44-OE2



Dual Com201B Pole Mount Kit with COM201B Antennas





Universal Pole Kits







Single (NO SIDE MOUNT)

(1) Universal Pole Mount Dual Sided, (1) Universal Articulating Arm Bracket, (1) Slotted Side Arm, Accessory Bag

	ū		, ,
6 Inch Arm Kit		BS	M2-K-A351-T06-10
12 Inch Arm Kit		BS	M2-K-A351-T12-10
24 Inch Arm Kit		BS	M2-K-A351-T24-10
36 Inch Arm Kit		BS	M2-K-A351-T36-10
44 Inch Arm Kit		BS	M2-K-A351-T44-10











Dual (NO SIDE MOUNTS)

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, Accessory Bag

6 Inch Arm Kit	BSM2-K-A352-T06-100
12 Inch Arm Kit	BSM2-K-A352-T12-100
24 Inch Arm Kit	BSM2-K-A352-T24-100
36 Inch Arm Kit	BSM2-K-A352-T36-100
44 Inch Arm Kit	BSM2-K-A352-T44-100











Adjustable Cup Holder BSM2-P-A100-CUP-EM0

COM201B/OE254 BSM2-K-M400-OE2-EM0

NATO Side Mount BSM2-P-M305-NTO-EM0

Bolster Plate BSM2-P-A101-BOL-EM0 Cross Pattern Side Mount BSM2-A-M408-MPP-EM0





Universal Side Mounts

Side Mount connects to the end of Slotted Side Arm







Side Mount





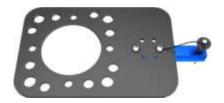


Bolster Plate BSM2-P-A101-BOL-EM0

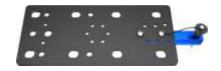
COM201B/OE254 Side Mount BSM2-K-M400-OE2-EM0

Adjustable Cup Holder BSM2-P-A100-CUP-EM0

Plates with Side Mounts (more available online)





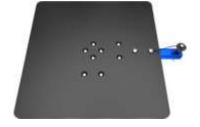


NATO Side Mount BSM2-A-M305-NTO-EM0

Cross Pattern Side Mount BSM2-A-M408-MPP-EM0

Cisco Side Mount BSM2-A-M410-CSC-EM0







7.5 x 7.5 Side Mount BSM2-A-M407-MPP-EM0

11 x 11 Side Mount BSM2-A-M411-MPP-EM0

2 Inch Pole Kit BSM2-K-A200-POL-EM0 1.25 Inch Pole Kit BSM2-K-A125-POL-EM0



Specialty Items

Mechanical Lift Kit (AL2 Only) BSM2-K-L100-LFT-000



Small Lift Kit Winch



Lift Kit Base Plate



Winch Handle



Upper / Lower Winch Mounts



Anti Rotation Turn Knobs



Ball Stop Holder

Specialty Items





Tilt Assembly BSM2-K-M550-PIN-000



HF Pulley Kit BSM2-K-P500-PUL-000



Lift Handles



Rotational Tilt Plate - Single Swivel

BSM2-P-Y702-GRP-000





Pin On Bracket BSM2-P-M500-PIN-000

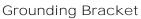


Motorola PTP Mounting Kit BSM2-K-M415-MOT-000



Grounding







25 Ft. Stainless Steel Cable w/ Stakes



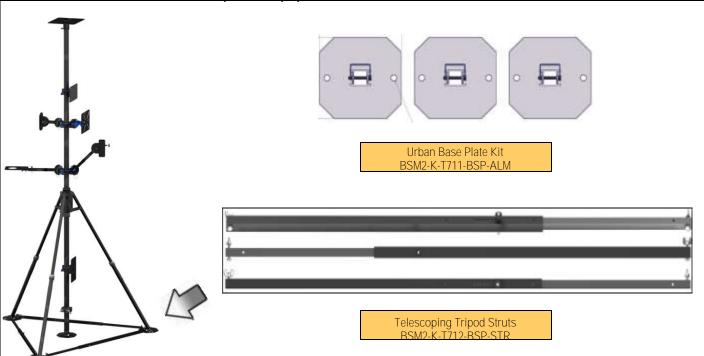
Grounding Accessory Bag



Lightning Air Terminal

BST2-K-L104-GND-000
BST2-B-P300-BAG-GND
BST2-P-B205-GND-000
BST2-P-C225-GND-000
BST2-B-P300-BAG-GND

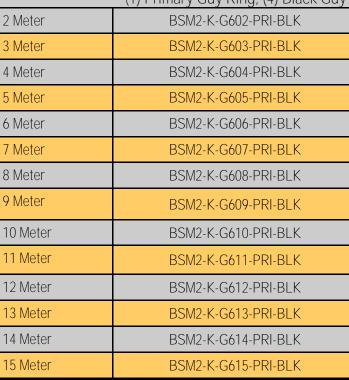
Rooftop Supports and Base Plates





Primary Guy Kits

(1) Primary Guy Ring, (4) Black Guy Ropes, (4) Guy Stakes, Accessory Bag







Guy Ropes (Black)
(Part # based on length)

Galvanized Steel Stakes BSM2-P-G700-STA-000





Pin On Guy Ring BSM2-A-M100-RNG-PNO

Black Stake Bag

Secondary Guy Kits

(1) Secondary Guy Ring "Compression", (4) Grey Guy Ropes, (4) Guy Stakes, Accessory Bag



Guy Ropes (Grey) (Part # based on length)

Galvanized Steel Stakes BSM2-P-G700-STA-000





Compression Guy Ring BSM2-A-M100-RNG-CMO

Grey Stake Bag

2 Meter	BSM2-K-G602-2ND-GRY
3 Meter	BSM2-K-G603-2ND-GRY
4 Meter	BSM2-K-G604-2ND-GRY
5 Meter	BSM2-K-G605-2ND-GRY
6 Meter	BSM2-K-G606-2ND-GRY
7 Meter	BSM2-K-G607-2ND-GRY
8 Meter	BSM2-K-G608-2ND-GRY
9 Meter	BSM2-K-G609-2ND-GRY
10 Meter	BSM2-K-G610-2ND-GRY
11 Meter	BSM2-K-G611-2ND-GRY
12 Meter	BSM2-K-G612-2ND-GRY
13 Meter	BSM2-K-G613-2ND-GRY
14 Meter	BSM2-K-G614-2ND-GRY
15 Meter	BSM2-K-G615-2ND-GRY



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