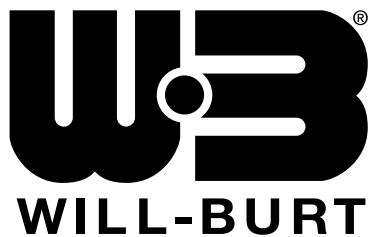




# MOBILE VIDEO SOLUTIONS



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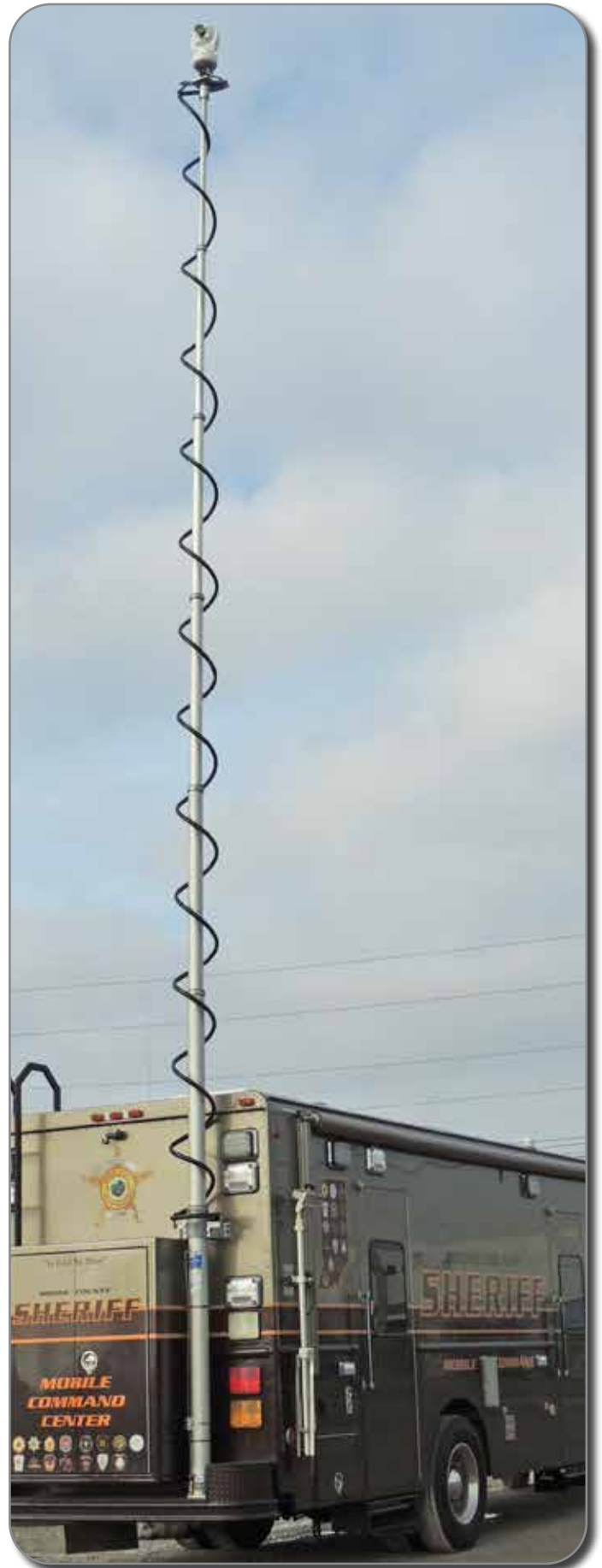
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**VIDEO SOLUTION OFFERINGS**

Will-Burt's video packages have been designed for integration into the wide variety of elevation and light tower solutions. Video solutions have been specifically designed for many industries such as Fire and First Responders, Broadcast, Security, Police, Military, Towing, Oil and Gas, Mining and Construction. Will-Burt can also design custom packages to meet your unique requirements.



**Pneumatic Mast**

Military surveillance application



**Inflexion™**

Roof-mount, fold-down mast



**Inflexion™**

Roof-mount, fold-down mast



**KVL**

Robust, crank mast



**Night Scan® HDT**

Heavy-duty towing light tower



**Night Scan®**

Command Center application



**Night Scan®**

Light tower with camera



**Expedition™ Series**

Man-portable composite tri-pod mast

**CAMERA CONTROLLERS FOR PAN / TILT / ZOOM MODELS**



**Wonwoo PTZ Mini Controller**

**Works with all Wonwoo models**  
 3-Axis joystick control of PTZ functions.  
 Preset position control (4 positions).  
 IR ON / OFF button.  
 Fan & heater ON / OFF function.  
 Slave keyboard support.



**Viper PTZ Multi-function Desktop Controller**

**Works with all Viper models**  
 Three axis proportional joystick for precise control of pan, tilt and zoom functions.  
 Bright OLED display.  
 Simple setup of presets and tour functions.  
 Supports Viper field firmware upgrades.



**The Pelco-D Compatible Controller with LCD screen**

**Flawlessly controls PTZ functions**  
 Includes LCD screen, keyboard and programmable presets that simplify operation.  
 Input Voltage 12V DC.  
 Communication Interface RS485.  
 Operating Temperature 32°F to 122°F / 0°C to 50°C.  
 Dimensions 6.6" x 5.4" x 4.2" / 168mm x 136mm x 105mm.

## PTZ AND ANALOG CAMERAS – STATIONARY

Will-Burt Night Scan® Light Towers deliver the capability of camera mounting, with or without lights. A camera, elevated to a height from 3.25 ft. to 30 ft. above the vehicle roof, allows ground personnel to survey an emergency scene quickly and efficiently. In addition, the system offers real-time monitoring and surveillance for accurate records and documentation. Will-Burt has several camera and DVR packages that fit a variety of needs. Our video solutions experts can also design a customized package to fit your specific requirements. Below is a sample of our video solutions.



Feature		WONWOO – IR	Viper HD
Camera Type	Analog	PTZ – SDI or IP w/Infrared Illuminator	PTZ – IP High Definition
Lens	8mm / 2.8 mm	4.7mm – 94.0mm	4.3mm – 139.0mm
Image Sensor	Sharp CCD	1/3” 2.2M Pixel CMOS Sensor	2MP CMOS High Definition
Resolution	510 x 492 / 420 TV lines	1920 x 1080 pixels - 1080p	1080 x 720
Optical Zoom / Digital Zoom	Fixed	20x / 12x	30x / 10x
Low Light	0 LUX with 10 IR LED's	0.0005 LUX with 12 IR LED's / 120m	N/A
Pan & Tilt	No	360° endless pan / 15° – 270° tilt	360° endless pan and tilt
Ingress Protection	IP67 – Waterproof	IP66 – Outdoors	IP67 – Waterproof



**2 Camera System**



**Video + Thermal**

Feature	Silent Sentinel Oculus HD	Silent Sentinel Oculus IR HD
Camera Type	PTZ – SDI or IP	PTZ – SDI or IP w/Infrared Illuminator - 100 meters
Lens	4.3mm to 129.0mm	4.3mm to 129.0mm
Image Sensor	1/2.8” type Exmor CMOS sensor	1/2.8” type Exmor CMOS sensor
Resolution	2.13MP	
Optical Zoom / Digital Zoom	30x / 12x	30x / 12x
Low Light	Color 0.01 lux / Mono 0.0008 lux	
Signal System	HD: 1080p / SD: NTSC/PAL	
Pan & Tilt	360° pan / +90° to -30° tilt	
Ingress Protection	IP67 – Waterproof	
Communications	Pelco-D, Pelco-P, CBC OCP485, Forward Vision Mic1 FV300, Philips, Vicon	
Camera Warranty	2 years	

Video Camera Feature	Silent Sentinel Oculus TI HD	Thermal Camera Feature	Specification
Camera Type	PTZ – SDI or IP	Sensor type	Uncooled VOx Microbolometer
Lens	4.3mm to 129.0mm	Pixel size	17µ
Image Sensor	1/2.8” type Exmor CMOS sensor	Spectral band	8-14µm
Resolution	2.13MP	Thermal sensitivity	<50mK
Optical Zoom / Digital Zoom	30x / 12x	Array format	320 x 240 or 640 x 480
Low Light	Color 0.01 lux Mono 0.0008 lux	Frames rates	9Hz, 30Hz
Signal System	HD: 1080p / SD: NTSC/PAL	Image control	White hot, Black hot, Invert
Pan & Tilt	360° pan / +90° to -30° tilt	Focus	Fixed, preset, Athermalised
Ingress Protection	IP67 – Waterproof	Zoom	E-zoom 1-4, Region of interest
Communications	Pelco-D, Pelco-P, CBC OCP485, Forward Vision Mic1 FV300, Philips, Vicon	FOV	19mm (other FOV available)
Camera Warranty	2 years		

# MOBILE VIDEO RECORDING

## Hybrid Mobile DVR

Will-Burt offers mobile DVRs that cover virtually every need and budget. From simple SD card recording with simultaneous viewing on a quad LCD screen to robust hybrid DVRs that can accept nearly any video signal and record and output in HD resolution.

Our full-featured Hybrid DVRs can accept signals in IP digital, HD-SDI and analog format. Multiple ports for each ensure that you will have full recording capabilities for all of the cameras on your vehicle or command center. An internal 4TB HDD captures all of the data and a 2TB SSD (solid-state drive) option is available. Wi-Fi N and a cellular modem enable instant transmission from the scene. Several other features round out the robust Hybrid DVR capabilities.



Specifications	5478103 / 5478105	5478104 / 5478106
2.5" Internal Drive	4TB HDD 5478103 / 2TB SSD 5478105	4TB HDD 5478104 / 2TB SSD 5478106
Total Channels	9	9
IP-CAM Channels	4	4
Maximum incoming bandwidth for IP-CAM	40Mbps	40Mbps
HD-SDI Channels	1	1
Analog Channels	4	4
Max. Record/Playback capabilities:	IP-CAM: 120/100fps@1080p/720p	
	HD-SDI: 25fps@1080p, 60/50fps@720p	
	Analog: 120/100fps@960H/D1/Half-D1/CIF	
WiFi: Compliant 802.11b/802.11g/802.11n/802.3/802.3u	Yes	Yes
WiFi and USB support for remote access, with dual streaming support	Yes	Yes
Cellular Modem Carriers	AT&T	Non-AT&T
Hegaplex operation: Simultaneous Recording, Playback, Backup, Control and Remote Access	Yes	Yes
Smart Search & Playback	Yes	Yes
VGA/CVBS output with 3-D de-interlace & de-noise for best picture quality with resolution up to 1920 x 1080	Yes	Yes
Up to 4 alarm inputs, car speeding pulse input, car engine revolution signal input	Yes	Yes
Built-in G sensor for alarm of acceleration, brake, left/right turn	Yes	Yes
Built-in GPS to support Google Earth and Google Maps	Yes	Yes
Ethernet: (2) 10/100 Mbps, RJ45, auto MDI/MDIXDI/MDIX	Yes	Yes
Operating Voltage	10V DC – 35V DC / Max possible amp draw 3.8 amps (Typ.: 12V DC @ 1.8 amps)	
Weight	5.5 lbs. / 2.5kg	
Case Dimensions	7.1" wide x 2.5" high x 9.1" deep / 180mm wide x 63mm high x 229mm deep	

## DVR with Quad LCD Monitor

Will-Burt's DVR with Quad LCD Monitor provides standard definition recording and video quality. This Microsoft Windows based system is idea for recording events that do not require watermarking and encryption. This combination unit is a convenient and cost effective solution for viewing and recording a variety of events from up to 4 cameras.

### Features

- 7" Quad Screen DVR Color LCD Monitor
- Display resolution (H x V): 800 x 480 pixels (RGB)
- Up to 32GB SD Card Storage
- 4-channel video input: 1.0Vp-p, 75Ω
- DVR video resolution: 800 x 600 / 720 x 480/640 x 480/320 x 240
- DVR video frame: 20fps at 800 x 600, 30fps at 720 x 480, 30fps at 640 x 480, 60fps at 320 x 240 pixels



## POSITIONERS / CONTROLLERS

# POSITIONIT<sup>®</sup>

PositionIt by Will-Burt is a maintenance-free pan and tilt positioner designed to provide years of trouble-free service. An IP68 rating delivers dust and water protection. The gear box is designed to minimize backlash and provides higher gear ratios for lower speeds along with mechanical braking. Long-life potentiometers are standard with PositionIt.

## ESSENTIAL FEATURES

- **Replacement for MOOG QuickSet QPT Positioners**
  - Direct connection to existing QuickSet control/power cable
- **Pelco-D RS-485 Communications**
- **Strong lightweight construction**
  - Die-cast aluminum casing
- **Minimal backlash**
  - Precision turned and milled components with ball races on major axes
- **Built to last**
  - Stainless steel fasteners
- **Weatherproof**
  - IP 68 rating
- **Simple to install**
- **Universal mounting plate**
  - Suitable for most common payloads
- **Corrosion resistant finish**
  - Black
- **Regenerative braking**
  - On motor shaft
- **Long operational life**
  - 2 year warranty on Will-Burt PositionIt™ Positioners
  - 3 year mechanical and 2 year electrical warranty on Static Positioners
- **Flexible connection**
  - Bottom or side
- **We also offer a complete range of positioners for fixed applications and camera enclosures.**



## POSITIONIT SPECIFICATIONS

Model	PI-150	PI-75	PI-35
Payload Capacity*	150 lb / 202 Nm	75 lb / 101 Nm	35 lb / 47 Nm
Height	11.32 in. / 287.7 mm	11.32 in. / 287.7 mm	9.7 in. / 246 mm
Width	12.4 in. / 314 mm	9.21 in. / 234 mm	10.8 in. / 273 mm
Depth	6.8 in. / 171 mm	6.8 in. / 171 mm	5.7 in. / 144 mm
Weight	37 lb / 16.8 kg	35 lb / 16 kg	19.5 lb / 8.9 kg
Operating Temperature	-20°C to 50°C / -4°F to 122°F		
IP Rating	IP68 - Waterproof (immersion) and Dustproof		
Pan Axis	400° (± 200°)		
Pan Speed (proportional)	0.02 to 6.5° / second		1° to 12° / second
Tilt Axis	180° (± 90°)		
Tilt Speed (proportional)	0.02 to 5.5° / second		1° to 12° / second
Backlash	≤ 0.15°		
Repeatability	≤ 0.3°		
Maximum Continuous Power	44 W		
Maximum Running Current	1.85 amps		
Input Voltage	24 VDC - Converters available for 12 VDC and AC power sources		

\*Capacity measured at 12 inches or less from the tilt axis. Dimensions and weights are for reference only and are subject to change. Contact Will-Burt for current engineering specifications.

## POSITIONIT CONTROLLERS

The handheld and 2U rack mount controllers are Pelco-D compatible with programmable home and stow positions. The AC powered rack mount controller provides power and pan and tilt commands to the positioner and is adaptable to contact closure switches for I/O panels. The handheld controller has a keyboard for programming and an LCD screen and can be optionally used in conjunction with the rack mount controller.



## MAINTENANCE FREE ALL-WEATHER CAMERA HOUSINGS

Made to a proven, traditional design, the Mitre range of environmental camera housings are extremely compact yet spacious enough (particularly the new 903) to accommodate larger camera/lens combinations.

Broadening the range of applications to include corrosive and clean environments, Small (901) and Medium (900) aluminium cased housings cases are now available in 316 stainless steel (801 and 800).

Toughened glass and stainless steel fittings/fastenings ensure long operational life and two entry glands and a grommetted hole are provided for efficient cable management to secure the units' IP66 integrity.

A deep base allows the fitting of an optional integral wiper which incorporates a micro switch for self-parking. Standard accessories include an extended camera plate, steel safety strap and wiring distribution block. A PTC resistor heater with progressive performance is also provided which eliminates the need for a thermostat and when the heat's on, optional double skinned sunshields are available for all models. The roomy new 903 (standard length) can even be supplied with a fan cooled sunshield which draws air through the housing to prevent overheating in extreme conditions.



### ESSENTIAL FEATURES

- **Uncompromising construction**
  - Lightweight sheet aluminium or 316 stainless steel casing and tray
- **New 903 series**
  - Extra height and width as standard plus short and integral cooling fan versions
- **Deep bottom tray**
  - Suitable for housing integral wiper or accessories such as receivers or RF TX's & Rx's
- **Built to last**
  - Stainless steel fastenings
- **Weatherproof**
  - Sealed to IP rating 66
- **Accessories**
  - Extended paxolin camera plate and stainless steel safety strap
- **PTC Resistor heater**
  - Progressive performance without the need of a thermostat (available on request)
- **Cable management**
  - Two entry glands at 20mm and one hole at 25mm for Kopex or Adaptaflex
- **Integral wiper option**
  - Micro switch self parking wiper with blade toggle action

### SPECIFICATIONS

	901	900	903 STANDARD	903 SHORT	902
Height	7.6 in. / 192 mm	9.1 in. / 230 mm	9.5 in. / 242 mm	9.5 in. / 242 mm	10.2 in. / 259 mm
Width over clips	6.2 in. / 156 mm	7.1 in. / 180 mm	9.1 in. / 230 mm	9.1 in. / 230 mm	9.1 in. / 232 mm
Width over sunshield	6.0 in. / 151 mm	6.9 in. / 174 mm	8.9 in. / 227 mm	8.9 in. / 227 mm	9.2 in. / 233 mm
Length over sunshield	17.0 in. / 430 mm	23.6 in. / 600 mm	24.4 in. / 620 mm	15.3 in. / 388 mm	30.0 in. / 760 mm
Depth inside base	2.2 in. / 55 mm	2.2 in. / 55 mm	2.3 in. / 57 mm	2.3 in. / 57 mm	2.2 in. / 55 mm
Weight (Aluminium without wiper)	< 5.5 lb. / 2.5 kg	< 7.7 lb. / 3.5 kg	15.4 lb. / 7 kg	8.8 lb. / 4 kg	< 13.2 lb. / 6.0 kg
Weight (Aluminium with wiper)	< 6.6 lb. / 3.0 kg	< 8.8 lb. / 4.0 kg	16.5 lb. / 7.5 kg	9.9 lb. / 4.5 kg	< 14.3 lb. / 6.5 kg
Weight (316 stainless without wiper)	10.4 lb. / 4.7 kg	18.1 lb. / 8.2 kg	N/A	N/A	N/A
Weight (316 stainless with wiper)	TBA	TBA	N/A	N/A	N/A
Fixing centres					
Base	4 holes tapped M6 on 101.6 PCD (4") square to base				
Platform	4 slots 7.0 wide x 25 long in 225 long Paxolin or aluminium (903 units) plate (1 x ¼" UNC hex screw supplied)				
Voltage	24VDC nominal				
Capacity (l x w x h) (in. / mm)	13.0 in. x 4.5 in. x 4.3 in. / 330 x 114 x 110 mm	20.1 in. x 5.5 in. x 5.7 in. / 510 x 140 x 145 mm	19.9 in. x 7.0 in. x 6.6 in. / 505 x 178 x 167 mm	10.8 in. x 7.0 in. x 6.6 in. / 273 x 178 x 167 mm	25.6 in. x 7.1 in. x 6.7 in. / 650 x 180 x 170 mm
Options (all models)	Integral self parking wiper, internal fan, washer, thermostat, double skinned sunshield				
Heater	Progressive up to 32W				
Wiring and connections	Single row (double row with fan option), 12 way terminal block(s), .08 in. x .79 in. / 2 x 20 mm cable glands plus blanked, .98 in. / 25 mm hole for Kopex or Adaptaflex				
Recommended cable	16/0.2 (rated at 230V for mains versions)				
House color (900 series)	Grey				
Temperature Range	-4° to 122° F / -20° to +50° C				

# CONTACT YOUR SALES REPRESENTATIVE TODAY

The Will-Burt Company, headquartered in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping masts, towers and pan and tilt positioners. We offer virtually every mobile payload elevation and integration solution for defense, government, first responders, cellular and mobile, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. Will-Burt is an international company with offices and manufacturing in the USA, England, and Germany along with offices in Singapore and a joint venture in Turkey. All Will-Burt Company manufacturing locations are backed by a certified ISO 9001:2015 Quality Management System. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



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