

## On-Screen Display (OSD) Menu

Configure OSD menu options using the integrated control stick on the camera cable (see image to the right).



### To use the OSD menu:

- **OPTIONAL:** Connect a test monitor to the camera's analog (yellow) BNC connector.
- Push the middle of the joystick to open the OSD menu.
- Move the joystick ↑ / ↓ to select a setting, then ← / → to change the setting value.
- Push the middle of the joystick to confirm selection.
- Arrows beside settings indicate a submenu (←↓). Select the setting and push the joystick to enter.
- Select **RETURN** and push the joystick to return to the previous menu, or **EXIT** from the main menu to exit.

See the full OSD menu tree below. For detailed explanation of camera settings, see the OSD instruction manual on [www.flir.com/security/support](http://www.flir.com/security/support).

Language		
Video Format		
Backlight ←↓	OFF	
	WDR ←↓ (MPX only)	
	BLC ←↓	
	HLC ←↓	
DNR		
Advanced ←↓	Lens ←↓	ELC ←↓
		ALC ←↓
	Exposure ←↓	Brightness
		Shutter
		Sens-Up
		AGC
	White Balance ←↓	Auto
		ATW
		Preset
		Manual ←↓
	Day&Night ←↓	Mode
		Delay
		D → N Level
		N → D Level
		Smart IR
		Smart IR Level
	Image ←↓	Sharpness
		Color Gain
		Freeze
		Flip
		D-Zoom
		Defog
	Special ←↓	Black Level ←↓
		Privacy ←↓
		DP Comp ←↓
	Reset	
Version		
Exit		

## Package Contents

- 1x Vandal Dome MPX Camera
- 4x Mounting Screws
- 4x Drywall Anchors
- 1x Star Key
- 1x Mounting Template

**NOTE:** Power adapter not included.

## Safety Precautions

- Use an appropriate low voltage power cable to prevent fire or electrical shock.
- Make sure to install the camera in an area that can support the camera weight.
- There are no user serviceable parts inside the camera. Please do not disassemble the camera.
- Do not clean the lens cover with an abrasive cleaning material. Please use a soft cloth to clean the lens cover.

## WDR Function Notice

WDR is not supported in analog output mode.

# FLIR MPX™

IT'S ALL ON THE WEB!

VISIT  
[www.flir.com/security/support](http://www.flir.com/security/support)

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## Vandal Dome MPX Camera

### QUICK START GUIDE

English Version 2.0

### MODEL:

C237VC / C237VCP  
C237VD / C237VDP



# FLIR MPX™

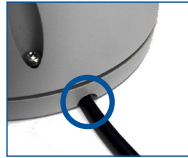
[www.flir.com/security/support](http://www.flir.com/security/support)

## Installing the Camera

### ATTENTION:

Test the camera prior to selecting a permanent mounting location by temporarily connecting the camera(s) and cables to the DVR.

1. Use the included Star key to loosen the screws on the dome cover.
2. Use the included mounting template to mark and drill holes for the included mounting screws.  
**NOTE:** Insert the included drywall anchors if installing into drywall.
3. (Optional) If you are not running the camera cable through a wall, use pliers to create a notch to feed the cable through.

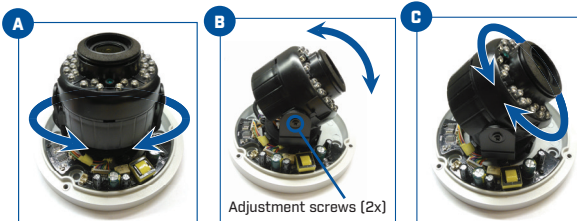


4. Connect the video and power cable as detailed in the section 'Setting up the Camera.'
5. Attach the camera base to the mounting surface using the included screws (4x).
6. Set the position and angle of the camera.

A) Rotate the camera around the base (rotates 360° before it is stopped).

B) Use a Phillips screwdriver to loosen the adjustment screws on both sides of the camera. Tilt the camera module. Tighten both screws when finished.

C) Adjust the position and angle of the camera lens by twisting the camera lens module.



7. Replace the dome cover. Use the included Star key to tighten the screws (3x).

**NOTE:** Make sure IR LEDs are not blocked by the dome cover to prevent IR reflection.

## Setting up the Camera

1. Connect one of the two BNC connectors on the camera to the video cable. See "Camera Wiring" for details.
2. Connect a power source to the power terminal block. The camera supports both 12V DC and 24V AC power supplies.

**NOTE:** Make sure to follow correct polarity as marked on the power connector. For AC power, connect multiple cameras using consistent wiring polarity to prevent video rolling.

### WARNING:

A REGULATED 12V DC or 24V AC power supply is REQUIRED for use with this camera. Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.

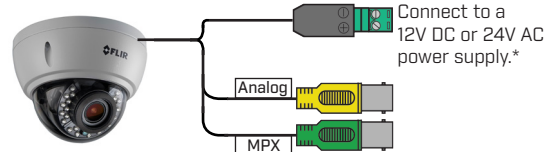
## Adjusting Zoom & Focus

Hold the joystick on the camera cable / to zoom in / out. The camera will focus itself automatically.

**NOTE:** You can also adjust zoom and focus remotely if the camera is connected to a FLIR MPX DVR using the MPX video connector. See your MPX DVR's instruction manual for details.



## Camera Wiring



**MPX**  
Connect to an MPX DVR for HD viewing and recording. 720p or 1080p depending on model.

**Analog**  
Connect to an analog DVR for 960H viewing and recording.

\* Camera focus may be affected if the power connection is too long. It is recommended not to extend the power connection past 200ft (61m).

## Extension Cable Options

The entire length of the cable run must be made using a single extension cable between the camera and the DVR.

Specification	Maximum Length
RG59 20AWG Conductor 95% Braid CSA/UL or C(UL) Approved	Up to 1500ft (455m) <sup>†</sup>
RG6 20AWG Conductor 95% Braid CSA/UL or C(UL) Approved	Up to 2300ft (700m) <sup>†</sup>
Analog CCTV Balun	Up to 300ft (91m)

<sup>†</sup> Long cable runs over 1000ft (300m) may be affected by electro-mechanical interference (EMI), which can increase the amount of noise in the picture in some installations.

## Camera Specifications

	C237VC / C237VCP	C237VD / C237VDP
Image Sensor	1/3" 1.3MP CMOS	1/2.8" 2.1MP CMOS
Video Format	NTSC [C237VC] PAL [C237VCP]	NTSC [C237VD] PAL [C237VDP]
Effective Pixels	H: 1305 V: 1049	H: 2048 V: 1536
Resolution	Digital: 720p Analog: 960H	Digital: 1080p Analog: 960H
Scan System	Progressive	
Sync System	Internal	
S / N Ratio	≥ 50dB (AGC Off)	
Iris	AES	
AES Shutter Speed	1/60 (1/50) - 1/60,000 sec.	
Min. Illumination	0.1 LUX (IR Off)	
Video Output	Digital: 720p MPX HD-CVI Analog: Composite 1.0Vpp @ 75ohm	Digital: 1080p MPX HD-CVI Analog: Composite 1.0Vpp @ 75ohm
Lens Focal Length / Type	2.8 - 12mm F1.4 / Zoom	
FOV (Horizontal)	30° - 82°	
Termination	BNC Type	
IR Range / Qty.	90ft / 27m; 24 IR LED's	
Power Requirement	12V DC ± 10% 24V AC ± 10%	
Power Consumption	12V DC: 650mA 24V AC: 550mA	
Operating Temp. Range	-4° ~ 140°F / -20° ~ 60°C	
Environmental Rating	IP66	
Dimensions (W x H)	5.1" x 3.9" 130mm x 100mm	
Weight	1.3lbs / 0.6kg	

## Camera Dimensions

