



MOBILE VIDEO SOLUTIONS



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The Will-Burt company is the world's premier manufacturer of portable telescoping mast and tower elevation solutions - the world's one stop shop offering virtually every elevation solution from one source-for a variety of industries. Will-Burt expertise and capabilities have expanded beyond elevation solutions and Will-Burt now offers full integration solutions for a variety of payloads and transport methods.

WILL-BURT NOW OFFERS MOBILE VIDEO SOLUTIONS DESIGNED FOR A WIDE VARIETY OF APPLICATIONS AND INDUSTRIES.



Protection of property and personnel have become extremely important in these uncertain times. Advances in video and recording technology have made it possible to provide constant surveillance and security to ensure that all assets can be monitored from a single location. This same technology can be used to record events at incident scenes providing impartial witness and irrefutable testimony regarding the actions of personnel and bystanders.

Will-Burt has created video and recording packages specifically designed to meet your requirements and budget. Each solution is tested and proven to deliver the performance needed to achieve your critical objectives.

From basic fixed cameras to advanced high definition, IP enabled cameras with thermal imaging, Will-Burt offers a model that will fit your needs. Event recording is made possible by a DVR that can be equipped with cellular network transmission capabilities or WiFi.

All video options can be integrated with a Will-Burt elevation solution or light tower providing the most advanced surveillance and recording possible.

WILL-BURT'S SPECIALIZED ENGINEERS CAN DESIGN A CUSTOMIZED SOLUTION FOR YOUR UNIQUE REQUIREMENTS.

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ANALOG CAMERAS – STATIONARY

Basic surveillance and scene monitoring – available in narrow or wide viewing angle



Feature	Specification
Lens	2.8 mm
Image Sensor	SONY CCD
Resolution	768 x 494 / 540 TV lines
Optical Zoom / Digital Zoom	Fixed
Viewing Angle	130°
Low Light	0 LUX with 10 IR LED's
Pan & Tilt	No
Ingress Protection	IP67

Basic scene monitoring from a vehicle



Feature	Specification
Lens	2.8mm
Image Sensor	SHARP high definition CCD
Resolution	720 x 480 / 480 TV lines
Optical Zoom / Digital Zoom	Fixed
Viewing Angle	130°
Low Light	0 LUX with 18 IR LED's
Pan & Tilt	No
Ingress Protection	IP69k – waterproof / 10 G shockproof

ANALOG CAMERA – PAN / TILT / ZOOM

Surveillance and scene monitoring – Wonwoo

WONWOO



Feature	Specification
Camera Manufacturer	Wonwoo
Lens	3.4mm – 122.4mm
Image Sensor	Exview HAD CCD
Resolution	1028 x 508 / 700 TV lines
Optical Zoom / Digital Zoom	36x / 32x
Low Light	0.5 LUX
Pan & Tilt	360° endless pan / -45° – 90° tilt
Ingress Protection	IPX5
Communications	RS-422, RS-485 / WTX, Pelco-D V1, Pelco-P, Pelco-D V5
Signal System	NTSC

Surveillance and scene monitoring with IR feature – Wonwoo

WONWOO



Feature	Specification
Camera Manufacturer	Wonwoo
Lens	3.4mm – 122.4mm
Image Sensor	Exview HAD CCD
Resolution	1028 x 508 / 700 TV lines
Optical Zoom / Digital Zoom	36x / 32x
Low Light	0.2 LUX with 46 IR LED's / 80m
Pan & Tilt	360° endless pan / -22.5° – 90° tilt
Ingress Protection	IP66 – outdoors
Communications	RS-422, RS-485 / WTX, Pelco-D V1, Pelco-P, Pelco-D V5
Signal System	NTSC



PTZ CAMERAS

Analog or IP Available

Feature	Specification	
Camera Manufacturer	Silent Sentinel - Oculus SD	Silent Sentinel - Oculus HD
Lens	3.4mm to 122mm	4.3mm to 129.0mm
Image Sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor
Resolution	530 TV lines	Approx 3.27 million
Optical Zoom / Digital Zoom	40x / 12x	30x / 12x
Low Light	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode
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	
Signal System	NTSC	HD: 1080p/SD: NTSC/PAL



INFRARED ILLUMINATOR - 100 METERS

Analog or IP Available

Feature	Specification	
Camera Manufacturer	Silent Sentinel - Oculus SD	Silent Sentinel - Oculus HD
Lens	3.4mm to 122mm	4.3mm to 129.0mm
Image Sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor
Resolution	530 TV lines	Approx 3.27 million
Optical Zoom / Digital Zoom	40x / 12x	30x / 12x
Low Light	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode
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	
Signal System	NTSC	HD: 1080p/SD: NTSC/PAL



THERMAL IMAGER PLUS STANDARD / HIGH DEFINITION

Analog or IP Available

Feature	Specification	
Camera Manufacturer	Silent Sentinel - Oculus SD	Silent Sentinel - Oculus HD
Lens	3.4mm to 122mm	4.3mm to 129.0mm
Image Sensor	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor
Resolution	530 TV lines	Approx 3.27 million
Optical Zoom / Digital Zoom	40x / 12x	30x / 12x
Low Light	1.4 lux color, 0.01 lux mono	1.7 lux, 0.5 lux in High Sens Mode
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	
Signal System	NTSC	HD: 1080p/SD: NTSC/PAL

Feature	Specification
Sensor type	Uncooled VOx Microbolometer
Pixel size	17µ
Spectral band	8-14µm
Thermal sensitivity	<50mK
Array format	320 x 240 or 640 x 480
Frames rates	9Hz, 30Hz
Image control	White hot, Black hot, Invert
Focus	Fixed, preset, Athermalised
Zoom	E-zoom 1-4, Region of interest
FOV	35mm (other FOV available)



VIPER CAMERAS – PAN / TILT / ZOOM

All viper cameras include “self-cleaning”, hydrophilic glass and image stabilization

Available in Analog or IP (Internet Protocol) Versions

Surveillance and scene monitoring – Viper Standard Definition



Surveillance and scene monitoring – Viper High Definition



Feature	Specification
Camera Manufacturer	Viper
Lens	3.4mm - 122.4mm
Image Sensor	Interline transfer CCD
Resolution	768 x 494 / 520 TV lines
Optical / Digital Zoom	36x / 12x
Low Light	0.01 LUX in IR mode
Pan & Tilt	360° endless pan and tilt
Ingress Protection	IP67 - waterproof
Communications	RS-422 or RS-485 standard / Pelco-D, COHU
Signal System	NTSC

Feature	Specification
Camera Manufacturer	Viper
Lens	4.7mm - 94.0mm
Image Sensor	2MP CMOS high definition
Resolution	1920 x 1080
Optical Zoom / Digital Zoom	20x / 10x
Low Light	Less than 3 LUX
Pan & Tilt	360° endless pan and tilt
Ingress Protection	IP67 - waterproof
Communications	RS-485 standard / Pelco-D, COHU
Signal System	WTI proprietary, industry standard or optional NTCIP

Surveillance and scene monitoring in low visibility – Viper Thermal Imager



Feature	Specification
Camera Manufacturer	Viper
Lens	19mm
Image Sensor	8-14 micron spectral un-cooled micro-bolometer
Resolution	320 x 240 / 225 TV lines
Optical / Digital Zoom	N/A
Viewing Angle	36°
Sensitivity	<85 mK NEΔT
Wide Dynamic Range (WDR)	No
Pan & Tilt	360° endless pan and tilt
Ingress Protection	IP67 - waterproof
Communications	RS-422 or RS-485 standard, Pelco D, Pelco P, or COHU
Signal System	WTI proprietary, industry standard or optional NTCIP

CAMERA CONTROLLERS FOR PAN / TILT / ZOOM MODELS

Wonwoo PTZ Mini Controller

Features

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

WONWOO



Viper PTZ Multi-function Desktop Controller

Features

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

Features

Flawlessly controls pan, tilt and zoom 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



MOBILE VIDEO RECORDING

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 2TB hard drive captures all of the data and a 4TB 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.

Hybrid Mobile DVR



	5478101	5478102
2.5" Internal HDD	2TB (4TB - 5478103)	2TB (4TB - 5478104)
Total Channels	12	12
IP-CAM Channels	4	4
Maximum incoming bandwidth for IP-CAM	40Mbps	40Mbps
HD-SDI Channels	2	2
Analog Channels	8	8
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/MDIX/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	

MOBILE VIDEO RECORDING

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 ideal 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



VIDEO MONITORS

7" LCD Quad View Monitor

Features:

- 7" LCD TFT Display
- 4-channel video input / Quad screen display
- Brightness 350 cd/m²
- Resolution 336960 pixels



7" LCD Waterproof Monitor

With an IP69K waterproof rating, this monitor can be mounted in any application where water or dust are a possibility. It comes with a 7" TFT LCD display with two camera inputs and trigger wires for each. With a super bright digital display, this monitor will provide a crystal clear image from behind your vehicle.

Features

- 7" LCD TFT Display
- Brightness 400 cd/m²
- 2-channel video input
- IP 69k waterproof high-pressure spray
- Resolution 800 x 480
- PAL/NTSC (Auto)
- Contrast 500:1



10" HD Indoor Monitor

Features:

- Built-in 10.05" High resolution LCD
- Multi Format Video Input - HDMI, HD-SDI, VGA, CVBS
- Auto detection input video formats
- 100% Digital Processing
- White LED Backlight
- 4:3 and 16:9 screen aspect ratios



POSITIONERS / CONTROLLERS

POSITIONIT[®]

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 ft lb / 202 Nm	75 ft lb / 101 Nm	35 ft 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.



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

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 payload elevation and integration solution from the top brands; Will-Burt, GEROH, Integrated Tower Systems (ITS) and MAD – for defense, government, first responders, cellular, broadcast, energy production and other markets. Will-Burt also offers contract manufacturing, metal fabrication, powder-coating, and rapid prototyping services. 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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