

# OUTDOOR SPEED DOME

## HD Series ... 26x or 22x . IP-66 . 360° + 180° . fan & heater

- IP-66 weather-resistant housing for outdoor
- Sony super-HAD CCD; 480-line High resolution
- Optical zoom (26x or 22x) + 10-time digital zoom
- Pan 360°(continuous); Tilt 180° (by auto-rotation)
- Maximum speed up to 240°
- Slow shutter (frame integration) for low-light
- Pelco™ D/P compatible, work with most keyboard / DVR
- 64presets + 256 camera ID
- Multiple scan mode -- line, group and all
- 3 alarm-in + one alarm-out
- Pendant and wall + corner and pole mounting brackets



### Feature

#### IP-66 . indoor and outdoor

Although the HD series is built with a double layer housing, this PTZ camera is a terrific piece for both of indoor and outdoor surveillance --- not only because of the housing, which has fan and heater for crucial outdoor environment, but also the rich functions provided by it for different environmental requirements for indoor and outdoor.

The housing is supported by corner and pole mount brackets (see illustration in next page).

#### high speed . 360° + 180°

The moving speed of HD series is ranged from 0.5 to 240° / sec, but the actual running speed will be subject to users' manipulation through controller (such as keyboard, DVR or video server) or some preset functions.

The HD series may rotate continuously in the horizontal direction, either clockwise or counter-clockwise. For vertical direction, it moves 90° as the mechanical limit but the software will rotate camera automatically in horizontal direction when hitting the vertical edge, therefore may provide 180-degree view-range along to vertical axis...

The 360°+180° view ranges, plus the high speed, gives HD series series the power to grab target in short time.

#### auto-run . line-scan

HD series has internal memory for 64 presets (including zoom and focus) for surveillance, and 256 numbers for camera ID. Presets are programmable for auto-run or line-scan. The first 16 of total 64 presets is automatically and equally partitioned into 4 groups for making surveillance to different positions or routes in different time periods (example: day, night or holiday). Panning between two specific points, in alternative name of line-scan, is also available in this PTZ.

During the event time, auto-run will be activated automatically to observe the areas that are pre-defined for monitoring.

#### 26x or 22x optical zoom

HD260 provides 26-time optical zoom and 10 times of digital. Focal length ranges from 3.5 to 91mm, giving wide-enough observation scope of non-distorted image during surveillance, and also the ability of catching specific target in size and detail with its fast moving zoom and focus functions.

The self-calibrating function that is built in the camera will re-align the HD series periodically and automatically, ensuring the PTZ camera will run smoothly and correctly during its journey of work.

#### high resolution . day-n-night

HD series PTZ camera uses Sony super-HAD CCD and provides 480-line high resolution image in detail and vivid color.

To view scene in dark, the slow shutter, an user-optional and adjustable function available in OSD menu, will do great help on obtaining bright-enough image by integrating 2 or more frames for forming one picture.

The DSS function will be automatically disengaged to turn camera back to normal exposure method when ambient light becomes sufficient.

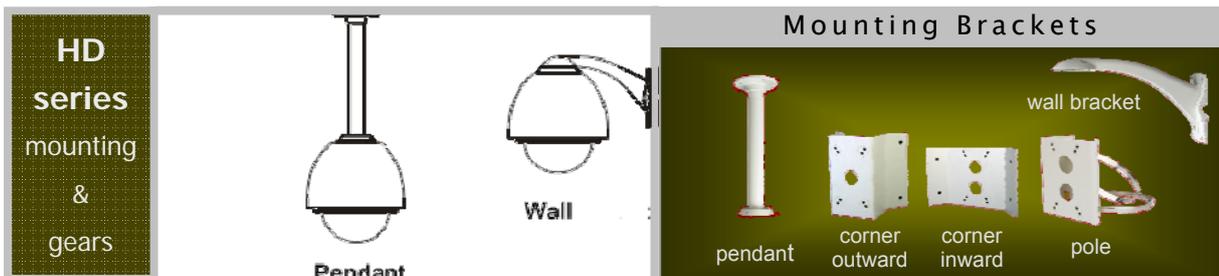
#### low noise

The HD series camera has high signal-to-noise ratio over than 50dB, allowing the camera to deliver clear image.

Video noise appeared in low-light is the primary killer to DVR performance, in terms of recorded image quality and HDD space.

The low-noise image provided by HD series not only makes great improvement on image clarity but also saves DVR's recording space and data volume for network streaming, so that the overall efficiency and dependability of surveillance system will be significantly increased.

function		HD-260	HD-220	
Image sensor	type	1/4-inch, Sony Super HAD		
	pixel	NTSC / PAL	410K / 470K	
	scanning	lines / fields	525 / 60 (NTSC) , 625 / 50 (PAL)	
	Electronic shutter	1/60 (50) ~ 1/120,000		
video	resolution	Color mode	480 lines	
	S/N ratio	> 48 dB		
	output level	1.0 Vp-p ( 75 ohms)		
optics and lens	zoom (optical / digital)	26x / 10x	22x/ 10x	
	iris	wide / tele	F1.6 ~ 3.8	
	focal-length	wide / tele	f 3.5 ~ 91 mm	
	Minimum luminance F 1.6	Color mode	1.5 lux	1.5 lux
		Black / white mode	0.1 lux	0.1 lux
		Slow shutter	0.05 lux (sense-up x 36)	0.05 lux (sense-up x 36)
	zoom	manual		
	focus	fully-auto / manual / zoom-tracking		
	iris	auto / manual		
	slow shutter / frame integration	6x, 12x, 16x, 18x, 22x, 24x, 30x, 36x		
White balance	auto (ATW or AWB)			
pan & tilt	pan range	360° continuous		
	tilt range	0 ~ 90°+ auto-rotation (view range: 180°)		
	Speed (/ sec)	Horizontal – manual	0.5 ~ 240 °	
		Vertical - manual	0.5 ~ 240 °	
		Call preset	240 °	
	dwelt	second	1 to 255	
	preset	64		
	auto-run	all, group, line (2-spots)		
auto-pan speed	horizontal	2, 6, 12, 30, 60, 120 ° / second		
	vertical	2, 6, 12, 30, 60, 120 ° / second		
connectivity	Video	BNC		
	Power	Terminal Block		
	RS485	Terminal Block		
	Alarm I/O	Terminal Block (input x 3 / output x 1)		
communication	protocol	Pelco D , Pelco P		
	format	RS485		
	baud rate	2400, 4800, 9600		
	camera ID	255		
measurement	diameter x height	mm	150φx 262 mm	
	weight	g	4000	
power	voltage	V	DC 12V	
	Consumption	watts	18 W	
environment	water-resistant	IP-66		
	temperature	operation	-20°C ~ 55°C	
		storage	0°C ~ 60°C	
	humidity	operation	85% RH	
storage		85% RH		



due to continuous product improvement, this literature and specification can be changed without prior notice