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Quick Mast Surveillance Platform

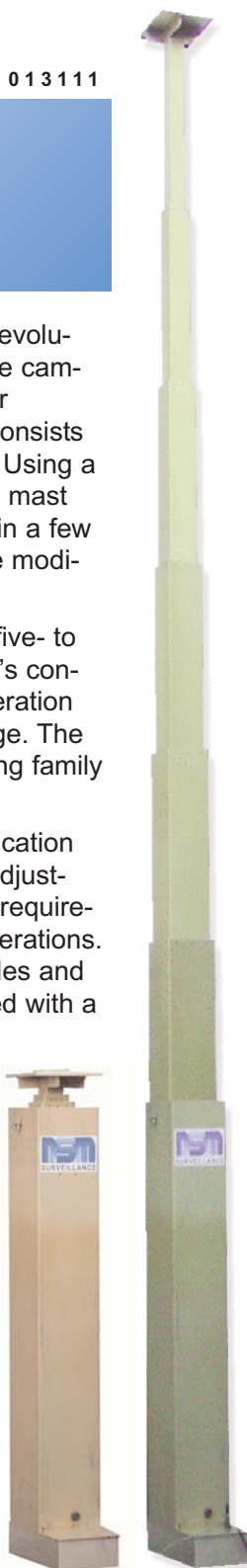
The Quick Mast Surveillance Platform is a revolutionary design for deployment of surveillance cameras or other sensor systems in an Urban or Combat situation. The Quick Mast system consists of seven tubes nested one inside the other. Using a unique power and cable control system, the mast can be extended and locked into place within a few seconds. The design is scalable and can be modified to handle increased height or payload.

The Quick Mast can extend or retract from five- to 17-feet in just 4.0 seconds. The Quick Mast's controlled deceleration and damping during operation protects the payload equipment from damage. The system can be installed on any of the existing family of Army tactical vehicles.

Quick Mast is the best solution for any application that requires rapid response and constant adjustment of camera or sensor height for critical requirements such as force protection or SWAT operations. Mounting options can suit a variety of vehicles and requirements. The lower section can be fitted with a shroud to protect the sensor during transit.

Differentiators

- High speed operation with deceleration control and damping to protect the payloads from harmful shocks during deployment.
- Minimal flexing when extended.
- Very quiet performance.
- Low power consumption.
- No external cables or coax to obstruct the tower segments during extension or retraction.
- "Powerless" emergency retraction.



Standard Features

- User selectable deployment height.
- Ruggedized for long service life.
- 50 lb payload capacity.
- Suitable for camera, radar, microwave antennas and other communications systems.
- Mast mechanically holds payload at any height. Sections telescope uniformly.
- Typical sail area = 4 sq ft; operational up to 50 mph wind speed.
- Erection or retraction time - based on typical payload/height combination = 4.0 seconds.

This model of the NSMS Quick Mast can extend from a compressed 5-foot-tall to a height of 17 feet, as shown. The nested mast tubes lock automatically at any height. The tower can be fully retracted in a "no power" emergency.

Specifications

Extended Height	17ft/5.2 m
Nested Height	5 ft/ 1.5 m
Nested Volume	4.71 cu ft/0.1 cu m
Payload Capacity	50 lbs/22.1 kg
Extension time	4.0 seconds
Retraction time	4.0 seconds
Payload Sail area	4 sq ft/0.34 sq m
Operational Wind Speed	50 mph/ 80.5 km/hr
Survival Wind speed	80 mph/ 129 km/hr
Weight (less payload)	170 lbs/77.11 kg
Foot Print	9.6x19.9 in/24.5x50.6 cm
Operating Temp Range	-40 F/C - 140F/60C
Power for full extension	300 watts
Operating Voltage Range	16 VDC to 30 VDC

Specifications subject to change without notice. The Quick Mast can be scaled to meet customer requirements; contact factory