GCS216F-HSDI

Mega pixel-High resolution camera

1. Product overview

Globalcctvsec 720P SDI camera GCS216F-HSDI is featured by characteristics of high resolution, high frame rate and high image quality. It is especially suitable for applications such as intelligent transportation, security surveillance etc. and other application areas including machine vision, automatic detection, medical imaging, biological imaging, microscopic imaging as well as other industrial, medical, or scientific research fields.

2. Parameter list

Parameter list	
Imaging sensor	1/3-inch 9M033 CMOS sensor
Active imager size	1280(H) x 720(V)
Pixel size	3.75μm * 3.75μm
Video output	SDI
SNR	> 50dB
Low illumination level	0.3lux@F1.2
Max frame rate	60 fps
Exposure time	12.5us ~ 20ms
Exposure type	Rolling shutter
AGC control	high/medium/low
AWB	auto/indoor/outdoor/off
Supply voltage	12V DC,2A
Power consumption	≤ 5W
Optical interface	CS
Size/Weight	58*68*127(mm)/495g
Operating temperature	-20 ~ 70
Operating humidity	≤ 85%

No. 888 Xin Ling Road ,Waigaoqiao Free Trade Zone   ,Shanghai,China., 200131
Tel: 0086-21-50401231   Fax: 0086-21-50401003   EMail: juliezhang@globalcctvsec.com
Url: www.globalcctvsec.com

3. Machine size

(length unit: mm)

Figure 1

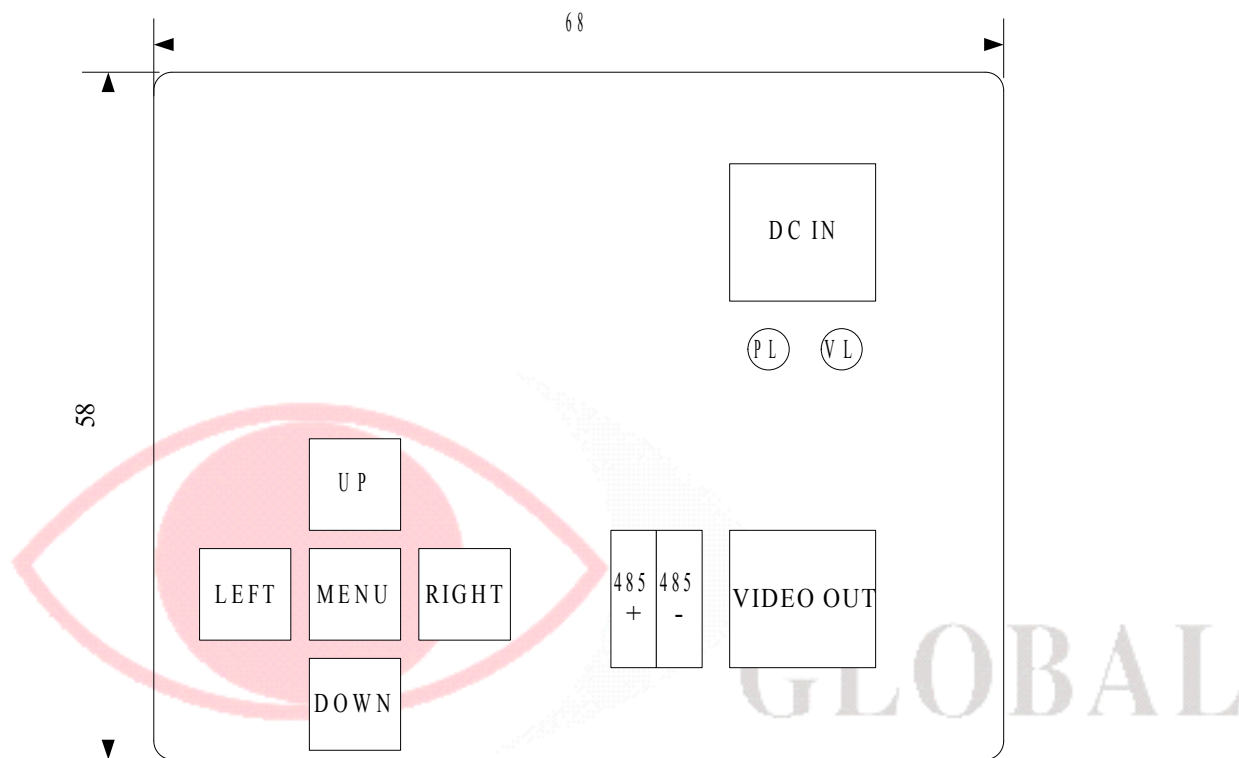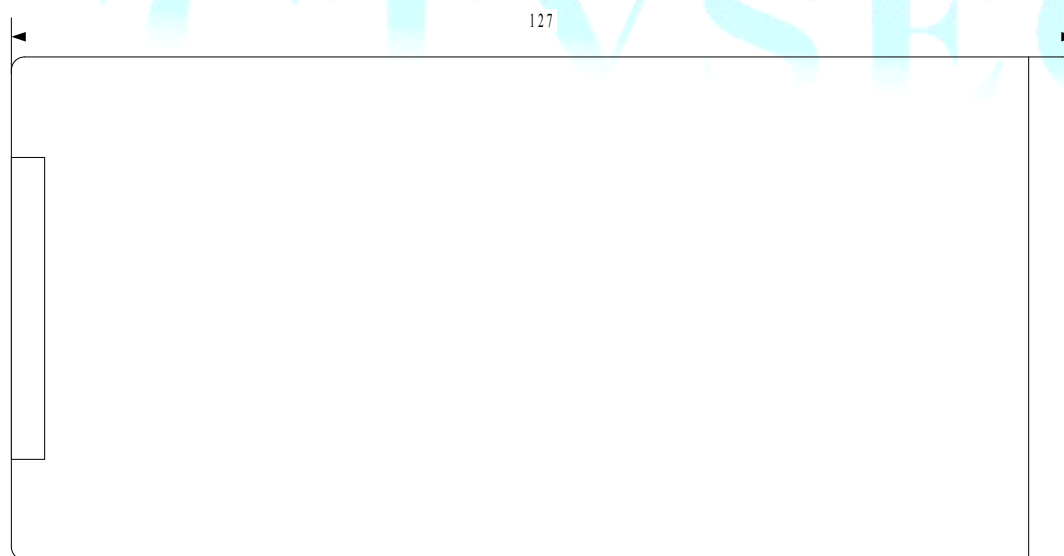
Figure 2

4. Installation instructions

Camera optical interface

Camera optical interface adopts standard CS type (CS Mount) interface. If C (C Mount) interface lens is be to applied, use the attached CS/C stepping ring.

Camera (see figure1) interface definition

Name	Definition	Introductions
UP	Move up	
LEFT	Move left	
MENU	Access SETUP menu	Press and hold to enter or exit the menu
RIGHT	Move right	
DOWN	Move down	
485+	RS485 connection positive	
485-	RS485 connection positive	
VIDEO OUT	Video output	SDI Video signal output
DC IN	DC12V input	
PL	Power status indicator	
VL	Video output indicator	

5. Menu introductions

Press and hold the MENU button to enter or exit main menu. Change the menu settings and exit the menu so as to save any menu setting changes. Press the MENU button to access submenu settings.

Press UP or DOWN keys to move up or down the chosen menu item.

Press the LEFT or RIGHT keys to change the value of the chosen menu item.

```
          MAIN

  LANGUAGE       < ENGLISH>
  VIDEO ...
  SHUTTER SPEED  < 1/50>
AGC              <LOW>
AWB              <AUTO>
  RESTORE FACTORY DEFAULTS
```

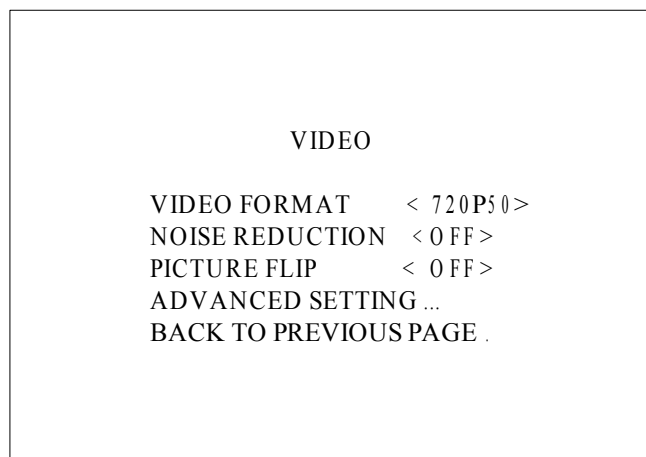LANGUAGE: Set the MENU language between ENGLISH or CHINESE

VIDEO: Press MENU button to access video settings submenu

SHUTTER SPEED: Set shutter speed from 1/50s to 1/4,000s

AGC: Set automatic gain control level between HIGH, MEDIUM or LOW level

AWB: Set automatic white balance mode between AUTOMATIC, INDOOR, OUTDOOR or OFF

RESTORE FACTORY DEFAULTS: Select and press MENU button to restore all settings into factory defaults.

```
                VIDEO

        VIDEO FORMAT      < 720P50 >
        NOISE REDUCTION   < OFF >
        PICTURE FLIP      < OFF >
        ADVANCED SETTING ...
        BACK TO PREVIOUS PAGE .
```
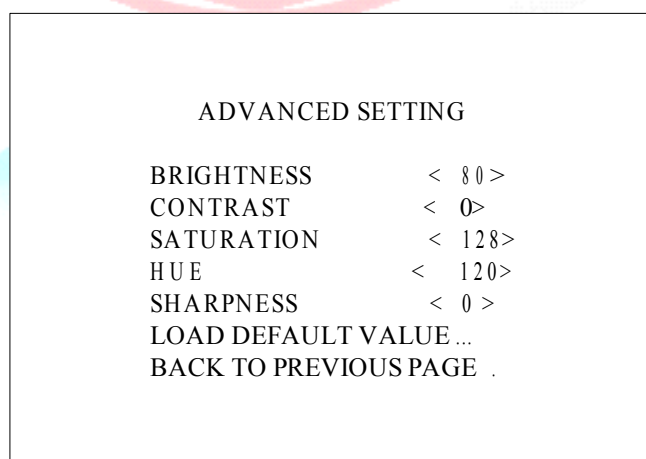
VIDEO FORMAT: Select video format between 720P/50FPS or 720P/60FPS

NOISE REDUCTION: Activate or deactivate digital noise reduction

PICTURE FLIP: Activate or deactivate picture flipping function

ADVNCED SETTING: Press MENU button to access advanced video setting submenu

BACK TO PREVIOUS PAGE: Return to the main menu

```
        ADVANCED SETTING

        BRIGHTNESS         < 80 >
        CONTRAST           < 0 >
        SATURATION         < 128 >
        HUE                < 120 >
        SHARPNESS          < 0 >
        LOAD DEFAULT VALUE ...
        BACK TO PREVIOUS PAGE .
```

BRIGHTNESS: Set image brightness from 0 (lowest) to 255 (highest). Default value is 80.

CONTRAST: Set image contrast from 0 (lowest) to 8 (highest). Default value is 0,

SATURATION: Set image saturation from 0 (lowest) to 255 (highest). Default value is 128.

HUE: Set image hue from 0 (lowest) to 255 (highest). Default value is 120.

SHARPNESS: Set image sharpness from 0 (lowest) to 16 (highest). Default value is 0.

LOAD DEFAULT VALUE: Restore brightness, contrast , saturation, hue and sharpness to default values.

BACK TO PREVIOUS PAGE: Return to the video menu

6. Attention

Mind the wiring definitions when connecting cables and avoid any possible damage to camera due to wiring errors.

Do not use corrosive or abrasives cleaning agent to clean the camera. Use dry soft cloth to clean the camera or transmitting cable should there be any dirt or spots. Provide that dirt or spots are serious, use neutral cleaner to wipe them off gently.

Do not use corrosive or abrasive cleaning agent to clean CCD or color filter. If necessary, use lens wiping paper or cotton sticks dipped with alcohol to wipe CCD or color filter carefully and gently.

Do not disassemble the camera. There is no user repairable or adjusting part inside. Maintenance is to be covered by the manufacturer.

Do not keep the camera face to strong light directly (such as sun) whenever the camera is on operation or not. It can damage the image sensor and cause unrecoverable faults to the camera.

Operation environment with excessive moisture can damage the camera. Cut off power to the camera and return it to manufacturer for maintenance if the camera is caught in rain or gets wet.

Do not use the camera if the operating temperature or humidity is out of the camera's required range.

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