MINTRON ®

MG20S (AF 20 times) Specification

SERIES NO.	MG20S
MAIN FUNCTION	Auto Focus CCD Megapixel Zoom module with Electronic PTZ HDTV mode. :20 times Zoom / SDTV(D1) App. :80 times Zoom
IMAGE SENSOR	1/3-inch Megapixel CCD Sensor (Ex-View)
CCD TOTAL PIXELS	1348(H) x 746(V) (16:9)
SCANNING SYSTEM	Progressive Scan
SYNC SYSTEM	Internal
MINIMUM ILLUMINATION	0.05 Lux@25 IRE,AGC On , F 1.8, IR Cut
RESOLUTION	800 TV Lines
AF ZOOM LENS	F No. :Wide : F 1.6 , Tele : F 3.5 Zoom: Optical Zoom 1~20 times: Stepping motor/Digital Zoom 1~10 times (Optical + Digital Zoom total : 100 times) VIEW ANGLE: Wide 67.5 °/59.9 °/34.7 ° ; Tele 3.6 °/3.1 °/1.8 ° Auto Focus: Focus range 15cm ~ ∞ at Wide side at Tele side : 1.0m ~ ∞
LENS IRIS	AUTO/FIX
VIDEO OUTPUT	Digital Output : HD-SDI or LVDS Video format: 720P@60/50/,1080P@ 30/25,1080I,@ 60/50 (Progressive/Interlace according to BT1120) Analog Output NTSC/PAL
S / N RATIO	52DB (STD) (AGC on ,Weight on)
FIXED SHUTTER	NTSC 1/30, 1/50(Flicker-Less), 1/60, 1/100, 1/120, 1/180, 1/350, 1/500, 1/750, 1/1000, 1/2000, 1/4000, 1/10000 PAL 1/25, 1/50, 1/60(Flicker-Less), 1/100, 1/120, 1/180, 1/350, 1/500, 1/750, 1/1000, 1/2000, 1/4000, 1/10000
SIMPLE ITS MODE	MODE/SHUTTER/PULES OFFSET
NOISE REDUCTION	2D&3D Noise Reduction (3D: Off/Low/Mid/High)
GAMMA CORRECTION	0.45 (CRT Display) / 0.65 (LCD Display) / 1.0 (STD)
AUTO EXPOSURE	Auto , Fix , IRIS priority 1/30~1/120000(SEC) FOR NTSC, 1/25~1/120000(SEC) FOR PAL
WHITE BALANCE	ATW/AWB (ONE PUSH)
COLOR MATRIX	TRPE1/TRPE2/ TRPE3
ANALOG VIDEO OUT	CVBS NTSC/PAL
AGC	On (AFE Fix + 6 DB, Digital AGC+30DB, total 36DB Max)/ Off
WDR	Off / On/Auto 1/ Auto 2
D-WDR	Off / Low / Mid / High

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MG20S(x20 Zoom) AF HD camera

XDR (EXTENDED WDR)	Off / Low / Mid / High
ELECTRICAL SHUTTER SPEED	On/Off, 8/1~1/10000s, 21 Steps
BACKLIGHT CONTROL	Off/ On
ENHANCEMENT CONTROL	13 Steps
ALARM CONTROL	Off/On
POSITION SAVE	64 Positions
FOG REDUCTION	Off/Low/Mid/High
ECLIPES CONTROL	Off/Low/Mid/High
MOTION DETECTION	Area/Sense-Level/Display
PRIVACY MASK	16 Masks
OSD CONTROL SYSTEM	English/Japanese/Other
FREEZE	Off/On
H/V MIRROR MODE	H/V Reverse
TITLE DISPLAY	22 Characters
DAY /NIGHTFUNCTION (ICR)	Off/On, Auto
OPERATION TEMPERATURE	-10℃ To 50℃
OPERATIONAL HUMIDITY	Within 80％ RH
POWER　SUPPLY	DC12V±1V / 280mA

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MG20 OSD Infrastructure (Index)

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Luminance Menu1/4			
LENS IRIS	AUTO/FIX	Lens iris control	
SHUTTER	AUTO/FIX/FLC	1/25,1/30,1/50,1/60,1/100,1/120,1/180,1/350,1/500.1/750,1/1000,1/2000,1/4000,1/10000.	
PEAK AVERAGC	OFF/ON	Adjust image PEAK ratio, for highlight suppression	
BACK LIGHT	OFF/ON	Brightness compensation for dark area	
WDR	OFF/ON/AUTO1/AUTO2	Wide dynamic range	
D-WDR	OFF/LOW/Middle/HIGH	Expanded dynamic range	
XDR	OFF/LOW/Middle/HIGH	Digital WDR function which is based on adaptive tone mapping.	
GAMMA	0.45/0.65/1.00/AUTO	Gamma correction function	

Luminance Menu2/4			
AGC	AUTO/FIX	Electronic sensitivity compensation which can amplify to enhance low video signal up to 36dB	
SLOW SHUTTER	OFF/LIMIT TIME/FIX	Electronic sensitivity compensation which be by frame accumulation tech.	
DNR	OFF/LOW/Middle/HIGH	To reduce random image noise	
DAY / NIGHT	DAY/NIGHT/COMPUL	ICR-SET, Control mode: auto or by External control mode	
FOG REDUCTION	OFF/LOW/Middle/HIGH	To enhance the low contrast image such as snow, fog, haze	
ECLIPSE	OFF/LOW/Middle/HIGH	To block the area which is saturation of lighting in the image.	
ENHANCE	HDV/SDV	Both HD(high definition)Video and SD(standard definition) video can be adjusted by Horizontal and Vertical	

Color Menu3/4			
COLOR MODE	MONO/OFF/ON/AUTO	Be changeable from color to B/W automatically or fixed in color	
WHITE BALANCE	AUTO/ATW/AWB	Auto tracing white balance and auto while balance –one push	
COLOR MATRIX	TRPE1/2/3	Phase change of color	
UV MATRIX	U-MATRIX/V-MATRIX	U or V- axis, R/G/B color adjustable.	
COLOR GAIN	GAIN CONTROL	Color gain adjustable.	
COLOR TONE	R-Y/B-Y	Color vector adjustable.	

Setup Menu4/4			
LANGUAGE	ENGLISH/JAPANESE/CHINESE(TRADITIONAL/SIMPLIFIED)		
TITLE	OFF/ON	TITLE can be set with display.	
DEFAULT	LOAD/SAVE/FACTORY	OSD parameter setting load or saving	
SPECIAL FUNCTION	SPECIAL FUNCTION (1/3)	CAMERA POSITION	Max:64 preset position, which have IRIS, WB, Zoom Ratio, Focus and Privacy
		ZOOM	Wide/Tele position setting, Digital Zoom PAN/ TILT setting
		FOCUS	Auto/Manual/Speed focus parameter
		PRVACY MASK	Image masking Max:16 areas and area size adjustable
		ALARM	Supports 3 modes MD, Port and MD and Port; image freeze
		POWER ON	While power on, Initial lens Focus and Zoom position
	SPECIAL FUNCTION (2/3)	PRIORITY	Priority selectable, AGC first or SLOW SHUTTER first.
		MOTION DETECT	Motion detection is on or off
		H / V REVERSE	Mirror and flip
		DISPLAY MODE	HD video format: 720p25/30/50/60;1080p25/30;1080i/50/60 selectable SD video format: 4:3/16:9

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			Image aspect : Nor.(16:9) or Full(4:3)
		DIGITAL OUT	YUV422 Spec. setting
		CROSS LINE	Crosslink can be displayed with moving by V or H axis
		IRIS SPEED	Adjust IRIS speed
	SPECIAL FUNCTION (3/3)	FREEZE	Image freeze
		COLOR BAR	Color Bar can be displayed
		POSI / NEGA	Show positive image or negative
		OSD	Display on/off zoom ratio, motion status, title
		SERIAL COMMUNCATION	Set camera ID number, baud rate and Original or Pelco-D protocol
SIMPLE ITS MODE	MODE/SHUTTER/ PULES OFFSET	For shooting fast-moving objects	

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MG20S(x20 Zoom) AF HD camera

1. Press **ENTER** key for 1 seconds to display **MAIN MENU.**

2. Press **ENTER** key to display **SUB MENU** after selecting **MEMU** with **UP/DOWN/RIGHT/LEFT** key.

3. Select **RETURN** and press **ENTER** key to exit **SUB MENU**.

4. Select **EXIT** and press **ENTER** key to exit **MAIN MENU.**

5. Press **TELE** key to zoom up control. (If **OSD MENU** is not displayed , It can use **UP** key.)

6. Press **WIDE** key to zoom down control. (If **OSD MENU** is not displayed , It can use **DOWN** key.)

7. Press **NEAR** key to zoom near control. (If **OSD MENU** is not displayed , It can use **LEFT** key.)

8. Press **FAR** key to zoom far control. (If **OSD MENU** is not displayed , It can use **RIGHT** key.)

9. Set the **SD-Video** format for **NTSC / PAL** by turning on the power while pressing **UP** key together.

10. Set the **HD-Video** & Sensor format by turning on the power while pressing **RIGHT** key together.

Mode	sensor	HD-Video
1	30 fps	720p60, 1080p30, 720p30, 1080i60
2	25 fps	720p50, 1080p25, 720p25, 1080i50

11. Set the SD-Video output On/Off by turning on the power while pressing **DOWN** key together.

12. Set the HD-Video output On/Off by turning on the power while pressing **LEFT** key together.
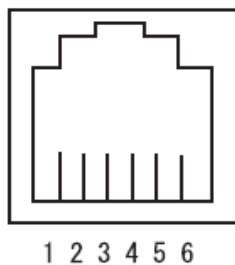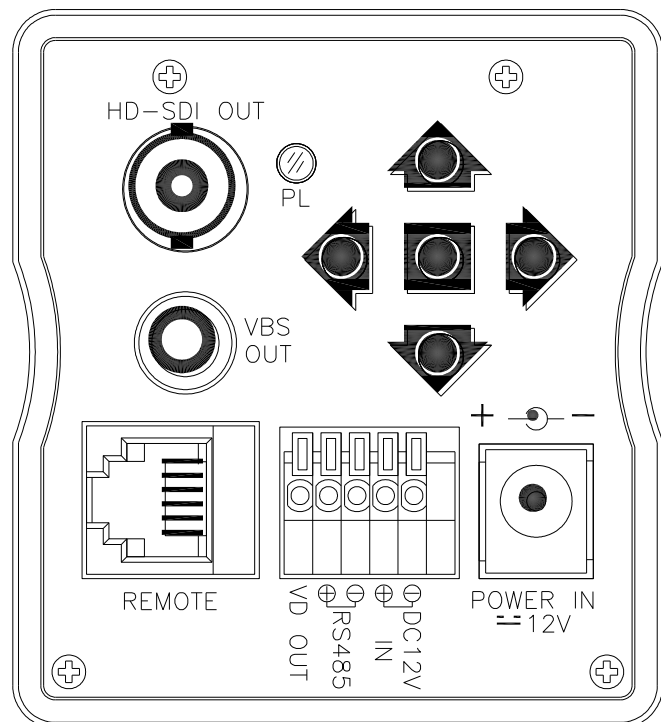
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MODEL NAME: 63MG20S
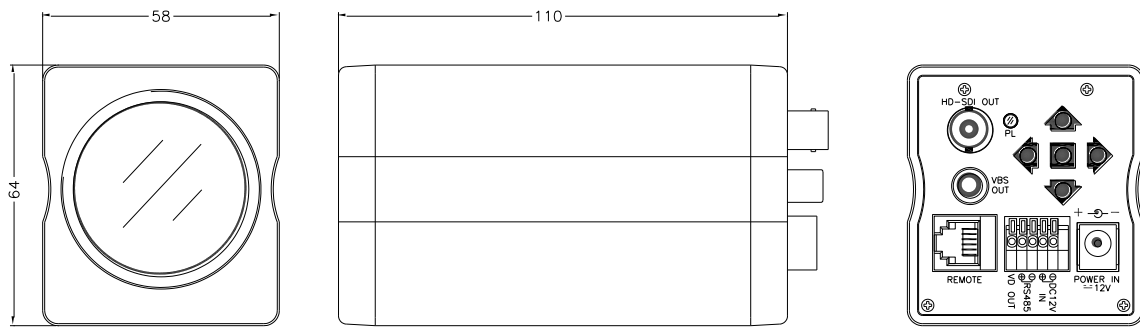
**Mount Hole
Depth Limited
8mm**
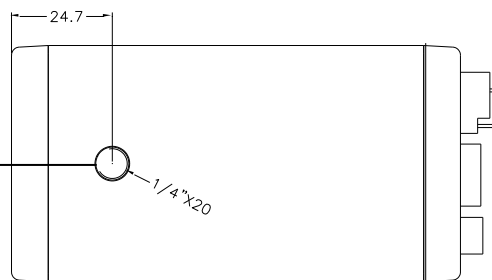
Remote connector

1	NC
2	+12V out
3	RS485+
4	RS485−
5	GND
6	NC

1 2 3 4 5 6

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