

SIEMENS



**1/3" CMOS Ultra Wide
Dynamic Color Camera**

CCWC1345-LX

CCWC1345-MX

Configuration Manual

Fire Safety & Security Products

Siemens Building Technologies

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Dear Customer

By selecting this SIEMENS product, you have chosen a professional device that guarantees the highest possible quality and reliability. We would like to thank you very much for your confidence in our products and kindly ask you to read the following instructions carefully before installing and using the product, in order to take full advantage of all quality features included in this product line.

WARNING

To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture. It should be installed by a qualified service person and should conform to all local codes. Please connect the equipment to a 12 V DC or 24 V AC Class 2 power supply if the LP camera model is to be installed.

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1 General information

1.1 Work safety information

- Read these instructions carefully before connecting the camera in order to avoid damage caused by improper installation or use.
- Installation may be done only by authorized personnel according to the local safety regulations.
- Operate the camera only with the designated voltage.
- Follow the safety instructions for the camera.
- Never use the camera for purposes other than those designated.
- Repairs and adjustments to the camera may be done only by authorized personnel.
- If liquids or objects get into the housing, disconnect the camera from the power supply and have it checked by your authorized dealer before using it again. (Danger of electric shock!)
- This equipment has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This equipment may generate, uses and can radiate radio frequency energy and, if not installed and used according to instructions, may cause harmful interference with radio communications.
- Be aware that any modifications not explicitly approved in this manual may void your equipment warranty.
- The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital output device.

1.2 Electromagnetic compatibility (EMC)

This product has been designed for use in general-purpose CCTV applications in a residential, business or industrial environment. Please contact the supplier of this product if you intend to use it in medical, intrinsically safe installations or in an industrial EMC environment.

To ensure normal operation and to avoid EMC problems, the product must be installed according to the currently valid EMC installation guidelines.

To meet the CE norms, enclosed EMI-cores should be applied to the Y/C and power cable (please refer to chapter 7.1).

1.3 Manufacturer's declaration of conformity

This product complies with the requirements of the European Directives 89/336/EEC "Directive of Electromagnetic Compatibility" and 73/23/EEC "Low Voltage Directive". The EU declaration of conformity is available to the responsible agencies at:

Siemens Building Technologies
Fire & Security Products GmbH & Co. oHG
D-76181 Karlsruhe

European Directive 89/336/EEC „Electromagnetic Compatibility”

Compliance with the European Directive 89/336/EEC has been proven by testing according to the following standards:

Emitted interference:	EN 61000-6-3 EN 55022 Class B
Interference resistance:	EN 50130-4

European Directive 73/23/EEC „Low-Voltage Directive”

Compliance with the European Directive 73/23/EEC has been proven by testing according to the following standard:

Safety:	EN 60950-1
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2 General guidelines

- **Read instructions:**

All the safety and operating instructions should be read before the product is operated.
- **Retain instructions:**

The safety instructions and the instruction manual should be retained for future reference.
- **Heed warnings:**

All warnings on the product and in the instruction manual should be adhered to.
- **Follow instructions:**

All operating and use instructions should be followed.
- **Attachments:**

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- **Water and moisture:**

Do not use this video product near water, for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.
- **Accessories:**

Do not place this video product on an unstable cart, stand, tripod, bracket or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with the stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- **Ventilation:**

This video product should never be placed near or over a radiator or heat register.
- **Power sources:**

This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your product dealer.
- **Power-cord protection:**

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, screws and the point where they exit from the product.
- **Lightning:**

For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power supply and cable system. This will prevent damage to the video product due to lightning and power-line surges.
- **Overloading:**

Do not overload power supply and extension cords as this can result in a risk of fire or electrical shock.

- Object and liquid entry:
Never push objects of any kind into this video product through openings as they may touch voltage points or short-cut parts that could result in a fire or electrical shock. Never spill liquid of any kind on the video product.
- Servicing:
Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage requiring service:
Disconnect this video product from the power supply and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the video product.
 - c. If the video product has been exposed to rain or water.
 - d. If the video product does not operate normally by following the operating instructions in the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - e. If the video product has been dropped or the cabinet has been damaged.
 - f. When the video product exhibits a distinct change in performance this indicates a need for service.
- Replacement parts:
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock.
- Safety check:
Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.



CAUTION

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



NOTE

Tips and information.

2.1 Operation and storage

- Avoid filming very bright objects (such as lighting fixtures) for an extended period.
- Do not operate or store the unit in the following locations:
 - Extremely hot or cold places.
 - Close to sources of strong magnetic fields.
 - Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters.
 - In humid or excessively dusty places.
 - Where exposed to mechanical vibrations.
 - Close to fluorescent lamps or objects reflecting light.
 - Under unstable or flickering light sources.
- Do not attempt to service this unit yourself unless you are authorized to do so. Opening the camera may expose you to dangerous voltages or other hazards. Refer all servicing to qualified personnel only.

2.2 Cleaning

Do not touch the imaging surface of sensor. Use a soft cloth moistened with alcohol to clean the surface if it is touched accidentally.

2.3 Transportation

Use the original packing material or materials of equal quality.

2.4 CMOS characteristics

The following conditions may be observed when using a CMOS camera. These are inherent in the design and do not stem from any fault in the camera itself.

Vertical smear	This phenomenon occurs when viewing a very bright object.
Patterned noise	This is a fixed pattern, which may appear over the entire monitor screen when the camera is operated at a high temperature or in low luminance environment.
Jagged picture	When viewing stripes, straight lines, or similar patterns, the image on the screen may appear jagged.

3 Technical data

3.1 Dimensions

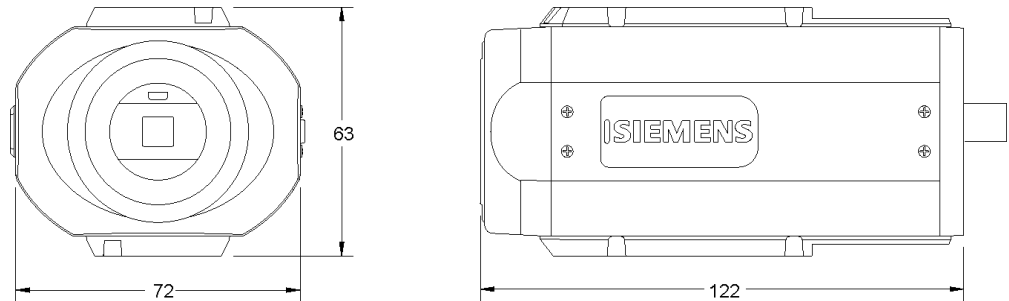


Fig. 1 Dimensions

3.2 Product specifications

Image area	5.04 mm x 3.78 mm
Pickup elements	720 (H) x 540 (V) pixels 1/3" WD CMOS, PIXIM* D2500
Scanning system	PAL: 2:1 interlace V: 50 Hz, H: 15,625 Hz NTSC: 2:1 interlace V: 59.94 Hz, H: 15,734 Hz
Sync system	Internal/ line lock selectable (AC only)
Video output	BNC composite, Y/C output, Twisted pair
Lens mount	CS mount
Resolution	> 500 TV lines (horizontal) @ Y/C output
Gamma correction	0.45, 1.0 selectable
Minimum illumination	0.5 lux @F=1.4 (AGC 30 dB , 50 IRE video output)
Dynanic range	120 dB
S/N ratio	> 50 dB
Slow shutter	2X, 4X, 8X, 16X
Gain control	Selectable 0, 6, 12, 18, 24 up to 30 dB
Backlight compensation	6 area selectable: Center 1, Center 2, Up Half, Low Half, Middle Low, Middle High
Privacy zone	1 blocks
Motion detect	Motion alarm, level control: selectable 0...255
D/N mode	AUTO, COLOR, MONO
D/N level	HIGH, MID, LOW
D/N DLY	0, 5, 10, 15, 20 selectable
Digital zoom	4 x (max.)
Aperture correction	HIGH, MID, LOW
White balance	AUTO: Color temperature ranges are depending on preset mode. Manual: 40 steps by push button for R and B

Iris control	DC iris for galvano lens
Camera text	24 characters
OSD control	5 control keys on the side-panel of camera
Default settings	Preset: IN Door (2900 °K – 6500 °K), OUT Door (2900 °K – 9500 °K)
Default settings	Default setting restored by pushing the DEFAULT button
Remote control	RS-485: Siemens-B/ -S/ -U protocol, MOLYNX-D
Twisted Pair Video	Twisted Pair Video out
Alarm IN	1CH
Alarm OUT	NC, BW, OUT selectable
Tripod thread	A (1/4); ¼ inch on bottom and top
Power source	CCWC1345-LX: DC 12 V ±10% regulated power supply AC 24 V ±10%, 50/60 Hz CCWC1345-MX: AC 100 - 240 V ±10%, 50/60 Hz
Power consumption	CCWC1345-LX: 4 VA (max.) CCWC1345-MX: 4.5 VA (max.)
Ambient conditions	-10 - +55 °C / 95% max relative humidity, no condensation
Dimensions in mm	122 (L) x 72 (W) x 63 (H)
Weight	550 g (max.)

*) PIXIM and Digital Pixel System are registered trademarks of PIXIM, Inc. All rights reserved.

4 Ordering data

Designation	Order No.	Approx. Weight (kg)
CCWC1345-LX 1/3" CMOS Ultra Wide Dynamic Color Camera, 500 TVL, PAL/NTSC, 12 V DC / 24 V AC	2GF1183-8HA	0.45
CCWC1345-MX 1/3" CMOS Ultra Wide Dynamic Color Camera, 500 TVL, PASL/NTSC, 90 - 260 V AC	2GF1183-8HB	0.55
Accessories, not included in delivery!		
PSU230-12 Power supply unit for 12 V DC cameras	2GF1800-8BE	0.12
CAPA2410-P Power supply unit for 24 V AC cameras	2GF1800-8BJ	0.30

4.1 Package contents

- CMOS camera
- Hexagonal wrench
- 4-pins IRIS plug
- CS-C lens mount adaptor
- EMI core (-LX: 2 pcs, -MX: 2 pcs)
- CD including remote control software and detailed Configuration Manual
- Quick Installation Manual

5 Camera part and connector definition

5.1 Camera part definition

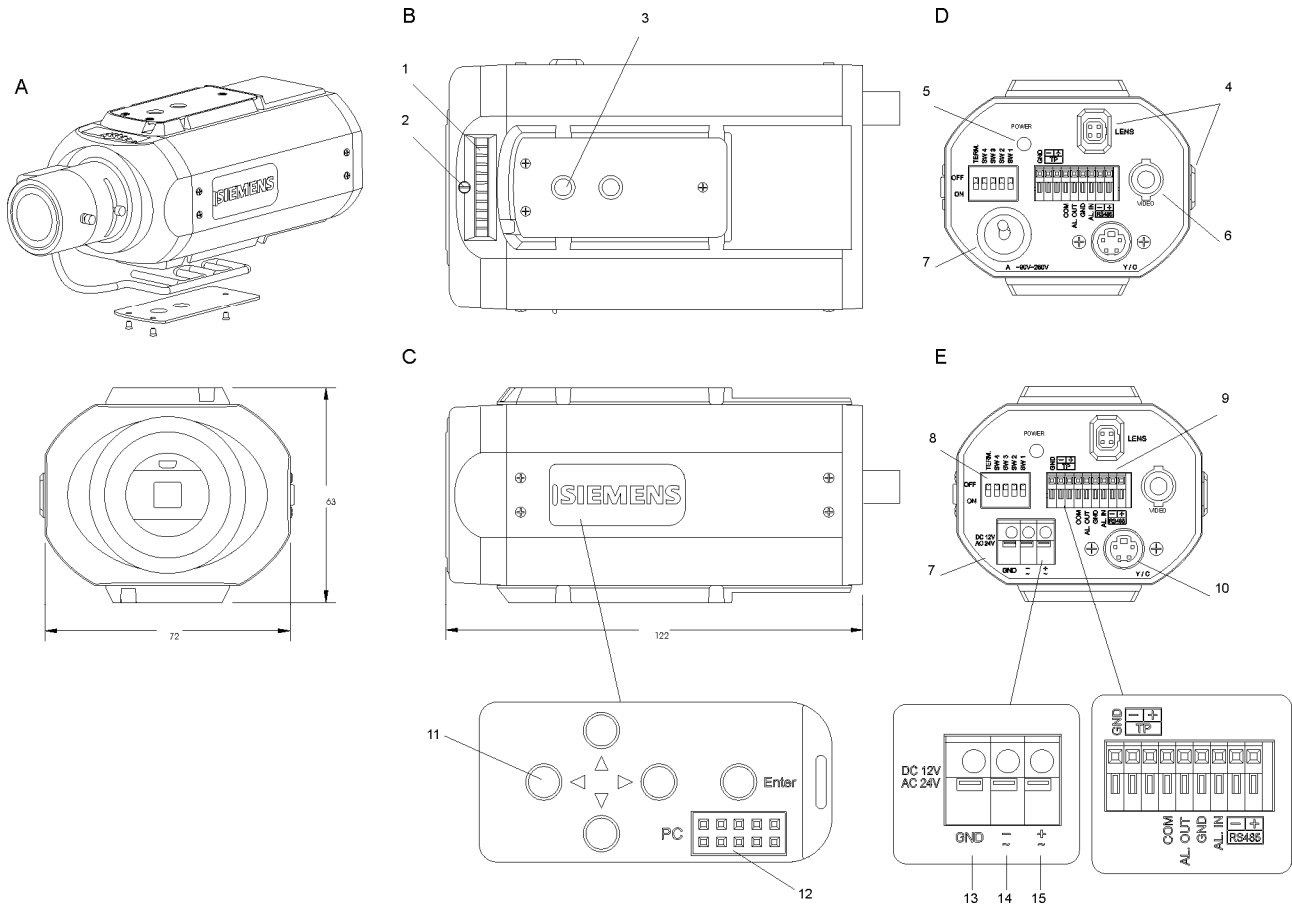
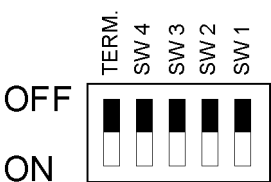


Fig. 2 Camera part definition

1	Back focus adjust ring
2	Back focus lock screw
3	Tripod mount hole
4	IRIS connector
5	Power indicator
6	Video output
7	-MX: Power cord, -LX: Power terminal
8	Control switch for Video Twisted Pair and RS485
9	External control terminal
10	Y/C terminal
11	OSD control button
12	PC connection port, for factory test only
13	Shield / GND
14	DC12 V- or AC 24 V
15	DC12 V+ or AC 24 V


5.2 Connector pin definition

5.2.1 Control switch for twisted pair video out

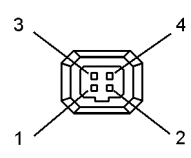
	SW2	SW3	Output voltage without accentuation (no load condition)
	OFF	OFF	2.6 Vpp
	OFF	ON	2.8 Vpp
	ON	ON	3.0 Vpp
	SW1	SW4	Frequency-dependent accentuation
	OFF	OFF	No frequency-dependent accentuation
	OFF	ON	Frequency-dependent accentuation (approx. 6 dB with 5 MHz)
	ON	OFF	Frequency-dependent accentuation (approx. 6 dB with 5 MHz)
	ON	ON	Frequency-dependent accentuation (approx. 12 dB with 5 MHz)

Condition on delivery: Output voltage 2.6 Vpp without accentuation

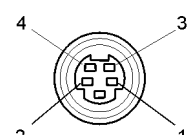
5.2.2 RS485 termination

	TERM.	RS485 terminal resistor
	OFF	No terminal resistor
	ON	With terminal resistor 100 Ohm

5.2.3 IRIS pin assignment

	DC Lens
	1. Damp -
	2. Damp +
	3. Drive +
	4. Drive -

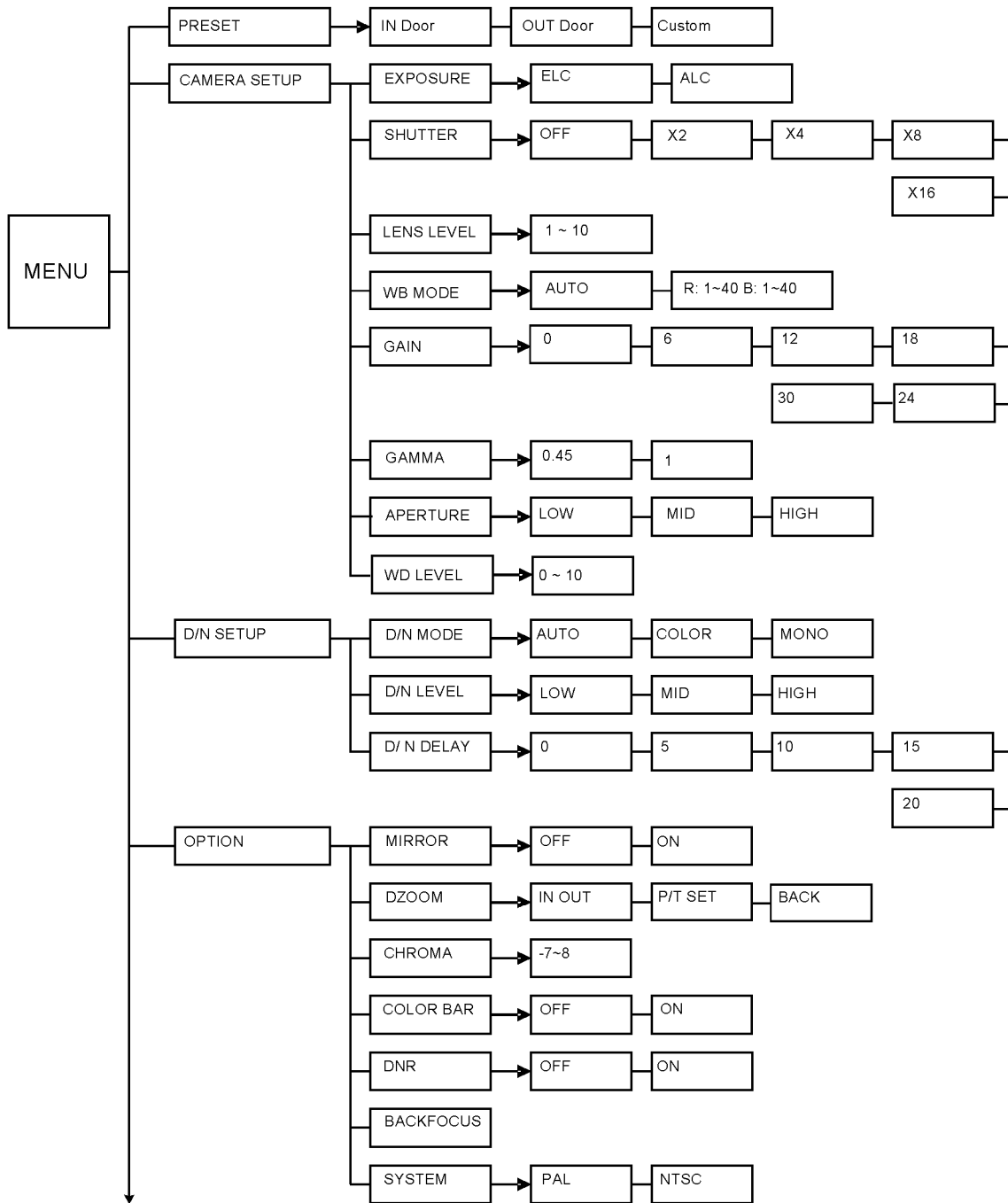
5.2.4 Y / C terminal

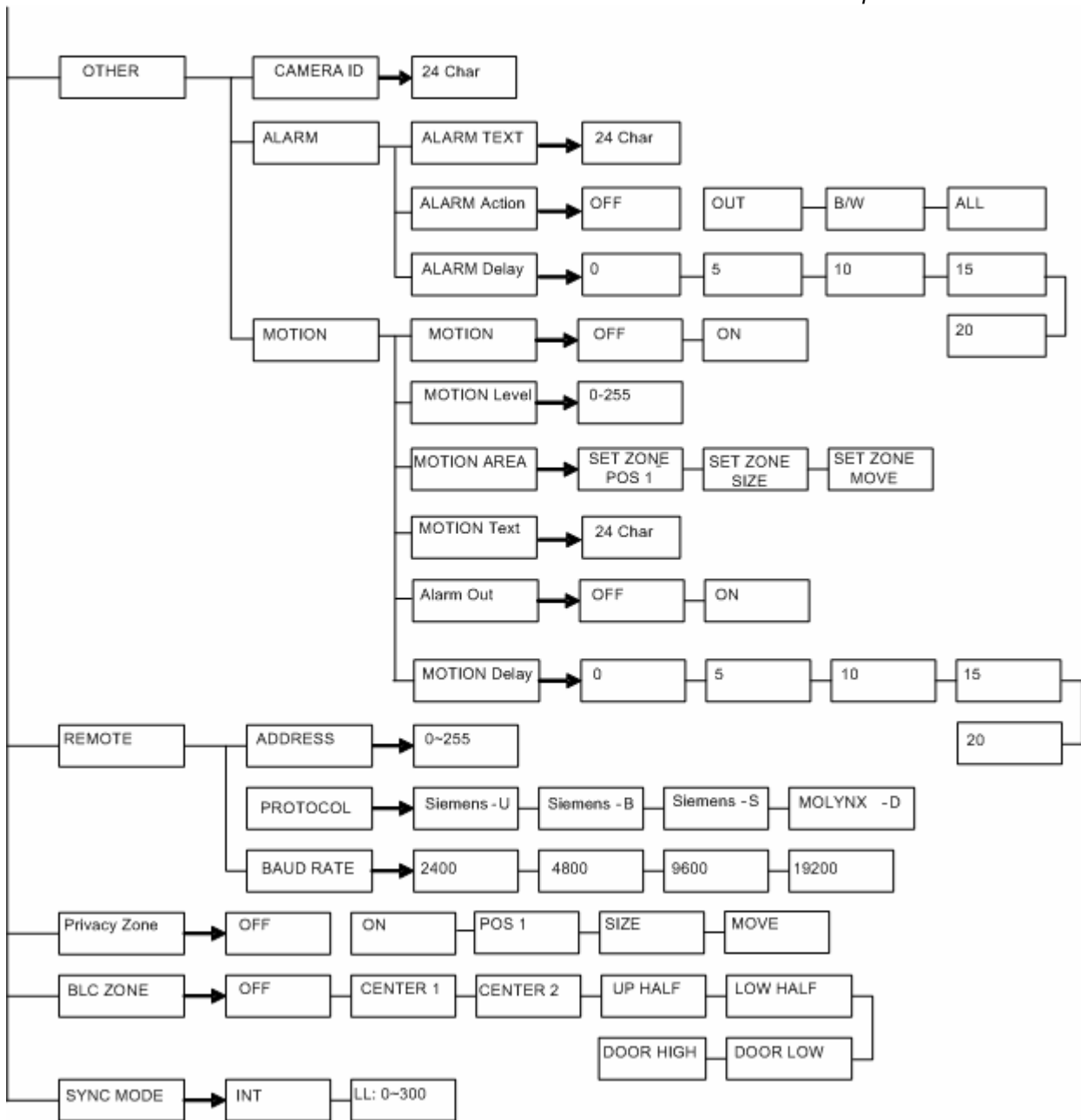
	1	GND
	2	GND
	3	Y (Luminance, 1 Vpp, 75 Ohm)
	4	C (Chrominance, 0,3 Vpp, burst, 75 Ohm)

5.2.5 External control terminal

Pin	Pin Define	Description
1	Data +	RS-485 signal
2	Data -	
3	Alarm IN	When Alarm IN & GND be shorted, the alarm function will be active (please set ALARM FUNC to ON in OSD menu).
4	GND	
5	Alarm out	Alarm out
6	COM	
7	Twist pair +	Twisted Pair Video output signal.
8	Twist pair -	
9	GND	GND

5.3 OSD setting hierarchy

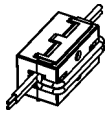
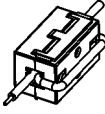
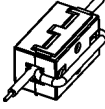




6 Install the camera

6.1 Installation

1. Connect BNC cable to video output, please refer to chapter 5.1 Camera part definition.
2. Connect power source to power terminal.
3. To reduce radiation sufficiently, please wind one turn around the core, see figure below.

Location	Core illustration	Camera type
Power cable		LX
Power cable		MX
Y/C cable		LX / MX



CAUTION

If using a DC supply, make sure the polarity is correct. Incorrect connection may cause malfunction and / or damage to the camera.

4. Adjust backfocus: The backfocus is adjusted in the factory for a CS mount lens as shipped, if re-adjust is necessary, please unlock screw. Enter **Back Focus Format** in OSD (please refer to chapter 6.2.4.8), then rotate backfocus wheel till a sharp image appears. Lock the screw tightly.

6.1.1 Using BNC composite video output

1. Connect BNC cable to video output, please refer to chapter 5.1 Camera part definition.
2. Make sure that a proper BNC 75 Ohm cable is used.
3. Switch on 75 Ohm termination in video receive equipment such as Monitor, matrix or equivalent

6.1.2 Using twisted pair video output

1. Connect twisted pair cable to TP-Output of camera, please refer to chapter 5.1 Camera part definition
2. Connect suitable twisted pair receiver device (i.e. TP-RXMOD2)
3. Setup TP transmitter using DIP-switches, please refer to chapter 5.2.1.
4. Adjust twisted pair receiver to get best quality video-output, please refer to the instruction manual of used twisted pair receiver

6.2 Function settings

Press the ENTER of the OSD control button, the menu will appear on the display and will disappear after 30 seconds if no any action. The shaded setting area means an item selected and keeps blinking.

6.2.1 PRESET

Select PRESET function
IN Door (2500 °K – 6500 °K),
OUT Door (2500 °K – 9500 °K), or
custom.

This camera provides 2 kinds preset environment settings. Which are IN Door and OUT Door, User can do fast setting in these 2 kinds environment parameter. OR, User can set environment parameter by self in custom mode. Using UP/DOWN key adjust cursor to PRESET as shown in the figure. Press ENTER key to enter modify mode, Using UP/DOWN key to select mode after selected and press ENTER key to leave modify mode.

```

MAIN MANU
PRESET INROOM
<CAMERA SETUP>
<D/N SETUP>
<OPTION>
<OTHER SETUP>
<REMOTE>
<PRIVACY ZONE>
BLC ZONE OFF
SYNC MODE INT
EXIT CANCEL DEFAULT
  
```

6.2.2 CAMERA SETUP

Enter CAMERA SETUP submenu as shown in the figure. Using UP/DOWN key adjusts cursor to the item which wants to modify. Press ENTER key to enter modify status , Using UP/DOWN key to select Mode. After selected and then press ENTER key to leave modify Mode.

```

CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
  
```

6.2.2.1 EXPOSURE

Setting ALC for Auto IRIS lens control or ELC for auto electronic shutter when using manual IRIS lens. Move the cursor to the position and push ENTER.

6.2.2.2 SHUTTER

Setting of slow electronic shutter (OFF to X 16). Move the cursor to the position as shown in the figure. Using the UP/ DOWN button, choose the slow shutter from OFF to X16.

```

CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
  
```

6.2.2.3 LENS LEVEL

Setting the lens level (exposure level). Move the cursor to the position as shown in the figure. Push ENTER and use the UP/ DOWN button to select 1 - 10.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.2.4 WB MODE

Selection and setting of the white balance system (AUTO and manual mode). Move the cursor to the position as shown in the figure. Using UP/ DOWN button to choose ATW or manual mode.

- AUTO
TTL auto trace white balance algorithm is designed to implement a perfect color reproduction. Color temperature ranges are depending on preset mode.
- Manual mode
Press the ENTER button to enter manual mode. To obtain correct manual white balance adjust the R and B (red& blue) values by press UP, DOWN button. Press LEFT, RIGHT button to exit move cursor between R&B, and press ENTER button to exit.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.2.5 GAIN

Adjust max. GAIN: 0 – 30 dB. Move the cursor to the position as shown in figure. Using UP/ DOWN button, choose gain value from 0 dB to 30 dB.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.2.6 GAMMA

0.45 or 1.0 can be selected

Move the cursor to the position as shown in the figure to set GAMMA value.

Generally, the default value 0.45 is used for CCTV monitor. For image processing purpose 1.0 can be selected.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.2.7 APERTURE

Selection of picture sharpness. (LOW, MID, HIGH)

Move the cursor to the position as shown in the figure.

Use UP/ DOWN button, to choose HIGH, MID or LOW.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.2.8 WD-LEVEL

Selection of the WD-threshold level. This setting increases/decreases the overall video brightness.

Move the cursor to the position as shown in the figure.

Use UP/DOWN button to choose from 0 to 10.

```
CAMERA SETUP
EXPOSURE ALC
SHUTTER OFF
LENS LEVEL 5
WB MODE AUTO
GAIN 24
GAMMA 0.45
APERTURE MID
WD LEVEL 5
BACK
```

6.2.3 D/N SETUP

Enter D/N SETUP submenu as shown in the figure.

Using UP/DOWN key to adjust cursor to the item which wants to modify.

Press ENTER key to enter modify status.

Using UP/DOWN key to select Mode.

After selected and then press ENTER key to leave modify Mode.

```
D/N SETUP
D/N MODE AUTO
D/N LEVEL MID
D/N DELAY 5
BACK
```

```
MAIN MANU
PRESET INROOM
<CAMERA SETUP>
<D/N SETUP>
<OPTION>
<OTHER SETUP>
<REMOTE>
<PRIVACY ZONE>
BLC ZONE OFF
SYNC MODE INT
EXIT CANCEL DEFAULT
```

6.2.3.1 D/N MODE

Select Day/Night function automatically, color or mono. Move the cursor to the position as shown in the figure. Use the UP/ DOWN button to select AUTO, MONO or COLOR mode.

- AUTO: When set to this mode, the camera will change to COLOR mode or B/W mode automatically depending on a subject's brightness.
- MONO: When set to this mode, the camera will remain in monochrome mode always.
- COLOR: When set to this mode, the camera will remain in COLOR always.

```
D/N SETUP
D/N MODE AUTO
D/N LEVEL MID
D/N DELAY 5
BACK
```

6.2.3.2 D/N LEVEL

Select filter switchover point High, Low or Middle.

Set up a switchover point from COLOR mode to B/W mode. Move the cursor to the position as shown in the figure. Use the UP/DOWN button to select HIGH, LOW or MID. The level only affects when the D/N mode set as AUTO.

- A. LOW: The switchover point of gain from COLOR into B/W mode is 21 dB, and back to COLOR mode point is 18 dB.
- B. MID: The switchover point of gain from COLOR into B/W mode is 22 dB, and back to COLOR mode point is 18 dB.
- C. HIGH: The switchover point of gain from COLOR into B/W mode is 23 dB, and back to COLOR mode point is 18 dB.

```
D/N SETUP
D/N MODE AUTO
D/N LEVEL MID
D/N DELAY 5
BACK
```

6.2.3.3 D/N DELAY

Setting DELAY time for D/ N function.

Move the cursor to the position as shown in the figure.

Use the UP/ DOWN button to select 0, 5, 10, 15 or 20 sec for delay of into D/N mode timing.

This function only affects when D/N Mode to be set as AUTO.

```
D/N SETUP
D/N MODE AUTO
D/N LEVEL MID
D/N DELAY 5
BACK
```

6.2.4 OPTION

Enter OPTION submenu as shown in the figure. Using UP/DOWN Key to adjust cursor to the function which wants to modify.

Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.1 Mirror

Mirror function. Move the cursor to the position as shown in the figure.

Press Enter and use UP/DOWN button to choose ON or OFF.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.2 DZOOM

Enter DZOOM submenu as shown in the figure. Using UP/DOWN Key to adjust cursor to the function which wants to modify.

Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.3 DZOOM IN OUT

This function is for setting the electronic zoom factor. It can magnify 4 times as original. The zoom value can be selected in 96 steps. Move the cursor to the position as shown in the figure. Press Enter and use UP/DOWN button to choose the digital zoom value

```
DZOOM IN OUT
```

6.2.4.4 DZOOM P/T SET

This function is only operational when digital zoom is selected.

Move the cursor to the position as shown in the figure.

Press Enter and use UP/DOWN/LEFT/RIGHT to select visible area .

```
DZOOM > < ^ v P/T SET
```

6.2.4.5 CHROMA

Setting the video chroma value.

Move the cursor to the position as shown in the figure.

Use UP/DOWN button to choose from -7 to 8.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.6 COLOR BAR

This function is present for test.
Move the cursor to the position as shown in the figure.
Press Enter and use UP/DOWN button to choose ON or OFF. The color bar as shown in the figure.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.7 DNR

This function is for digital noise reduce. Move the cursor to the position as shown in the figure.
Press Enter and use UP/DOWN button to choose ON or OFF.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.8 BACKFOCUS

This function is for perform back focus adjust. It will force the iris of the AI lens to open fully and set to ELC mode for easy back focus adjustment. Move the cursor to the position as shown in the figure.
Press Enter and use UP/DOWN button to choose ON or OFF.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.4.9 SYSTEM

Move the cursor to the position as shown in the figure.
Press Enter Key and use UP/DOWN button to choose NTSC or PAL system.

```
OPTION
MIRROR OFF
<DZOOM>
CHROMA 3
COLOR BAR OFF
DNR OFF
<BACKFOCUS>
SYSTEM PAL
BACK
```

6.2.5 OTHER SETUP

Enter OTHER SETUP submenu as shown in the figure.
Using UP/DOWN Key to adjust cursor to the function which wants to modify.
Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
OTHER SETUP
CAMERA ID
-----
<ALARM>
<MOTION>
BACK
```


6.2.5.1 CAMERA ID

Select the CAMERA ID position, press ENTER into modify mode as shown in the figure.

Right button choose position and use UP/DOWN button choose text (0 - 9, A - Z) the max 24 characters.

```
OTHER SETUP
CAMERA ID
-----
<ALARM>
<MOTION>
BACK
```

6.2.5.2 ALARM

Enter ALARM submenu as shown in the figure. Using UP/DOWN Key to adjust cursor to the function which wants to modify.

Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
OTHER SETUP
CAMERA ID
-----
<ALARM>
<MOTION>
BACK
```

6.2.5.3 ALARM TEXT

Select the ALARM TEXT position, press ENTER into modify mode as shown in the figure. Using Left/Right button choose position and use UP/DOWN button choose text (0 - 9, A - Z) the max 24 characters.

```
ALARM TEXT
-----
ALARM ACTION OUT
ALARM DELAY 0
BACK
```

6.2.5.4 ALARM ACTION

Use the UP/DOWN button to select OFF, OUT, B/W, ALL (OUT & B/W) as shown in the figure.

```
ALARM TEXT
-----
ALARM ACTION OUT
ALARM DELAY 0
BACK
```

6.2.5.5 ALARM DELAY

Use the UP/DOWN button to select 0, 5, 10, 15, 20 sec. For delay of ALARM operate timing as shown in the figure. Alarm will be reset automatically after selected time.

```
ALARM TEXT
-----
ALARM ACTION OUT
ALARM DELAY 0
BACK
```

6.2.5.6 MOTION

Enter MOTION submenu as shown in the figure.
Using UP/DOWN Key to adjust cursor to the function which wants to modify.
Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
OTHER SETUP  
CAMERA ID  
-----  
<ALARM>  
<MOTION>  
BACK
```

When MOTION set ON and image has bigger Change. It will trigger alarm.
Enter MOTION item as shown in the figure.
Press ENTER key to enter Modify status and then using UP/DOWN key to Select Mode ON OR OFF after selected and then press Enter key to Leave modify status.

```
MOTION OFF  
MOTION LEVEL LOW  
<MOTION AREA>  
MOTION TEXT  
-----  
ALARM OUT OFF  
MOTION DELAY 5  
BACK
```

6.2.5.7 MOTION LEVEL

Setting the motion detect sensitivity. Use the UP/DOWN keys to set the sensitivity in the range of 0 to 255. The value "0" corresponds to the highest sensitivity.

```
MOTION OFF  
MOTION LEVEL 15  
<MOTION AREA>  
MOTION TEXT  
-----  
ALARM OUT OFF  
MOTION DELAY 5  
BACK
```

6.2.5.8 MOTION AREA

Enter MOTION AREA submenu as shown in the figure.
Using UP/DOWN Key to adjust cursor to the function which wants to modify.
Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
MOTION OFF  
MOTION LEVEL LOW  
<MOTION AREA>  
MOTION TEXT  
-----  
ALARM OUT OFF  
MOTION DELAY 5  
BACK
```

6.2.5.9 SET ZONE POSI

Setting the alarm zone position.

```
SET ZONE > < ^ v POSI
```

6.2.5.10 SET ZONE SIZE

Changing the alarm zone size.

```
SET ZONE > < ^ v SIZE
```

6.2.5.11 SET ZONE MOVE

Moving the alarm zone position.

```
SET ZONE > < ^ v MOVE
```

6.2.5.12 MOTION TEXT

Select the Motion TEXT position, press ENTER into modify mode as shown in the figure. Using Left/Right button choose position and use UP/DOWN button choose text (0 - 9, A - Z) the max 24 characters.

```
MOTION OFF
MOTION LEVEL LOW
<MOTION AREA>
MOTION TEXT
-----
ALARM OUT OFF
MOTION DELAY 5
BACK
```

6.2.5.13 ALARM OUT

Use the UP/DOWN button to select 0, 5, 10, 15, 20 sec. For delay of ALARM operate timing as shown in the figure.

```
MOTION OFF
MOTION LEVEL LOW
<MOTION AREA>
MOTION TEXT
-----
ALARM OUT OFF
MOTION DELAY 5
BACK
```

6.2.5.14 MOTION DELAY

Use the UP/DOWN button to select 0, 5, 10, 15, 20 sec. For delay of Motion ALARM operate timing as shown in the figure. Alarm will be re-set automatically after selected time

```
MOTION OFF
MOTION LEVEL LOW
<MOTION AREA>
MOTION TEXT
-----
ALARM OUT OFF
MOTION DELAY 5
BACK
```

6.2.6 REMOTE

Enter REMOTE submenu as shown in the figure. Using UP/DOWN Key to adjust cursor to the function which wants to Modify.

Press ENTER key to enter Modify status and then using UP/DOWN key to select Mode after selected and then press Enter key to leave modify status.

```
REMOTE
ADDRESS 1
PROTOCOL SIEMENS-B
BAUD RATE 4800
BACK DEFAULT
```

6.2.6.1 ADDRESS

Setup camera address volume 0 – 255.

6.2.6.2 PROTOCOL

Protocol include Siemens-U, Siemens-B, Siemens-S and MOLYNX-D.

6.2.6.3 BAUD RATE

Baud Rate: 2400, 4800, 9600, 19200.

6.2.7 PRIVACY ZONE

Move the cursor to the position as shown in the figure.

Press ENTER to turn on the privacy zone mode, than use UP/DOWN and Left/Right button to setting zone position, when ok press ENTER and use UP/DOWN and Left/Right button to setting zone size and press ENTER to leave this function.

```
MAIN MANU
PRESET INROOM
<CAMERA SETUP>
<D/N SETUP>
<OPTION>
<OTHER SETUP>
<REMOTE>
<PRIVACY ZONE>
BLC ZONE OFF
SYNC MODE INT
EXIT CANCEL DEFAULT
```

6.2.8 BLC ZONE

Selection of backlight mode.

Move the cursor to the position as shown in the figure. Push Enter and using UP / DOWN button to choose OFF, CENTER 1, CENTER 2, UP Half, LOW half, Door Low or Door High.

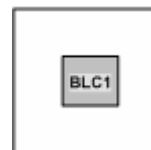
(The BLC area will not display on screen.)

A. OFF: The BLC function is off.

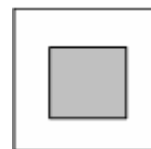
```

MAIN MANU
PRESET INROOM
<CAMERA SETUP>
<D/N SETUP>
<OPTION>
<OTHER SETUP>
<REMOTE>
<PRIVACY ZONE>
BLC ZONE OFF
SYNC MODE INT
EXIT CANCEL DEFAULT
    
```

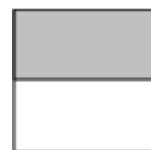
B. CENTER 1: Backlight compensation window is like.



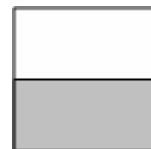
C. CENTER 2: Backlight compensation window is like.



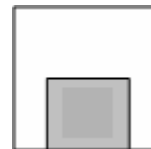
D. UP Half: Backlight compensation window is like .



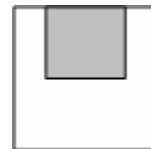
E. LOW half: Backlight compensation window is like.



F: Door Low: Backlight compensation window is like.



G: Door High: Backlight compensation window is like .



6.2.9 SYNC MODE

Move the cursor to the position as shown in the figure.

Push Enter and using UP / DOWN button to choose INT or LL. This function only works on AC power.

A. INT; The camera is in the internal SYNC mode.

B. LL: The camera is in the line lock mode, you can adjust the phase angle from 0 - 300 deg according. The default is 300 deg.

```
MAIN MANU
PRESET INROOM
<CAMERA SETUP>
<D/N SETUP>
<OPTION>
<OTHER SETUP>
<REMOTE>
<PRIVACY ZONE>
BLC ZONE OFF
SYNC MODE INT
EXIT CANCEL DEFAULT
```

6.2.10 BACK

Selection of next page and last page.

6.2.11 EXIT

Save all setting and exit.

6.2.12 CANCEL

Reset back to original settings.

6.2.13 DEFAULT

Recall factory settings.

7 Maintenance

Defective modules should be sent to the nearest Siemens office to be forwarded to the service centre.

8 Disposal



All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health.

It is a precondition for reuse and recycling of used electrical and electronic equipment.

For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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