

**24 Hour Outdoor Surveillance
with SONY Exview™ HAD CCD
High-Speed Dome and
Multi-Function
Keyboard Controller**



EPTZ1000



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Version1 (20050808)



EKB500



24 Hour Outdoor Surveillance with SONY Exview™ HAD CCD High-Speed Dome and Multi-Function Keyboard Controller

The EPTZ1000 high-speed dome camera

► The EPTZ1000 high-speed dome camera has 18x optical and 12 x digital zoom, with the ability to zoom in 216xs to capture the finest details. Comprised with industry leading features such as the Sony Exview CCD, it displays true day/night high-resolution images. With continuous auto focus, back light compensation, auto iris controls, 360 degrees of endless rotation, high speed pan/tilt, and RS-485 communication channels, this PTZ is applicable for any situation.

The EPTZ1000 can be installed in some of the most demanding applications due to its weatherproof rating of IP66. Typical installations include supermarkets, parking garages, casinos and areas of large people traffic. Furthermore, the camera has excellent picture resolution and will automatically switch from high-resolution color to high monochrome when light levels drop below 0.7 lux.

Multi-Function Keyboard Controller

► The multi-function keyboard controller, EKB500 is designed to control speed domes, DVRs, cameras, monitors and security devices like access control. The EKB500 keyboard controller provides a user friendly interface which allows preferential programming extending the units flexibility. Local alarm signals can be carried out to a remote operation center through two RS-485/232 paths. The alarm signal can be customized to connect the different devices.

There are 3 hot keys for calling the camera, DVR and monitor functions, allowing you to switch functions without interruption. The EKB500 keyboard controller is capable of controlling a speed dome's pan and tilt movement with variable speeds from 0.1/sec to 360/sec as well as its zoom, focus and iris. Most commands can be easily performed by a one-touch button. Up to 8 EKB500 multi-function keyboard controllers can be cascaded to control simultaneously from distant places.

EverFocus believes even the most powerful system is pointless if it isn't easy to install, configure, and easily operate. EKB500's easy installation and simple operations give you an excellent solution to integrate and control security devices.

Speed Dome (EPTZ1000) Special Features:

- 1/4" Sony Exview CCD
- Weatherproof rated IP66
- 470 Color Horizontal Television Lines
- RS-485 with multi protocols (PELCO-D; PELCO-P; EverFocus Enhance Protocol)
- Dome Address 0-255
- Auto Tracking achievable with external device
- Built-in surge protection
- Minimum illumination of 0.7lux (typical)
- Auto Pan, tilt and zoom functions
- Up to 256 unique position points
- Built-in 4 alarm inputs
- Fan and Heater for Circulation (Heater turns on at 15 °C; off at 25 °C, Fan turns on at 40 °C; off at 30 °C)
- Auto/Manual BLC, AGC, and White Balance
- Additional function provided with EverFocus keyboard
- Motion detection with additional "Auto Tracking module" device
- Customized configuration would not be lost when the power shut down unintentionally

Multi-Function Keyboard Controller (EKB500) Special Features:

- Capable of Controlling Speed Dome camera, DVR, Access Control and Monitor
- 3D Joystick Control of PTZ function
- LCD Display (20 x 2 lines)
- Multi-Protocol Support (Everfocus_enhance protocol; Pelco P/D)
- Jog Shuttle Control of DVR
- Password protection to prevent unauthorized intruder
- Customized, upgradeable firmware for specific applications
- Matrix control (EverFocus DVR series products)
- Ergonomic buttons placement with sound indication for easy usage
- Access OSD form of connected devices with control key mapping
- Two independent Communication ports with selectable baud rate from 1200 bps to 38400 bps
- Naming of connected camera for easy reorganization
- Auto tracking by external signal processor unit
- Optional integration with alarm inputs of Access Control devices



ADVANTAGES

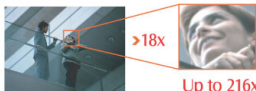
▶ HIGH-SPEED PANNING AT 360 DEGREE/SEC.

The maximum panning speed of 360 degrees/sec quickly captures an object. The range of surveillance is 360 degrees in the horizontal direction (endless panning) and 180 degrees in the vertical direction (one-motion panning)



▶ 12X DIGITAL ZOOM AND 216X ZOOM MAGNIFICATION

The combined use of a 18x optical zoom lens and 12x electronic zooming function provides a maximum magnification of 216x.



▶ MICRO MOVEMENT

With this feature, the EKB500 is able to easily control the speed dome so you will not lose your chosen target during the zooming function of the camera.

▶ MAXIMUM 192 PRESET POSITIONS

A press of a key on the controller enables the selection of preset positions.

▶ ALARM INPUTS AND OUTPUTS ENABLE THE CONTROL OF EXTERNAL DEVICES



The output connector features 4 alarm inputs and 1 alarm output. Each alarm signal can operate under preset positions, zooming functions and the addition of external devices, such as a DVRs or VCRs (while recording).

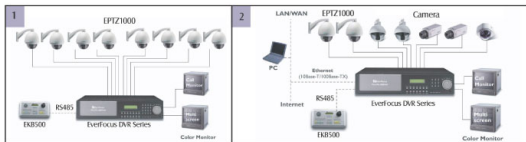
▶ MINIMUM ILLUMINATION IS 0.7LUX AT B/W IMAGING

The camera has excellent picture resolution and will automatically switch from high-resolution color to high monochrome when light drops below 0.7lux.

KEYBOARD CONTROLLER (EKB5000) SPECIFICATIONS

Input Voltage	DC 12V
Power Consumption	10W
Device	Control PTZ Speed Dome, DVR, Access Control & Monitor
Protocols	Pelco-D, Pelco-P, Everfocus_Enhance Protocols
Remote Control	RS-232/RS-485
Baud Rate	1200 to 38400
LCD Display	20 x 2 Characters
Integration	Up to 8 keyboard cascading connection
Auto Surveillance	Position, Tour, Auto Pan
Wiring Box	Yes
Operating Temperature	0 °C to 40 °C
Operating Humidity	< 95%
Dimension	380(W) x 180(H) x 95(D)
Weight	1.5Kg

SYSTEM EXAMPLES



SPEED DOME (EPTZ1000) LENS SPECIFICATIONS

Image device	1/4 type CCD ExView HAD
Effective picture pixels	Approx. 380,000 pixels
Lens	18x optical zoom, F=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0
Zoom ratio	18x Optical (12x Digital zoom)
Viewing angle(H)	48.0° (wide end) to 2.8 (tele end)
Minimum object distance	35 mm (wide end) to 800 mm (tele end)
S/N ratio	More than 50dB
Sync system	Internal/External (V-Lock)
Minimum illumination	0.7 lx (typical) (F1.4, 50 IRE)
Electronic shutter	1/1 to 1/10,000 s, 22 steps
White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual
Gain	Auto/Manual (-3 to 28 dB, 2 dB steps)
AE control	Auto, Manual, Priority mode, Bright, EV compensation, Back-light compensation
EV compensation	-10.5 to + 10.5 dB (1.5 dB steps)
Back light compensation	On/Off
Flicker cancel	Auto
Focusing system	Auto (Sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom Trigger AF
Picture effects	E-flip, Nega Art, Black&White, Mirror image
Camera operation switch	Zoom tele, zoom wide
Video output	VBS: 1.0 Vp-p (sync negative), Y/C Output
Camera control interface	VISCA (TTL signal level), baud rate: 9.6Kb/s, 19.2Kb/s, 38.4Kb/s, Stop bit: 1/2 selectable
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Operating temperature	0 to +50 °C (32 to 122 °F)
Power consumption	6 to 12 V DC/1.6 W (motor inactive), 2.5W (motor active)

SPEED DOME (EPTZ1000) SPECIFICATIONS








Power Supply	AC 24V
Power consumption	18W without heater; 70W with heater
Operating temperature	Indoor: 0°C TO +40 °C Outdoor: -40°C TO +60 °C
Operating moisture	<= 95%
Communication	RS-485
Communication speed	1200/2400/4800/9600bps
Horizontal rotation speed	0.1 °/s TO 360 °/s
Horizontal rotation range	360 unlimited rotation
Tilt rotation range	90 °
Auto flip	Rotates 180° when camera tilts to the vertical position
Auto zoom speed control	Control speed auto-adjusted according to zoom length changing
Auto Pan, 2 points scanning	Can set freely
Auto Pan speed	1 TO 128 grade available
Dwell time (2 points)	1 TO 60s available
Preset Positions	192
Running to position speed	1 TO 128 grade available, 0.02 °/s - 360 °/s
Dwell time at preset position	1 TO 60s available
Tour	16 group
Tour point per group	16 preset positions
Fan, Heater (outdoor model)	fan and heater auto starts
Position Accuracy	+/- 0.1°
Alarm	4 in 1 with tour/position auto triggering
Proportional Pan Speed	Yes
Built-in menu for functions	Yes
Built-in Protocols	Pelco-P Pelco-D Everfocus Enhance
Communication	RS485
Address editable through DIP switch	Yes
Speed Dome Address	0-255
Manual Pan/tilt speed	Pan: 0.1° TO 120°/s Tilt: 0.1° TO 60°/s
Video Output	BNC
Dimension	220(W) x 310(H)mm
Weight	3.2kg

Ordering Information:

Speed dome

EPTZ1000WM01N1: 18X speed dome Sony, D/N, outdoor with heater/fan, mirror, NTSC, 120V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000WM01P1: 18X speed dome Sony, D/N, outdoor with heater/fan, mirror, PAL, 220V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DM02N1: 18X speed dome Sony, Day, Indoor, mirror, NTSC, 120V Including ceiling mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DM02P1: 18X speed dome Sony, Day, Indoor, mirror, PAL, 220V Including ceiling mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000WC01N1: 18X speed dome Sony, D/N, outdoor with heater/fan, clear, NTSC, 120V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000WC01P1: 18X speed dome Sony, D/N, outdoor with heater/fan, clear, PAL, 220V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DC02N1: 18X speed dome Sony, Day, Indoor, clear, NTSC, 120V Including ceiling mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DC02P1: 18X speed dome Sony, Day, Indoor, clear, PAL, 220V Including ceiling mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000WB01N1: 18X speed dome Sony, D/N, outdoor with heater/fan, smoked, NTSC, 120V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000WB01P1: 18X speed dome Sony, D/N, outdoor with heater/fan, smoked, PAL, 220V Including wall mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DB02N1: 18X speed dome Sony, Day, Indoor, smoked, NTSC, 120V Including ceiling mounting kit, AC adapter, Communication cable, and manual.
EPTZ1000DB02P1: 18X speed dome Sony, Day, Indoor, smoked, PAL, 220V Including ceiling mounting kit, AC adapter, Communication cable, and manual.

Optional options

	EPTZ-10 Pole adapter		EPTZ-30 Drop mount		EPTZ-50 Embedded ceiling mount		EPTZ-70 Inner corner mount
	EPTZ-20 Pole mount		EPTZ-40 Ceiling mount		EPTZ-60 Outer corner mount		

Keyboard Controller

EKB500: Multi-Function keyboard controller
