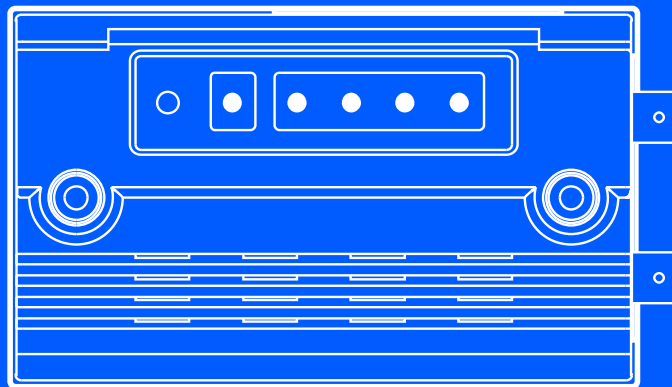




duoCon™ OSD Camera Controller

USER MANUAL

LOC-100C



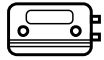
CAUTION

- Never install the unit with power supplied.
 - Installation with power supplied could result in electrical shock.
- Always handle the connecting cords properly.
 - Never damage or modify the connecting cords.
 - Never pull on the connecting cord, expose them to extreme heat and/or place heavy objects on top of them.
 - Failure to follow these warnings could result in fire, electrical shock or other damage or injury.
- Never mount in areas exposed to direct sunlight.
 - Direct sunlight can also discolor the unit and cause other damage.
- Never disassemble or attempt to repair or modify the unit by yourself.
 - Disassembly by untrained personnel could result in serious electrical shock, fire and/or malfunction.
- Never use in locations where combustible materials are used.
 - The unit should never be used where combustible materials, such as gases, is being used. Fire, explosion or other serious accidents could occur.
- Never touch electrical connections with wet hands.
 - Touching electrical connections with wet hands could result in serious electrical shock.
- Never expose the unit to water.
 - If the unit becomes wet, turn off the power and unplug it immediately.
- Never place the unit in extremes of high or low temperatures.
 - Extreme temperatures will damage the unit.
 - Always use within an operating range of -10°C to 50°C , 14°F to 120°F
- Always use the designated power supply.
 - Failure to use the proper power supply could result in fire, electrical shock, serious injury and/or damage.
 - Always use the designated power supply.
- Never expose the unit to impact.
 - Strong impact may seriously damage the unit.
- Never place the unit near the magnetic

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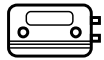
1.Features



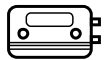
1CH Remote Translator for “duoCon™” Camera



OSD Control by the Buttons or RS-485 communication (Keyboard)



Zoom and Focus Control by the Buttons in using AF Zoom Camera



The operation distance according to the thickness of coaxial.

RG59 Coaxial Cable: up to 1000ft (300m),

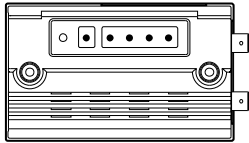

RG 11 or RG 6: up to 2000ft (600m)

(• Available Products: LHC-540NOC, LHC-530NZOC, LHC-523NZOC)

⊙ duoCon™ is LUXAR™ Duplex Communication, the signal of video and data can be transited via coaxial at once.

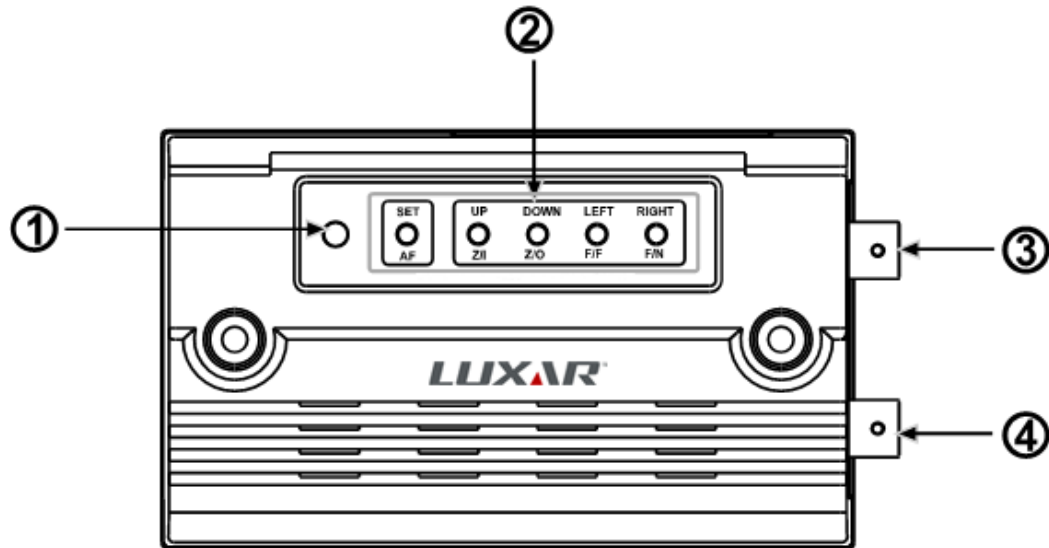
⊙ duoCon™ can check the status of OSD data and change the OSD data as user needs.

2. Components

1)	LOC-100C	-----	
2)	MANUAL	-----	

3. Names and Functions of Parts

1). TOP



① Power LED

- The Green Led 'ON' in 'Power ON' mode and the Red LED 'OFF' in 'duoCon™ Transmission' mode.

② Key Buttons

- UP (TELE button): To move the arrow indicator to up
 - To close in on a far object. (ZOOM IN)
- DOWN (WIDE button): To move the arrow indicator to down
 - To widen the view. (ZOOM OUT)
- SET (Auto Focus button): To access the main setup menu.
 - Auto focus is worked if pressing SET key long
- LEFT (F-NEAR button): To move the arrow indicator to left
 - To see a far object clearly
- RIGHT (F-FAR button): To move the arrow indicator to right
 - To see a near object clearly

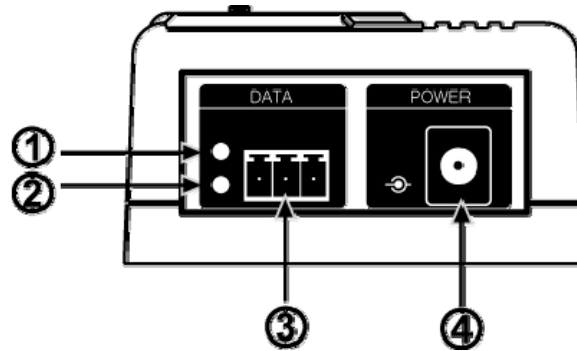
③ Video Output Jack

- Connect Video Output Jack to Video Input Jack of a monitor.

④ Video Input Jack

- Connect Video Input Jack to Video Output Jack of a camera.

2). LEFT



① RX LED

- RX led is off in the receiving status of RS-485 data.

② TX LED

- TX led is off in the transmission status of RS-485 data.

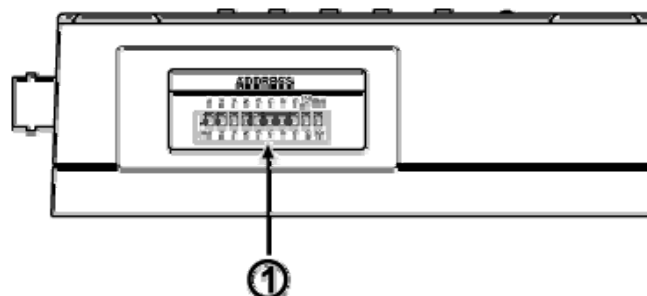
③ RS-485 Terminal

- RS-485 cables are connected through the terminal (Using In the connection with Keyboard)

④ Power Input Terminal

- Use higher than DC12V ($\pm 10\%$)/300mA Power adaptor.

3).BACK

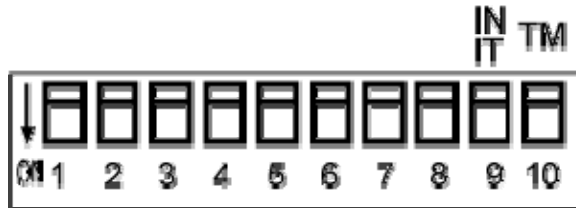


① ADDRESS SWITCH (In RS-485 communication mode)

- ADDRESS SET SWITCH. (1~255)

- Select LOC100C which is connected with RS-485 line by Keyboards.

• **LOC100C Protocol Change**



PROTOCOL	1	2	3	4	5	6	7	8	INIT	TM
D-MAX (9600 bps)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	
P-P (9600 bps)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	
P-P (4800 bps)	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	
P-P (2400 bps)	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	
P-D (9600 bps)	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	
P-D (4800 bps)	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	
P-D (2400 bps)	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	
S-T (9600 bps)	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	

- ① Ensure 'POWER OFF'
- ② Make on INIT pin of DIP S/W
- ③ Switch Protocol that user wants to change as above the table.
- ④ The protocol is set when making 'POWER ON' then the Red Led is off.
- ⑤ Ensure 'Power OFF' then make off INIT pin of DIP S/W .
- ⑥ The protocol setting is finished when power on then duoCon™ LED changes to Green.
- ⑦ Keep INIT PIN 'OFF' in the status of protocol setting unused.

• **SETTING ADDRESS OF DIP SWITCHES.**

Use DIP switches No.1 to No.8 for address, it can be set 1 program to 255 program..

Ninth DIP S/W makes 'Termination Resistor' ON/OFF. Make only the last camera of DATA LINE 'ON'. Make DIP switches 'ON' which of some in the farthest cameras if the DATA LINE have many connection.

- ADDRESS SETTING

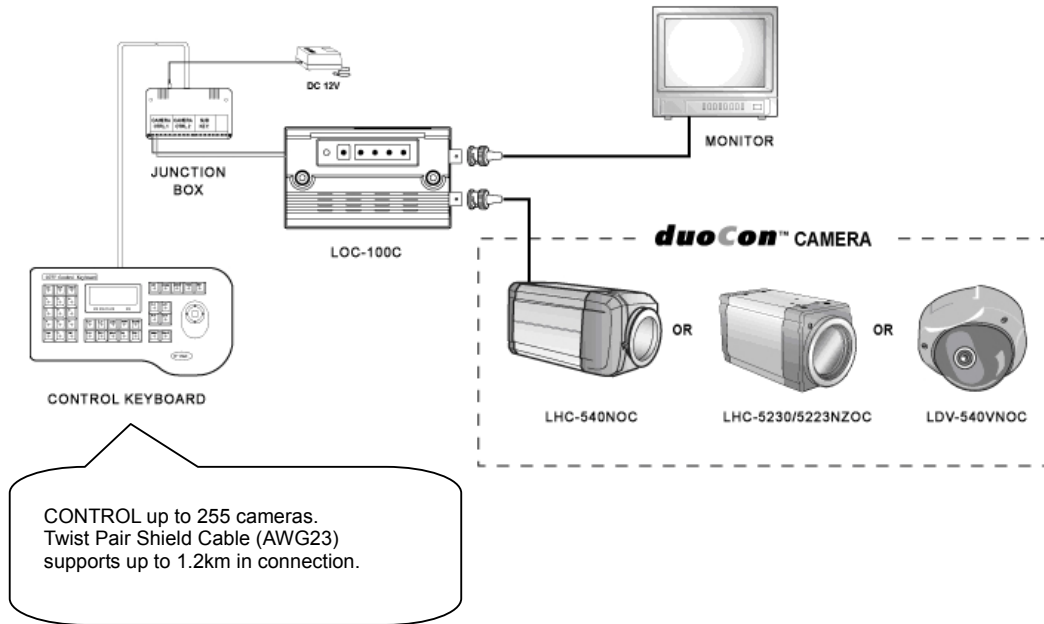
RX NO	DIP SWITCH (HEX)							RX NO	DIP SWITCH (HEX)						
	1	2	3	4	5	6	7		1	2	3	4	5	6	7
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	33	ON	OFF	OFF	OFF	OFF	ON	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	34	OFF	ON	OFF	OFF	OFF	ON	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	35	ON	ON	OFF	OFF	OFF	ON	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	36	OFF	OFF	ON	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	37	ON	OFF	ON	OFF	OFF	ON	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	38	OFF	ON	ON	OFF	OFF	ON	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	39	ON	ON	ON	OFF	OFF	ON	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	40	OFF	OFF	OFF	ON	OFF	ON	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	41	ON	OFF	OFF	ON	OFF	ON	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	42	OFF	ON	OFF	ON	OFF	ON	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	43	ON	ON	OFF	ON	OFF	ON	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	44	OFF	OFF	ON	ON	OFF	ON	OFF
13	ON	OFF	ON	ON	OFF	OFF	OFF	45	ON	OFF	ON	ON	OFF	ON	OFF
14	OFF	ON	ON	ON	OFF	OFF	OFF	46	OFF	ON	ON	ON	OFF	ON	OFF
15	ON	ON	ON	ON	OFF	OFF	OFF	47	ON	ON	ON	ON	OFF	ON	OFF
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	48	OFF	OFF	OFF	OFF	ON	ON	OFF
17	ON	OFF	OFF	OFF	ON	OFF	OFF	49	ON	OFF	OFF	OFF	ON	ON	OFF
18	OFF	ON	OFF	OFF	ON	OFF	OFF	50	OFF	ON	OFF	OFF	ON	ON	OFF
19	ON	ON	OFF	OFF	ON	OFF	OFF	51	ON	ON	OFF	OFF	ON	ON	OFF
20	OFF	OFF	ON	OFF	ON	OFF	OFF	52	OFF	OFF	ON	OFF	ON	ON	OFF
21	ON	OFF	ON	OFF	ON	OFF	OFF	53	ON	OFF	ON	OFF	ON	ON	OFF
22	OFF	ON	ON	OFF	ON	OFF	OFF	54	OFF	ON	ON	OFF	ON	ON	OFF
23	ON	ON	ON	OFF	ON	OFF	OFF	55	ON	ON	ON	OFF	ON	ON	OFF
24	OFF	OFF	OFF	ON	ON	OFF	OFF	56	OFF	OFF	OFF	ON	ON	ON	OFF
25	ON	OFF	OFF	ON	ON	OFF	OFF	57	ON	OFF	OFF	ON	ON	ON	OFF
26	OFF	ON	OFF	ON	ON	OFF	OFF	58	OFF	ON	OFF	ON	ON	ON	OFF
27	ON	ON	OFF	ON	ON	OFF	OFF	59	ON	ON	OFF	ON	ON	ON	OFF
28	OFF	OFF	ON	ON	ON	OFF	OFF	60	OFF	OFF	ON	ON	ON	ON	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	61	ON	OFF	ON	ON	ON	ON	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	62	OFF	ON	ON	ON	ON	ON	OFF
31	ON	ON	ON	ON	ON	OFF	OFF	63	ON	ON	ON	ON	ON	ON	OFF
32	OFF	OFF	OFF	OFF	OFF	ON	OFF	64	OFF	OFF	OFF	OFF	OFF	OFF	ON

-No.1 is changed to No.65 and the last No.64 is changed No.128 when No.7 DIP SW is on.

-No.1 is changed to No.129 when No.7 DIP SW is off and No.8 DIP SW is on.

-No.1 is changed to No.193 and user can set up to maximum 255 ADDRESS when No.7, 8 DIP SW are on

4. Connection



OSD control is available by RS-485 communication from Keyboard.

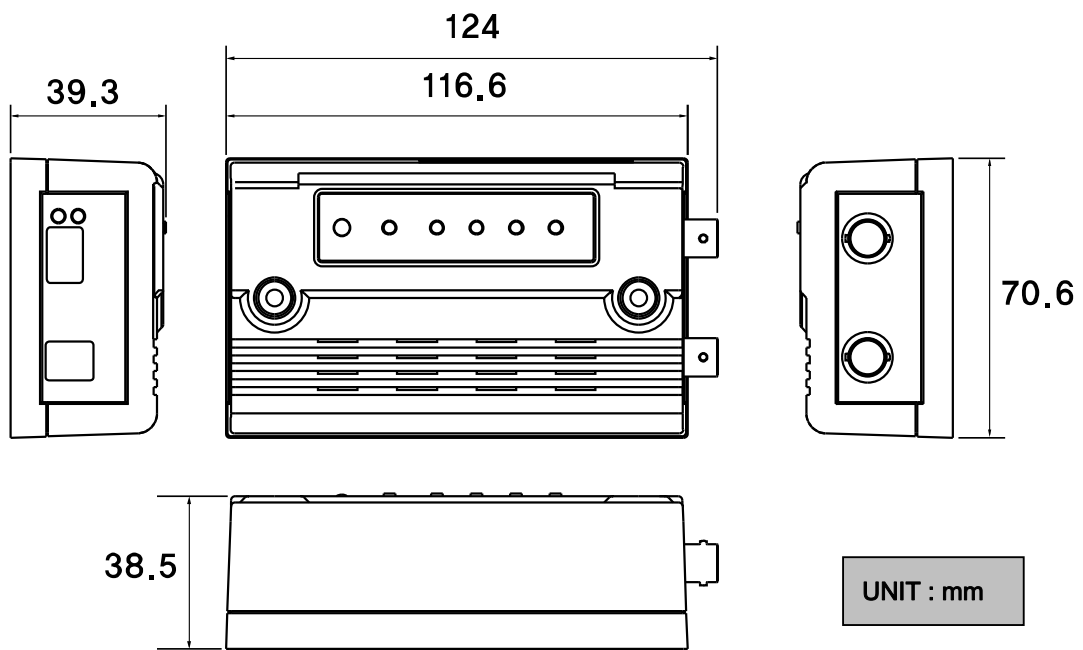
LOC-100C can control 1~255 cameras with one keyboard.

Refer to the manual book in operation by Keyboard.

5. Troubleshooting

Trouble Shooting	Check Point	Measure
It is not turn on the power come.	Does the power has been supplied in normal?	Check the plug and try again.
It is not come on the screen	Is the input and output connector connected in normal?	Please re-connect input and output connector in normal.
	• Check the camera's power	• Make the camera 'POWER ON'
Out of operation in connection of Keyboard.	• The connection of RS-485 (+),(-) Terminal	• Check the connection of RS-485 (+), (-) terminal with LOC-100C and Keyboard.
	• is the ADDRESS correct?	• Set the same address of the camera and LOC-100C
	Is the protocol correct?	Set the same protocol of the keyboard and LOC-100C

6. Dimension



7. Specifications

MODEL	LOC-100C
Signal system	NTSC / PAL
Video input	1ch
Video output	1ch
OSD control	Built-in
Zoom/Focus control	Built-in
Remote control	Video Carrier Communication
S/N ratio	More Than 50dB
Video output	Composite video output 75Ω terminated
Sync. system	Internal
Operating humidity	30 % ~ 90 % RH
Operating temperature	- 10°C to 50°C, 14°F to 120°F
Dimension	70(W)×39(H)×124(D)mm
Weight	About 250g
Power consumption	Max 1.5w
Power supply	DC12V (±10%) 300mA

LUXAR™