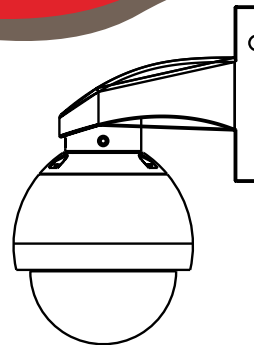


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**MANUAL**  
English / Spanish

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## Content

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**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**Note:** Only professional technicians is allowed to open the front or back cover of this camera.



**ADVERTENCIA**  
PELIGRO DE CHOQUES  
NO ABRIR



**Nota:** Solo técnicos profesionales pueden abrir las cubiertas frontal o posterior de esta cámara.

## General

Thank you for using our products. Before use, please read this manual carefully to ensure correct use of this series of products. Please keep the manual properly for future use.

This series of cameras take high-sensitivity CCD as the image sensor, all circuits have long work life and high reliability. Excellent image will be top choice for your camera.

## Main Features

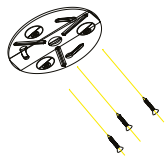
1. Easy to install and assemble.
2. High resolution, high sensitivity and high s/n ratio.
3. Low illumination, high quality image.
4. CCD sensor can prolong the work life of camera.
5. With SONY DSP and CCD chip, image is clear and stable.

## Precautions

1. Do not install the camera in places where the temperature is above 50°C or under -10°C.
2. Do not touch the CCD surface with your finger. If cleaning is needed, please wipe it using a soft cloth with a little bit of alcohol.
3. Do not install in places with high humidity, it can seriously damage the quality of the picture.
4. Do not drop the camera and avoid physical shock.
5. Do not face your camera to a strong light, it can damage the CCD.
6. Do not expose the camera to rain or dusty surroundings.
7. Its highly important to use the correct and suitable power supply(DC12V) for the camera.
8. Only professional and qualified technician can install and test
9. During use, if any errors occur, cut off the power immediately and contact your local distributor.

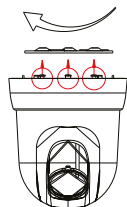
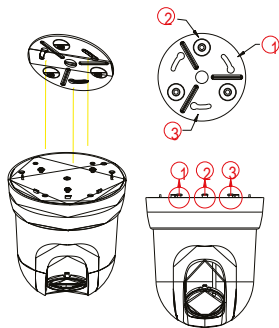
## Installation

### 1. PI Models



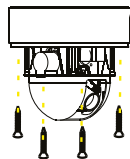
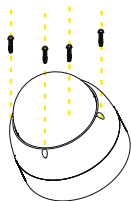
Step 1.  
Install bracket on  
ceiling

Step 2.  
Install camera to  
bracket

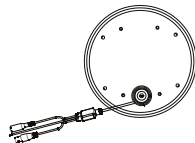


Step 3.  
Rotate camera  
clockwise until hear  
a click sound

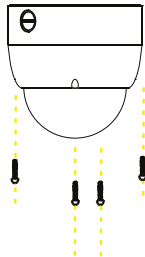
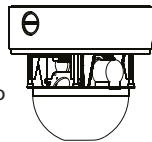
### 2. PA Models



Step 1.  
Install bracket on  
ceiling

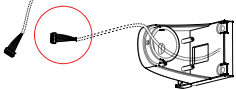
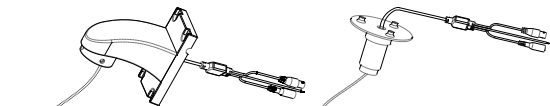


Step 2.  
Install camera to  
bracket

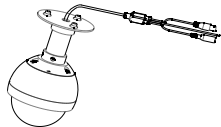
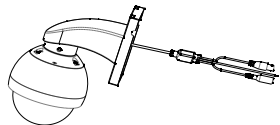
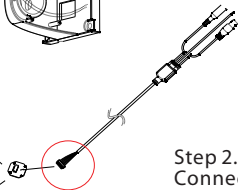


### 3. PZ Models

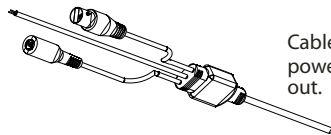
Step 1.  
Install cable to bracket



Step 2.  
Connect cable to camera



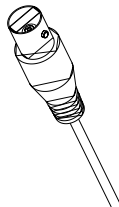
### Cable Connection



Cable includes  
power, RS-485, video  
out.



RS-485 interface is two cable  
Purple color is 485 A/+  
Grey color is 485 B/-



Video out interface



Power interface,  
Need to connect +12V DC  
Inside is (+),  
Outside is (-).

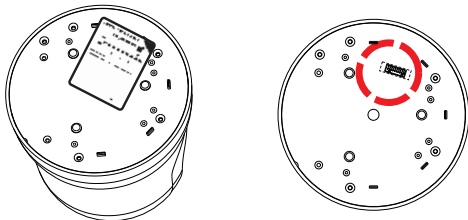


## DIP Switch Setup

With DIP Switch you can configure address, protocol and baudrate on the camera.

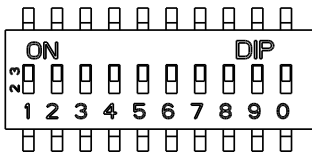
### 1-PI Models

DIP switch unit to be located under a stick label on the ceiling mount.



### 2-PZ/PA Models

DIP switch unit to be located on the board of the camera under plastic cover.



For configuration address, protocol and baudrate with DIP Switch use values in the given below tables:

## DIP Switch 1-6 are for address setting (DEFAULT 001)

Pelco D address setting

Address	Switch setting					
	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF

Pelco P address setting

Address	Switch setting					
	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6
1	OFF	OFF	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF	OFF	OFF
3	OFF	ON	OFF	OFF	OFF	OFF
4	ON	ON	OFF	OFF	OFF	OFF
5	OFF	OFF	ON	OFF	OFF	OFF
6	ON	OFF	ON	OFF	OFF	OFF
7	OFF	ON	ON	OFF	OFF	OFF
8	ON	ON	ON	OFF	OFF	OFF
9	OFF	OFF	OFF	ON	OFF	OFF
10	ON	OFF	OFF	ON	OFF	OFF
11	OFF	ON	OFF	ON	OFF	OFF
12	ON	ON	OFF	ON	OFF	OFF
13	OFF	OFF	ON	ON	OFF	OFF
14	ON	OFF	ON	ON	OFF	OFF
15	OFF	ON	ON	ON	OFF	OFF
16	ON	ON	ON	ON	OFF	OFF

## DIP Switch 7,8 are for Baud Rate (DEFAULT 2400)

9600	OFF	ON
4800	ON	ON
2400	OFF	OFF
1200	ON	OFF

## DIP Switch 9 is for Protocol (DEFAULT Pelcod)

Pelco P	ON
Pelco D	OFF

## Setup Address, Protocol and Baud rate for Remote Controller

Via remote controller you can control several cameras with different address, protocol and baudrate (like address 1 is Pelco P baudrate 9600, address 2 can be Pelco D baudrate 2400)

To setup remote controller protocol and baudrate for each address you please use the following steps:

- connect cameras to the remote controller plug RS-485
- chose channel number by pressing the desire number on the remote control
- press setup key for 3-5 seconds –screen will display number and letter, for example D=24, this is display protocol and baudrate of this address.

Letter refers to protocol:

D- Pelco D, P- Pelco P,

Number means baudrate:

12 means baud rate 1200

24 means baud rate 2400

48 means baud rate 4800

96 means baud rate 9600

- to modify use Left & Right key for baudrate and Up & Down key for protocol on the remote control

- press ENTER key to save it

For clean all setup and default setup remote controller press C key.

Default setup- all address Pelco –D baudrate 2400

## Mechanical Specifications

	PI-Models	PA-Models	PZ-Models
Dome Type:	Indoor IR	Indoor Anti-Vandal	Indoor/Outdoor Plastic Case (M For Metal case)
Effective Pixels:	PAL:500x582		
Protocol:	Pelco-P/D		
Baudrate:	1200/2400/4800/9600 bps		
Address:	0-255		
Pan Rotation:	360° Continuous rotation		
Tilt Rotation:	0°-90°		
Max Pan Speed:	60°/Sec		
Max Tilt Speed:	30°/Sec		
Preset speed:	60°/Sec	100°/Sec	
Preset accuracy:	±3°		
Preset points:	32 Points		
Pattern Tours:	Programable 16 preset point Programable preset number and dwell time / speed		
Auto Scan:	Yes (Programable speed and left right limited point)		
Power-off memory:	Current setting and state (Include Pattern, Not include auto scan)		
Home position:	Yes (Programable auto come back home position)		
Zoom:	Optical 3X		
Communication:	RS485 (+/-)		
Protection:	Indoor use	IP66 for outdoor use (Wall Mount)	
Operating:	0°C - 60°C	-5°C - 60°C	
Power:	12VDC 500mA		

## Camera Specifications

	<b>PI-355CSVF</b>	<b>PI-325CSVF</b>
Image sensor	1/3" SONY HQ1	1/3" SONY DSP Chipset
Horizontal Resolution	540TVL	420TVL
Effective Pixels	PAL:795(H)×596(V) NTSC:811(H)×508(V)	PAL:537(H)×597(V) NTSC:537(H)×505(V)
Power supply voltage	12V DC, 80mA	
TV system	PAL/NTSC	
White Balance	Auto	
Synchronous System	Internal	
Minimum Illumination	0.5Lux /F1.2 (0 Lux IR On)	
S/N Ratio	≥48db	
Electronic Shutter	1/50(1/60)-1/100000 Sec	
Video signal	1.0vp-p750hms.	
Lens configuration	06/4~9/8~20mm	
LED number	24 pcs (PTD-208)	

	<b>PA-355CSVF</b>	<b>PA-325CSVF</b>
Image sensor	1/3" SONY HQ1	1/3" SONY DSP Chipset
Horizontal Resolution	540TVL	420TVL
Effective Pixels	PAL:795(H)×596(V) NTSC:811(H)×508(V)	PAL:537(H)×597(V) NTSC:537(H)×505(V)
Power supply voltage	12V DC, 80mA	
TV system	PAL/NTSC	
White Balance	Auto	
Synchronous System	Internal	
Minimum Illumination	0.02Lux /F1.2	0.05Lux /F1.2
S/N Ratio	≥48db	
Electronic Shutter	1/50(1/60)-1/100000 Sec	
Video signal	1.0vp-p750hms.	
Lens configuration	06/4~9/8~20mm	

## Camera Specifications

	<b>PZ-355CSVF</b>	<b>PZ-325CSVF</b>
Image sensor	1/3" SONY HQ1	1/3" SONY DSP Chipset
Horizontal Resolution	540TVL	420TVL
Effective Pixels	PAL:795(H)×596(V) NTSC:811(H)×508(V)	PAL:537(H)×597(V) NTSC:537(H)×505(V)
Power supply voltage	12V DC, 80mA	
TV system	PAL/NTSC	
White Balance	Auto	
Synchronous System	Internal	
Minimum Illumination	0.02Lux /F1.2	0.05Lux /F1.2
S/N Ratio	≥48db	
Electronic Shutter	1/50(1/60)-1/100000 Sec	
Video signal	1.0vp-p750hms.	
Lens configuration	06/4~9/8~20mm	

## General

Gracias por utilizar nuestros productos. Antes de usar, por favor lea atentamente este manual para garantizar el correcto uso de los mismos. Por favor, guarde el manual correctamente para uso futuro. Esta serie de cámaras tienen un CCD de alta sensibilidad como sensor de imagen, todos los circuitos tienen una larga vida útil y alta fiabilidad. Una excelente imagen que será la mejor elección para su cámara.

## Características principales

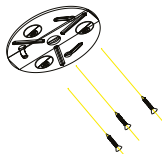
1. Fácil de instalar y ensamblar.
2. Alta resolución, alta sensibilidad y alto rango s/n.
3. Baja iluminación, alta calidad de imagen.
4. El sensor CCD prolonga la vida útil de la cámara.
5. Con DSP y chip CCD SONY, imagen clara y estable.

## Precauciones

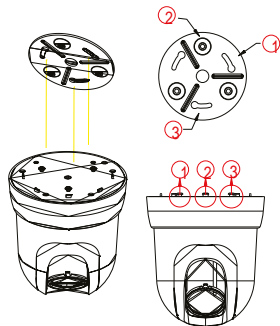
1. No instale la cámara en lugares donde la temperatura es mayor a 50°C o inferior a -10°C.
2. No toque la superficie del CCD con el dedo. Si es necesario limpiar, use un trapo suave con un poco de alcohol.
3. No instale en lugares altamente húmedos, puede causar serios daños en la imagen.
4. Cuidar de que no reciba golpes fuertes o se caiga.
5. No exponer la cámara frente a luz fuerte, esto puede dañar el CCD.
6. No exponga la cámara a un ambiente polvoriento o lluvioso.
7. Es sumamente importante usar la electricidad correcta (DC12V) para la cámara.
8. Solo personal profesional y calificado técnicamente puede instalar y probar esta cámara.
9. Durante el uso, si alguna falla ocurre, corte la corriente inmediatamente y contacte a su distribuidor local.

## Instalación

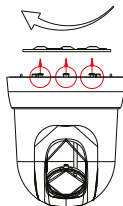
### 1. MODELOS PI



Paso 1.  
Instalar el soporte de techo

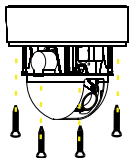
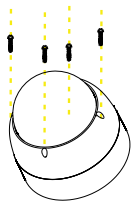


Paso 2.  
Instale la cámara en el soporte

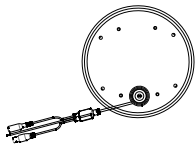


Paso 3.  
Rotar la cámara en sentido de las agujas del reloj hasta escuchar un sonido de clic

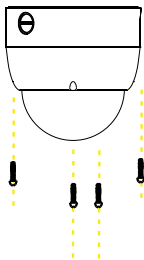
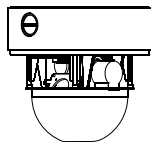
## 2. MODELOS PA



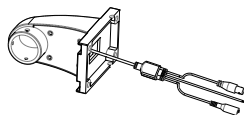
Paso 1.  
Instalar el soporte  
de techo



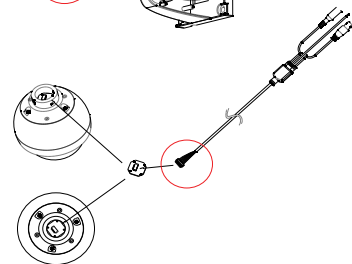
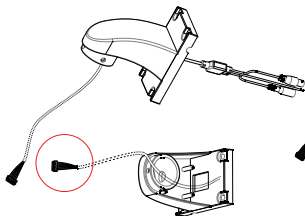
Paso 2.  
Instale la cámara  
en el soporte



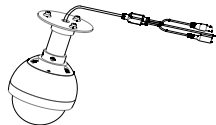
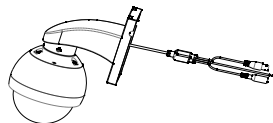
## 3. MODELOS PZ



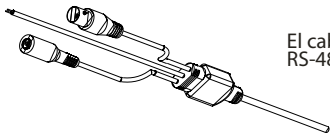
Paso 1.  
Instalar el cable en  
el soporte



Paso 2.  
Conecte el cable  
a la cámara



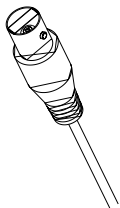
## Conexión del Cable



El cable incluye poder, RS-485 y salida de vídeo.



La interfaz RS-485 consta de dos cables:  
Color púrpura es 485 A/+  
Color gris es 485 B/-



interfaz de salida de vídeo



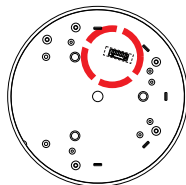
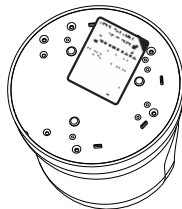
Interface de poder:  
necesita conectar +12V DC  
adentro es (+), afuera es (-).

## Configuración del interruptor DIP

Con el interruptor DIP usted puede configurar la dirección, el protocolo y la velocidad de transmisión de la cámara.

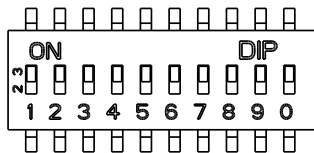
### 1-Modelos PI

La unidad DIP estará ubicada debajo de la etiqueta en el montaje para el techo.



### 2-Modelos PZ/PA

La unidad DIP esta ubicada en el tablero de la cámara debajo de la cubierta plástica.



Para configurar la dirección, protocolo y velocidad de transmisión con el interruptor DIP use los siguientes valores:

## DIP 1-6 para configurar la dirección (DEFAULT 001)

Configuración dirección Pelco D

Dirección	Configuración Interruptor					
	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF

Configuración dirección Pelco P

Dirección	Configuración Interruptor					
	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6
1	OFF	OFF	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF	OFF	OFF
3	OFF	ON	OFF	OFF	OFF	OFF
4	ON	ON	OFF	OFF	OFF	OFF
5	OFF	OFF	ON	OFF	OFF	OFF
6	ON	OFF	ON	OFF	OFF	OFF
7	OFF	ON	ON	OFF	OFF	OFF
8	ON	ON	ON	OFF	OFF	OFF
9	OFF	OFF	OFF	ON	OFF	OFF
10	ON	OFF	OFF	ON	OFF	OFF
11	OFF	ON	OFF	ON	OFF	OFF
12	ON	ON	OFF	ON	OFF	OFF
13	OFF	OFF	ON	ON	OFF	OFF
14	ON	OFF	ON	ON	OFF	OFF
15	OFF	ON	ON	ON	OFF	OFF
16	ON	ON	ON	ON	OFF	OFF

## DIP 7,8 para la velocidad de transmisión (DEFAULT 2400)

9600	OFF	ON
4800	ON	ON
2400	OFF	OFF
1200	ON	OFF

## DIP para Protocolo (DEFAULT Pelcod)

Pelco P	ON
Pelco D	OFF

## Configuración de dirección, Protocolo y velocidad de transmisión para el controlador remoto

Via control remoto puede controlar varias cámaras con diferente dirección, protocolo y velocidad de transmisión (Dirección 1 es Pelco P velocidad de transmisión 9600, dirección 2 puede ser Pelco D velocidad de transmisión 2400)

Para programar el protocolo de controlador remoto y velocidad de transmisión para cada dirección utilice los siguientes pasos:

- conectar las cámaras al control remoto plug RS-485
- escoger el canal presionando número en el control remoto
- presione setup por 3-5 segundos, la pantalla mostrará el número y la letra, por ejemplo D=24, este es el protocolo y velocidad de transmisión de esta dirección.

La letra se refiere al protocolo: D- Pelco D, P- Pelco P, El número significa la velocidad de transmisión:

- 12 significa velocidad de transmisión 1200
- 24 significa velocidad de transmisión 2400
- 48 significa velocidad de transmisión 4800
- 96 significa velocidad de transmisión 9600

- Para modificar use las teclas Izquierda/Derecha para velocidad de transmisión y arriba/Abajo para protocolo en el control remoto

-Presione la tecla Enter para guardar

Para limpiar los setup y configuración predeterminada del control remoto pulse la tecla C. Configuración Por defecto- toda dirección Pelco D velocidad de transmisión 2400

## Especificaciones Mecánicas

	Modelos PI	Modelos PA	Modelos PZ
Tipo Domo:	Indoor IR	Indoor Antivandalismo	Indoor/Outdoor plástico (M para metálico)
Píxeles Efectivos:	PAL:500x582		
Protocolo:	Pelco-P/D		
Vel. de transmisión:	1200/2400/4800/9600 bps		
Dirección:	0-255		
Rotación Paneo:	360° Rotación continua		
Rotación Tilt:	0°~90°		
Vel. Max. Paneo:	60°/Sec		
Vel. Max. Tilt:	30°/Sec		
Vel. Predeterminada:	60°/Sec		100°/Sec
Precisión Predet.:	±3°		
Puntos Predet.:	32 Points		
Pattern Tours:	16 puntos preprogramados Número programable y tiempo estatico / velocidad		
Auto escaneo:	Si (Velocidad programable y punto limite derecho/izquierdo)		
Desconexión de memoria:	Estado y configuración actual (Patrón incluido, autoescaneo no incluido)		
Posición home:	Si (Retorno automático al punto inicial Programable)		
Zoom:	Optico 3X		
Comunicación:	RS485 (+/-)		
Protección:	Para interiores	IP66 para uso exterior (Montaje de pared)	
Operación:	0°C ~ 60°C		-5°C ~ 60°C
Poder:	12VDC 500mA		

## Especificaciones de la Cámara

	PI-355CSVF	PI-325CSVF
Dispositivo de imagen	1/3" SONY HQ1	1/3" SONY DSP Chipset
Resolución Horizontal	540TVL	420TVL
Píxeles Efectivos	PAL:795(H)x596(V) NTSC:811(H)x508(V)	PAL:537(H)x597(V) NTSC:537(H)x505(V)
Fuente de alimentación	12V DC, 80mA	
Sistema de video	PAL/NTSC	
Balance de blancos	Auto	
Sistema de sinc.	Interno	
Iluminación mínima	0.5Lux /F1.2 (0 Lux IR On)	
Rango S/N	≥48db	
Velocidad de disparo	1/50(1/60)-1/100000 Sec	
Señal de video	1.0vp-p750hms.	
Lentes	06/4~9/8~20mm	
Número de LEDS	24 pcs (PTD-208)	

	PZ-355CSVF	PZ-325CSVF
Dispositivo de imagen	1/3" SONY HQ1	1/3" SONY DSP Chipset
Resolución Horizontal	540TVL	420TVL
Píxeles Efectivos	PAL:795(H)x596(V) NTSC:811(H)x508(V)	PAL:537(H)x597(V) NTSC:537(H)x505(V)
Fuente de alimentación	12V DC, 80mA	
Sistema de video	PAL/NTSC	
Balance de blancos	Auto	
Sistema de sinc.	Interno	
Iluminación mínima	0.02Lux /F1.2	0.05Lux /F1.2
Rango S/N	≥48db	
Velocidad de disparo	1/50(1/60)-1/100000 Sec	
Señal de video	1.0vp-p750hms.	
Lentes	06/4~9/8~20mm	



## Especificaciones Mecánicas

	<b>PA-355CSVF</b>	<b>PA-325CSVF</b>
Dispositivo de imagen		
Resolución Horizontal	1/3" SONY HQ1	1/3" SONY DSP Chipset
Pixels Efectivos	540TVL	420TVL
Fuente de alimentación	PAL:795(H)x596(V) NTSC:811(H)x508(V)	PAL:537(H)x597(V) NTSC:537(H)x505(V)
Sistema de video	12V DC, 80mA	
Balance de blancos	PAL/NTSC	
Sistema de sinc.	Auto	
Iluminación mínima	Interno	
Rango S/N	0.02Lux /F1.2	0.05Lux /F1.2
Velocidad de disparo	≥48db	
Señal de video	1/50(1/60)-1/100000 Sec	
Lentes	1.0vp-p750hms. 06/4-9/8-20mm	

## Notes / Notas

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