



# DEFIANCE 640 PTZ

## VEHICLE-MOUNTED THERMAL CAMERA

### TECHNICAL SPECIFICATIONS



#### GENERAL

Water Resistance	IP66
Pan Angle	Continuous 360°
Tilt Angle	Straight downward to 45 degrees above horizontal
Body Material	Aluminum
Width	6.65 in / 169 mm
Depth	7.68 in / 195 mm
Height	7.8 in / 198 mm
Weight	94.5 oz / 2680 g
Operating Temperture Range	-4°F to 122°F -20°C to 50°C
Ports	1 TF card slot, 2 HDMI ports, 2 DC ports
Display Type	LCD
Screen Size	10.1 in

#### POWER

Power Supply	12V DC
Camera Amperage @12V DC	750mA
Display Amperage @12V DC	320mA
Adaptor Connection with both Camera and Display	1200mA

#### FEATURES

- Variable Speed Remote Control
- Sleep Mode
- Return To Home Function
- High Resolution 640x480 pix thermal imaging
- Infinite 360° Panning
- Low Latency HDMI compatible Wired Screen
- App Control on the Dark 30 App
- Versatile Mounting Options: (Permanent bolts, suction cups, or 45.3 kg / 100 lb pull magnets.)
- Water Resistant

#### SENSOR

Device Technology	Thermal Imaging
Sensor Resolution	640x480 pix
Frame Rate	60 fps
Pixel Size	17 micron
Spectral Range	8 - 14 µm
Detector NETD	<30 mK
Color Palettes	5
Detection Range	1250 yds / 1150 m

#### OPTICS

Lens Material	Germanium
F/# NUMBER (lens)	1
Lens Diameter	32 mm
Focal Length	30 mm
Digital Zoom	1-8x
Magnification	n/a
Field of View Horizontal	20°
Field of View Vertical	15°
Field of View Diagonal	25°

#### ADDITIONAL ACCESSORIES

- 2 in Riser
- Base Kit
- Remote
- 10.1 in Screen

The D30 Defiance 640 PTZ enhances the capabilities of nocturnal hunters and law enforcement professionals who have previously had to use thermal handheld devices on foot and through vehicles, which obscured their views through windows and windshields. Mounted on top of a vehicle, the D30 Defiance offers a 360° field of view, allowing users to survey their surroundings with unparalleled clarity and precision. This elevated perspective not only provides a broader and clearer view but also enhances detection and target tracking without users needing to stop or dismount.



# DEFIANCE 640 PTZ

## ACCESSORIES

### TECHNICAL SPECIFICATIONS



#### 10.1 in SCREEN

Video Output	1920x1200 pix
Display Type	LCD
Screen Size	10.1 in
Weight	17 oz / 482 g
Brightness Setting	0-100
Power Supply	12V
Operating Temperature	-4°F to 158°F / -20°C to 70°C
Storage Temperature	-22°F to 176°F -30°C to 80°C
Connection	HDMI

#### SCREEN FEATURES

- Adjustable Brightness Display
- Off button to prevent night blindness
- Direct unit connection via HDMI to minimize lag

#### 2 in RISER

Weight	1.11 lb / 503 g
Dimensions	7.5 X 6.5 X 2 in 191 x 165 x 51 mm
Materials	Polycarbonate

#### RISER FEATURES

- Rugged easy to use
- Stackable
- Included mounting hardware

#### BASE KIT

Weight	2 lb / 0.9 kg
Dimensions	7.5 X 6.5 in / 191 x 165 mm
Cable Length - HDMI	4 m
Cable Length - Power	4 m
Power	12V
Materials	Aluminum and Plastic
Power Supply	12V DC
External Power Supply	Car cigarette power, 12V DC

#### BASE KIT

- Multiple Cable Management Configuration
- Protective cover

#### REMOTE

Connection	Wireless
Power	2 AAA batteries

#### REMOTE

- Wireless connection
- Innutive joystick operation
- Ergonomic magnification toggle



Thomas Jacks is the exclusive UK & ROI trade only distributor for Dark30. To find a dealer, or to become a dealer, please contact us.  
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