

Remotely Deployable Surveillance System

Description

The Remotely Deployable Surveillance System consists of a remotely deployed, portable, ruggedized video and data surveillance unit. The surveillance system communicates through either an in-vehicle or portable command console utilizing COFDM digital wireless transmission systems. The unit consists of a telescopic camera mast of up to 1.85 m in height, deploying a pan/tilt camera unit with spot light. Additional sensor functionality is extended through CAN/Ethernet and Serial Data ports. On full extension stabilization legs are extruded to ensure stability. The wheeled unit with extendible handle allows for easy maneuverability and placement. The unit is encased in a rugged IP-65 housing and provides high-performance video and data streams even under the harshest conditions.

Problem

Situation blindness may often lead to circumstances in which life may be endangered.

Solution

The Stand Alone Camera System allows for an easily deployable remote camera and data system, in which the operator can safely control and monitor the device from the security of a vehicle. Remotely observing operational capabilities ensures mission success, while maintaining operator safety. The system provides increased safety of the personnel once camera system is deployed.

Height [Extended]	1880mm
Height [Retracted]	850mm
Length	238mm
Width	595mm
Weight	19.5kg



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Features

- Portable 'Easy to carry' unit
- Ruggedized
- Shock, vibration, water and dust resistant
- Wheel mounted for ease of transport
- Easily extendible mast [even when wearing gloves]
- <30 seconds deploy capability
- Pan/Tilt camera unit with 360° rotation and 180° tilt
- Nitrogen purged Colour zoom camera
- Secure digital COFDM transmission
- Portable unit or vehicle mast mounted kit, complete with vehicle design and systems integration
- Operational Frequency – LBand [typically 1.1 – 1.5GHz]
- 1km range non-line of sight operation
- Extendible Camera Height up to 1.85m
- Extendable Sensor capabilities through CAN, Ethernet and Serial Ports



Communications

The Stand Alone Camera system communicates with and is controlled by either a portable command console or vehicle mounted command console system. Basic deployment is enabled with a hand controlled unit. Video and control signals are transmitted using a digital COFDM link. OFDM [Orthogonal Frequency Division Multiplexing] transmission technology provides a superior means of transmitting wireless information in high multi-path environments. OFDM systems use 2000 carriers within the main signal which may be modulated in one of several ways. The loss of one or more carriers may have no impact on the video received. The system also uses Forward Error Correction coding, further increasing signal reliability [COFDM].



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