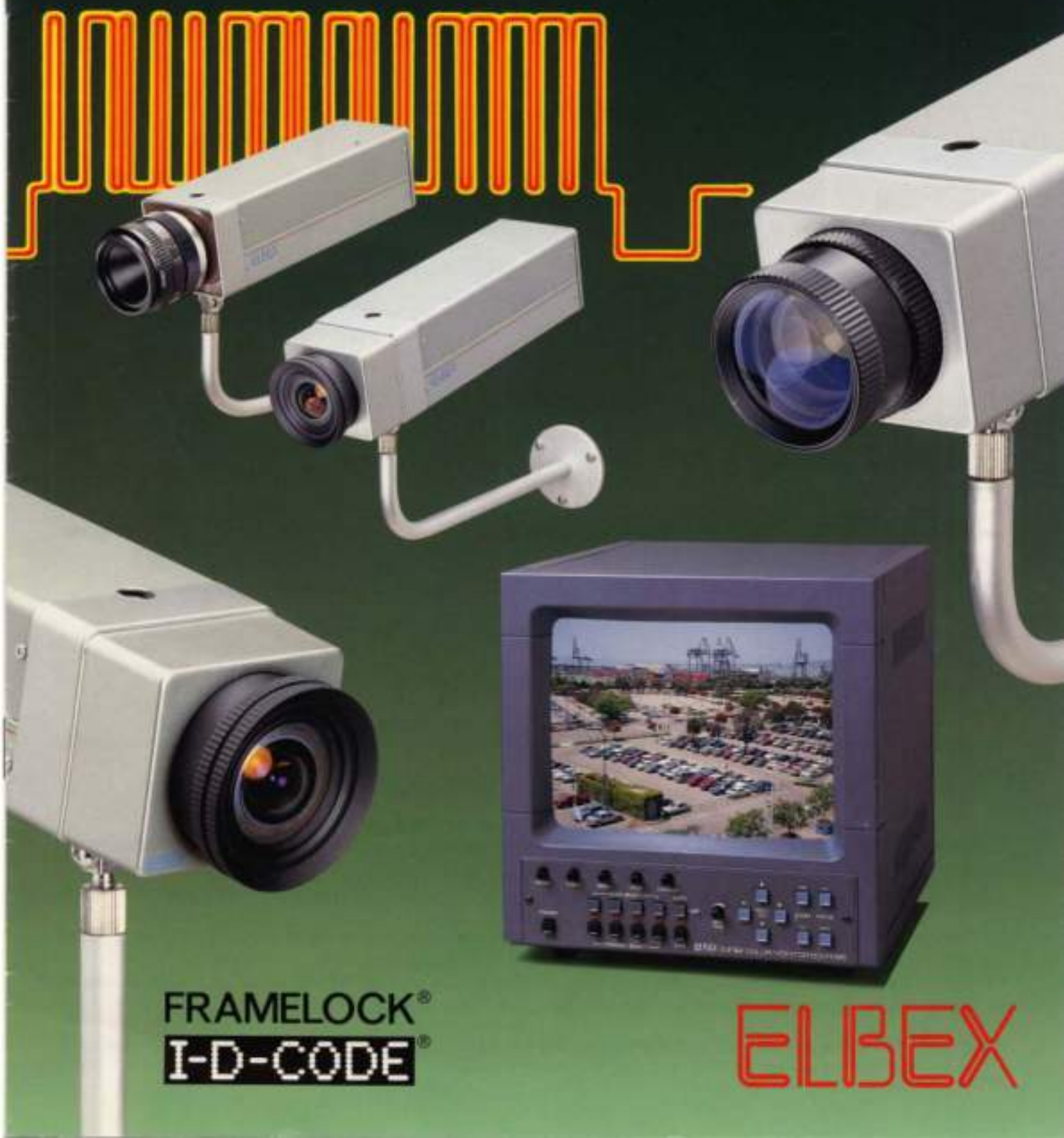


ELBEX TEMV[®] EXC300 SERIES 1/2" COLOR CAMERAS

FULL RANGE OF COMPACT CCTV CAMERAS WITH "C"/"CS" MOUNT OR BUILT-IN AUTO IRIS LENSES AND WITH AUDIO, EXT. SYNC AND POWER THROUGH THE COAX, ALONG WITH 12V DC, 24V AC OR LINE POWERED MODELS FOR SECURITY, OBSERVATION, MEDICAL, COMPUTERS AND MACHINE VISION.



FRAMELOCK[®]
I-D-CODE[®]

ELBEX

EXC300 CCD SERIES HIGH RESOLUTION 1/2" PRIME COLOR CAMERAS.



HIGH SENSITIVITY - 1 LUX
(AGC 24dB) AND S/N 47dB

HIGH RESOLUTION (330H. TVL)





SUPERIOR LIGHT HANDLING
CAPABILITIES, (1.5-100K LUX)

AUTO COLOR TEMPERATURE
COMPENSATION (2856°K-7000°K)

SELF-ADJUSTING AUTO WHITE
BALANCE-THROUGH THE LENS

THE EXC300 CCD SERIES OFFERS FULL RANGE OF MODELS WITH A WIDE CHOICE OF INDISPENSABLE PRACTICAL FEATURES.

A CHOICE OF POWER SOURCE

EXC300 series		Power through the coax cable.* Up to 220m (700ft) with RG59U, 660m (2200ft) with RG11U
EXC320 series		12V-16V DC with low current, max. 190mA (3.2W)
EXC360 series		22V-26V AC/DC with low power consumption (3.5W)
EXC380 series		Standard AC power line 100V, 120V, 230V or 240V 50/60Hz (4.0W)


*EXC300 series operates through EP100/EP102 power supplies.

ELECTRONIC SHUTTER AND LOW LIGHT LEVELS CAPABILITIES

  EMPLOYING HIGH DENSITY CCD IMAGER, THE EXC200 OFFERS OUTSTANDING LOW LIGHT PERFORMANCE WITH LOW NOISE AND HIGH RESOLUTION

Using improved video processing along with video enhancement and low noise, efficient AGC amp. the EXC300 camera series offers superb picture quality at low light levels.

Dynamic color control with through the lens auto white balance circuits depict exceptional natural colors regardless of the scene content and against wide range of illuminator's color temperature.

 To ensure smear and lag free observation of fast moving objects under well illuminated conditions, the EXC300 series incorporates user switchable (1:250 sec.) electronic shutter. The shutter is accessible through the camera cover for easy and simple setting.

A CHOICE OF BUILT-IN AUTO IRIS LENS

Fish eye (120°)		3mm, F1.4 with ND & Quartz filters Focus ranges from macro to infinity.
Super wide angle (90°)		4.4mm, F1.4 with ND & Quartz filters Focus ranges from macro to infinity.
Very wide angle (68°)		6mm, F1.4 with ND & Quartz filters Focus ranges from macro to infinity.
Medium wide angle (52°)		8mm, F1.4 with ND & Quartz filters Focus ranges from macro to infinity.
Wide angle (45°)		10mm, F1.4 with ND & Quartz filters Focus ranges from macro to infinity.
Vari-focal wide to medium tele (40°- 20°)	 	12.5-25mm, F1.6 with ND & Quartz filters Focus ranges from 1.5m to infinity.



3mm



4.4mm



6mm



8mm



10mm



12.5mm



25mm

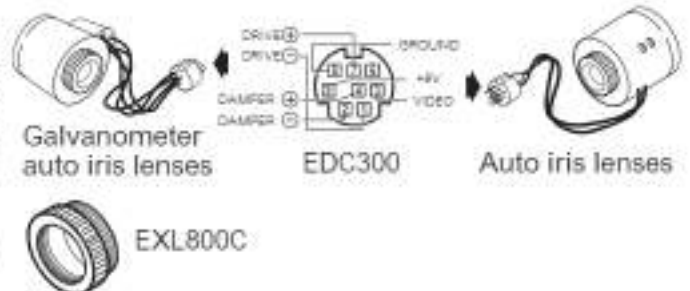
* Lenses angles of view are measured diagonally, for estimated horizontal coverage multiply the diagonal angle by 0.8 and for vertical coverage by 0.6.

A CHOICE OF "C"/"CS" MOUNT MODELS




"CS" MOUNT RECEPTACLE WITH SIMPLIFIED BACK FOCUS ADJUSTMENT AND AUTO IRIS CONNECTOR.

The "C"/"CS" mount models are supplied as standard with "CS" mount receptacle. The mini DIN connector provides two way iris control; power and video signal for standard "C" mount lenses and control circuit for "CS" mount galvanometer iris lenses. Both "C" & "CS" mount models are supplied with EDC300 plug. For "C" mount lens use the adaptor ring model EXL800C, or specify "C" mount when ordering.



CHOICE OF MODELS WITH AUDIO EXT. SYNC

 **BUILT-IN SENSITIVE MIC & AUDIO AMP. –**
 MODELS: EXC323, EXC363, EXC383, EXC326, EXC366 & EXC386

Efficient electret mic and audio amp. provides very sensitive sound pick-up with low noise, giving increased alertness in security systems. The audio signal is transmitted via a shielded wire. Elbex full range of switchers (EXS120-EXS140 series) and a range of monitors incorporate audio.

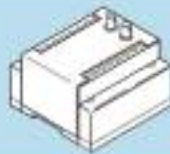
 **EXT. SYNC – FRAMELOCK®** (See chart for selection of cameras with ext. sync)

Patented ext. sync system, transmitting 25Hz (PAL) or 29.97Hz (NTSC) vertical sync pulses via the video coax cable in reverse direction to the video propagation. The camera will lock automatically to the ext. sync pulses for a perfect 2:1 interlace when the ext. sync detector in the camera detects the ext. sync pulses. In the absence of ext. sync the camera will operate on its internal 2:1 interlace sync.

A CHOICE OF POWER SUPPLIES & FRAMELOCK ACCESSORIES

POWER SUPPLIES FOR EXC300 SERIES (VIA COAX)

EP100E;EP100U
 150mA regulated current.



E=230V/240V AC
 U=100V/120V AC

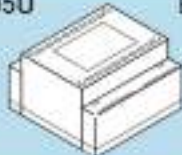
EP700
 150mA regulated current.



Specify AC power line

15V DC & 24V AC POWER SUPPLIES

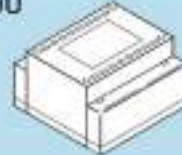
EP15/05E;EP15/05U
 15V DC; 0.5A



E=220V/240V AC
 U=100V/120V AC

EP24/04E;EP24/04U
 24V AC;0.4A

EP15/10E;EP15/10U
 15V DC;1A



EP24/09E;EP24/09U
 24V AC;0.9A

For cameras with heaters

FRAMELOCK® EXT. SYNC GENERATORS & LINE AMPLIFIERS

EXSG147 Cascadable sync gen.



8 cameras

EXSE30-4
 In line sync.
 expander

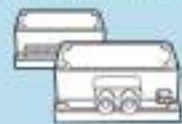


EXSG30-4
 In line
 sync. gen.

4 cameras

EXBR30/35 Booster/cable compensator

EXBR35
 (with
 P. T. Z. F.)



EXBR30
 500m with EC7
 1km with RG59U

EXSG127 Cascadable sync gen.



16 cameras

EAGC30 In line video AGC amplifier



EXDT30/35 Distribution amplifiers

EXDT30-4
 EXDT30-6
 1 input -
 4/6 outputs



EXDT35-4
 EXDT35-5
 (with P. T. Z. F.)
 1 input -
 4/5 outputs

UNLIMITED CHOICES OF MOUNTING POSITIONS

 **OPTIONAL WALL, SHELF AND CEILING MOUNTS**

Attractively styled slim mounts made of aluminum with black or silver anodized coating. The mounts are supplied with swivel joint and hardware.

Angled mount for installation on walls or other vertical structures.

**EMW380
 WALL MOUNT**



Straight mounts for installation on ceilings or flat surfaces. Both mounts are similar except their length, EMS300 is 90mm and EMC300 is 160mm long.

**EMS300
 SHELF
 MOUNT**



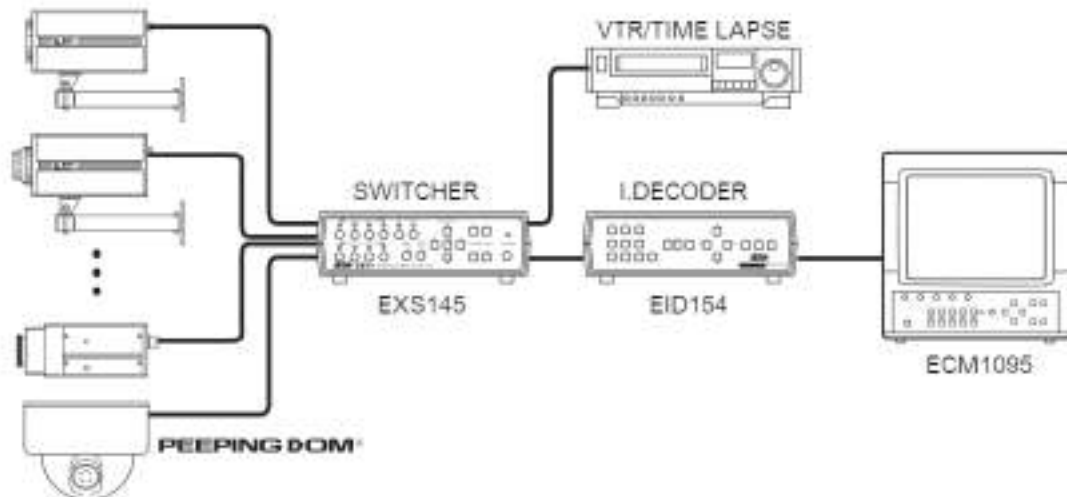
**EMC300
 CEILING
 MOUNT**

When ordering specify the mounts color, suffix "B" for black and "S" for silver, such as EMW380B (black) or EMC300S(silver).

I.D. I-D-CODE (refer to the selection chart for models with I-D-CODE®)

Patented **I-D-CODE**® system consist of invisible 16 bit binary code injected into signal horizontal line (H12) within the vertical blanking period.

The identification code is then extracted and decoded at a monitoring site using **I-DECODER**® and superimposing an I.D. number or a text onto the video display. The patented **I-D-CODE**® is also used for recording large number of cameras on a single VTR and retrieving the individual recorded signals.



Elbex cameras with **I-D-CODE**® incorporate DIP switch for setting an I.D. number from 000 to 999 which cannot be switched off, therefore, the **I-D-CODE**® becomes effectively an invisible video signal identification code that does not obstruct the display, yet, it is always there and can be retrieved and superimposed as desired. Moreover, the invisible unobstructing **I-D-CODE**® can be recorded on a VTR and when it is played back the code can be extracted for superimposing onto the video display an I.D. or a text.

I.D. Code setting switch



The **I-D-CODE**® permits large scale recording on a single VTR by using **FRAMELOCK**® synchronized frame switchers to scan large volume of cameras at a field or frame rate and retrieving (playing back) any specific signal by recalling the camera's I.D. Elbex offers such scale frame switchers (EXZ9400 series), refer to the **I-D-CODE**® accessories below.

A CHOICE OF **I-DECODER**® s & FRAME SWITCHERS

EXZ9416 16 channel frame switcher



EXZ9432 32 channel frame switcher



EXZ9448 48 channel frame switcher



Basic I.Decoder superimposes I.D. number onto video display.



EID150

Expanded I.Decoder superimposes 24 characters and time-date onto video display.



EID151

Master I.Decoder to superimpose 48 characters and synchronized time/date onto multi monitoring system.



EID154

EXC300 SERIES SPECIFICATIONS

Pick-up Device	1/2" Interline transfer CCD
Picture Elements (Pixels)	PAL 330K (537H X 597V) NTSC 272K (535H X 505V)
Scanning System-PAL	625 lines, 50 vertical fields
NTSC	525 lines, 59.94 vertical fields
Sync System	2:1 Interlaced EIA (RS170) or CCIR
Horizontal Osc. & Clock	X'tal controlled
Horizontal Resolution	330 TVL
Vertical Resolution	420 (PAL); 350 (NTSC) TVL
Amplitude Response	Greater than 50% at 240H. TVL
Bandwidth	7MHz ±3dB
Composite Video Output	1.0V p-p/75Ω
S/N Ratio	Better than 48dB (AGC off)
AGC	Up to 32dB gain
AGC Off Level	20-50 Lux
Usable Sensitivity	Better than 1.5 Lux
White Balance	Automatic trace via image signal
Light Control Range	1.5 ~ 100,000 Lux
Infra-red Suppression	Built-in optical quartz LPF/IR cut filter
Vertical Glare Arrest	Better than 60dB
Geometric Linearity	No geometric distortion
FRAMELOCK Ext. Sync	8V p-p via video coax cable
Audio Output	770mV (0dBm) (only models with direct audio)
Lens System	3mm, 4.4mm, 6mm, 10mm and 12.5-25mm, F1.4 auto iris with ND and LPF filters.
Auto Iris Delay Time	Less than 1 sec.
Electronic Shutter	1/50 ~ 1/10000 sec. (Internal setting) 1/50 or 1/250 sec. (User setting)

I-D-CODE (only models with I-D-CODE)

Camera I.D.	001-999 selectable via DIP switch
I-D-CODE	16 bit code transmitted during single horizontal line (H12 ± 1 line) of every field
Bit Width	3.2μ sec.
Bit Level High	Pulse width 0.8μ sec. ± 5% (25% of bit width)
Low	Pulse width 2.4μ sec. ± 5% (75% of bit width)
Pulse Level	0.7V p-p/75Ω
Pulse Pedestal	0.3V p-p/75Ω

POWER, ENVIRONMENT & ACCESSORIES

EXC300 Series Current Consumption	150mA via coax cable
EXC320 Series Operating Voltage	12V - 18V DC
Current Consumption	280mA (max)
EXC380 Series Operating Voltage	22V - 28V AC 50/60Hz
Power Consumption	4.5W (approx)
EXC380 Series Operating Voltage	100V, 120V, 230V or 240V AC 50/60Hz
Power Consumption	4.5W (approx)
Video Connector	BNC
Audio Connector	RCA (audio models only)
12V DC/24V AC Power Connector	2.1mm jack
Auto-Iris Connector	8 pin Mini DIN (C/CS mount models only)
Y/C Connector	4 pin Mini DIN (optional)
Ambient Temperature	-20°C to +55°C (operating range)
Dimensions	Refer to the mechanical illustrations
Approx. Weight EXC300-EXC360	400gr.
EXC380	600gr.



Specifications and dimensions subject to change without notice.

A CHOICE OF ENVIRONMENTALLY SEALED HOUSING & ACCESSORIES

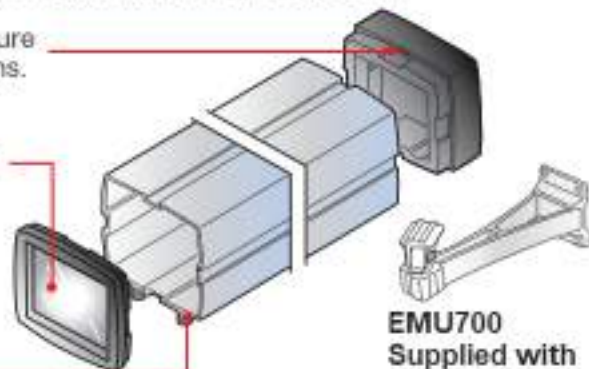
For outdoor installation the EXC300 can be mounted inside EXH300 series housing, a solid anodized aluminum camera case, having front and rear covers made of weather resistant rubber compound.

The rear cover contains cable inlets and holder, offering simple closure of the case from its rear with easy access to the electrical connections.

The front pane, embedded into the front cover is made of special polished glass, coated with dew repellent film.

Drain holes are provided at the bottom of the camera front to discharge the accumulated dew or leaking water.

Drain pipes and rear "rain coat" are standard accessories and are supplied with the outdoor camera housing.

















EMU700
Supplied with
universal mount

HOUSING AND OUTDOOR ACCESSORIES SELECTION CHART

MODEL	Heaters and thermostat ass'y				HEAVY DUTY MOUNTS		TO BE USED WITH/COMMENTS
	12VDC	24VDC	100-120V AC	200-240V AC	HOUSING	SUNSHIELD	
EH820	●						EX320 series/EXH300/230 (12-18V DC 15W)
EH860		●					EX360 series/EXH300 (24V AC 15W)
EH580-120			●				EX380 series/EXH300 (100V-120V AC 30W)
EH580-240				●			EX380 series/EXH300 (230V-240V AC 30W)
EXH300/230					●		EX300/EX320 series & EX360/EX380 series with 4.4 ~ 10mm lens
EXH300/255					●		EX360/EX380 series with 3mm and 12-25mm lens
ESS300/230						●	EXH300/230
ESS300/255						●	EXH300/255
EMU600							Yellow bichromate plated
EMU610							Glossy gray painted

MODEL NO. AND EASY SELECTION CHART

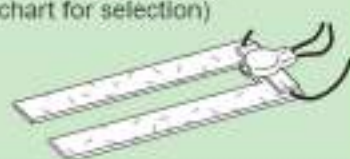
 POWER VIA COAX CABLE	 12V DC	 24V AC	 STANDARD AC POWER OUTLET	 FRAMELOCK EXT. SYNC VIA COAX	 AUDIO	 "C-FCS" MOUNT	 3mm, F1.4	 4.4mm, F1.4	 6mm, F1.4	 8mm, F1.4	 10mm, F1.4	 12.5-26mm, F1.6	 I.D. CODE
EXC300	EXC320	EXC360	EXC380			•							
EXC300/3	EXC320/3	EXC360/3	EXC380/3				•						
EXC300/4.4	EXC320/4.4	EXC360/4.4	EXC380/4.4					•					
EXC300/6	EXC320/6	EXC360/6	EXC380/6						•				
EXC300/8	EXC320/8	EXC360/8	EXC380/8							•			
EXC300/10	EXC320/10	EXC360/10	EXC380/10								•		
EXC300/12-25	EXC320/12-25	EXC360/12-25	EXC380/12-25									•	
EXC301	EXC321	EXC361	EXC381	•		•							
EXC301/3	EXC321/3	EXC361/3	EXC381/3	•			•						
EXC301/4.4	EXC321/4.4	EXC361/4.4	EXC381/4.4	•				•					
EXC301/6	EXC321/6	EXC361/6	EXC381/6	•					•				
EXC301/8	EXC321/8	EXC361/8	EXC381/8	•						•			
EXC301/10	EXC321/10	EXC361/10	EXC381/10	•							•		
EXC301/12-25	EXC321/12-25	EXC361/12-25	EXC381/12-25	•								•	
	EXC322	EXC362	EXC382	•		•							
	EXC322/3	EXC362/3	EXC382/3	•			•						
	EXC322/4.4	EXC362/4.4	EXC382/4.4	•				•					
	EXC322/6	EXC362/6	EXC382/6	•					•				
	EXC322/8	EXC362/8	EXC382/8	•						•			
	EXC322/10	EXC362/10	EXC382/10	•							•		
	EXC322/12-25	EXC362/12-25	EXC382/12-25	•								•	
	EXC323	EXC363	EXC383	•	•	•							
	EXC323/3	EXC363/3	EXC383/3	•	•		•						
	EXC323/4.4	EXC363/4.4	EXC383/4.4	•	•			•					
	EXC323/6	EXC363/6	EXC383/6	•	•				•				
	EXC323/8	EXC363/8	EXC383/8	•	•					•			
	EXC323/10	EXC363/10	EXC383/10	•	•						•		
	EXC323/12-25	EXC363/12-25	EXC383/12-25	•	•							•	
EXC304	EXC324	EXC364	EXC384	•		•							•
EXC304/3	EXC324/3	EXC364/3	EXC384/3	•			•						•
EXC304/4.4	EXC324/4.4	EXC364/4.4	EXC384/4.4	•				•					•
EXC304/6	EXC324/6	EXC364/6	EXC384/6	•					•				•
EXC304/8	EXC324/8	EXC364/8	EXC384/8	•						•			•
EXC304/10	EXC324/10	EXC364/10	EXC384/10	•							•		•
EXC304/12-25	EXC324/12-25	EXC364/12-25	EXC384/12-25	•								•	•
	EXC325	EXC365	EXC385	•		•							•
	EXC325/3	EXC365/3	EXC385/3	•			•						•
	EXC325/4.4	EXC365/4.4	EXC385/4.4	•				•					•
	EXC325/6	EXC365/6	EXC385/6	•					•				•
	EXC325/8	EXC365/8	EXC385/8	•						•			•
	EXC325/10	EXC365/10	EXC385/10	•							•		•
	EXC325/12-25	EXC365/12-25	EXC385/12-25	•								•	•
	EXC326	EXC366	EXC386	•	•	•							•
	EXC326/3	EXC366/3	EXC386/3	•	•		•						•
	EXC326/4.4	EXC366/4.4	EXC386/4.4	•	•			•					•
	EXC326/6	EXC366/6	EXC386/6	•	•				•				•
	EXC326/8	EXC366/8	EXC386/8	•	•					•			•
	EXC326/10	EXC366/10	EXC386/10	•	•						•		•
	EXC326/12-25	EXC366/12-25	EXC386/12-25	•	•							•	•

*Add suffix "P" to PAL types such as EXC322P or EXC364P/12-25

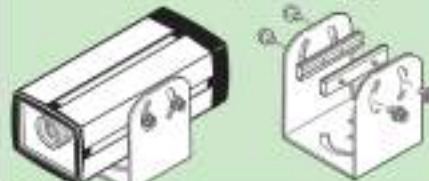
SUNSHIELD
ESS300 series
Decorative sunshield made of hairlined anodized aluminum (See chart for selection)



HEATER ASS'Y
EH500/EH800 series
Heater (30W/15W) and thermostat ass'y in 4 voltage ratings (See chart for selection)

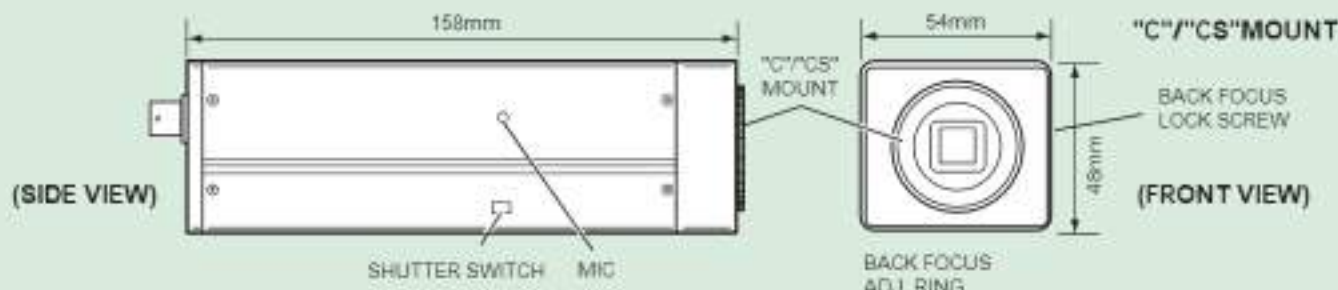
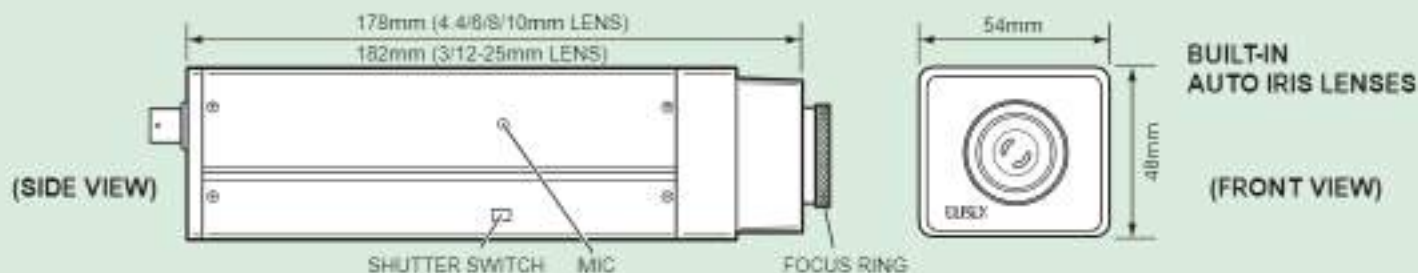


HEAVY DUTY MOUNT
EMU600 is plated in yellow bichromate
EMU610 is plated and painted gray

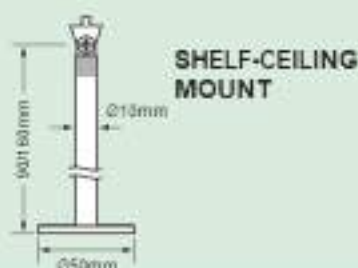


EXC300 CCD CAMERA SERIES

MAJOR OPERATING COMPONENTS



MOUNTS (OPTIONAL)



ELBEX LTD.

ELBEX AMERICA INC.

ELBEX AMERICA (N.Y.) INC.

ELBEX (DEUTSCHLAND) GMBH

ELBEX (UK) PLC

ELBEX BENELUX N.V.

ELBEX NEDERLAND

ELBEX FRANCE

ELBEX VIDEO LTD. (ISRAEL)

ELBEX SCANDINAVIA A/S

ELBEX SWEDEN

ELBEX VIDEO (H.K.) LTD.

ELBEX AUSTRALIA PTY. LTD.

ELBEX SINGAPORE PTE. LTD.

Elbex Bldg. 1-11, Nishi-Gotanda 8-Chome, Shinagawa-ku Tokyo 141-0031, Japan Tel (03) 3779-5222 Fax (03) 3779-5201

10761 Noel Street, Los Alamitos, CA 90720, U.S.A. Tel (714) 761-8000/(800) FOR-CCTV, Fax (714) 761-8400

NORTHWEST OFFICE 33739-9th Ave South Federal Way, WA 98003 Tel (253) 925-2111 Fax (253) 925-2112

300, Corporate Dr., Suite 5, Blauvelt, NY 10913, U.S.A. Tel (845) 353-0600/(800) 343-5239 Fax (845) 353-0657

Arzberger Str 2, D-93057 Regensburg, Germany Tel (0941) 69531-0 Fax (0941) 68306

ELBEX House, Phoenix Business Park Avenue Road, Birmingham, B7 4NU, U.K. Tel (121) 359-6611 Fax (121) 359-8080

LONDON OFFICE: The Pavillions, Killn Lane, Epsom, Surrey KT17 1JG Tel (0137) 274-7776 Fax (0137) 274-7875

Katwilgweg 11, 2050 Antwerpen, Belgium Tel (03) 254-0954 Fax (03) 254-0323

De Maas 13, 5684 PL Best, Holland Tel 0499-372025 Fax 0499-372199

17 rue Casimir Perier, 95875 Bezons Cedex, France Tel 01 34 23 59 00 Fax 01 30 76 16 13

8, Kehilat Venezia St. Tel Aviv 69010, Israel Tel 972-3-6494149 Fax 972-3-6494581

Damhus Boulevard 98, DK-2610 Roedovre Denmark Tel (36) 730020 Fax (36) 730029

Datavägen 6, S-436 32 Askim, Sweden Tel (031) 748 07 95 Fax (031) 748 07 99

Unit A, 1/F, On Fat Industrial Building, 12-18 Kwai Wing Road, Kwai Chung, N.T., Hong Kong Tel 27987608 Fax 27987774

SYDNEY: Unit 15, 20-30 Stubbs Street, Silverwater, NSW 2128, Australia Tel (02) 9748 6377 Fax (02) 9748 6090

MELBOURNE: Unit 2, 15, Shearson Crescent, Mentone, Vic. 3194, Australia Tel (03) 9583 8122 Fax (03) 9583 6447

BRISBANE: Unit 1, 121 Newmarket Street, Windsor, Qld, 4030, Australia Tel (07) 3857 6411 Fax (07) 3857 6445

153 Kampong Ampat #05-03, Junjie Industrial Bldg., Singapore 368326 Tel 285 6233 Fax 382 3978