Operating Instructions

LVC-C513HM LVC-C513HP

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Before installing and using the camera, please read these instructions thoroughly and retain them for later reference.







This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the prod-uct's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servic-ing) instructions in the literature accompanying the appliance.

This installation should be made by a qualified service person and should conform to all local codes.

Warning

To prevent fire or shock hazard,do not expose the unit to rain or moisture. To avoid electrical shock,do not open the cabinet. Refer servicing to Wiring methods shall be in accordance with the National Electric Code, ANSI/NFPA 70.

Regulatory Notices For U.S.A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency ener-gy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his • A suitable conduit entries, knock-outs or glands shall be provided in the

- cable entries of this product in the end user. Caution:Danger of explosion if battery is incorrectly replaced. Replaced
- only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Holes in metal, through which insulated wires pass, shall have smooth
- well rounded surfaces or shall be provided with brushings.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



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FEATURES

The power zoom color video camera is designed for use in monitoring system.

- High resolution and high sensitivity with a 1/4 inch Exview/HAD/CCD (Charge Coupled Device)
 High magnitude of zoom lens with optical X 27, Digital X 54(MAX)
 Auto Focus / Auto White balance
 Auto exposure with DC Iris control
 Day & Night function
 DSS(Digital Slow Shutter) is available : Optional
 WDR(Wide Dynamic Range) is available : Optional
 Privacy Zones :Optional



Cautions for Safe Operation

Power Supply

This camera must always be operated a 12V DC UL Listed, Class 2 Power Supply only.

Handling of the unit

Be careful not to spill water or other liquids on the unit, or to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fail, or to be a cause of fire or electric shock.

Operating and storage location

Avoid viewing a very bright object (such as light fittings) for an extended period. Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places
- (operating temperature 0°C-45°C)
- Damp or dust place
- Where it is exposed to rain
- Where it is subject to strong vibration



 Close to generators of powerful electromagnetic radiation such as radio or TV transmitters.

Care of the unit

- Remove dust or dirt on the surface of the lens with a blower.
- Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene, and insecticides. They may damage the surface finish and/or impair the operation of the camera.

Operating Controls and Their Functions





- 1. Tripod adapter
- This adapter can also be attached on the bottom of the camera.
- 2. Lens mount cap
- 3. TELE Key
- When push the TELE KEY, picture is telephoto
- 4. WIDE Key
- When push the WIDE KEY, picture is wide angle **5.** Focus Near Key
 - In a manual situation, focus get near.
- 6. Focus Far Key
- In a manual situation, focus get far.
- 7. Menu Key
- If you want to set up a diverse function, you can push this button. 8. Video output (S-Video type)
- Connect to the S-Video in connector of a monitor. 9. Interface of camera control JACK (6 Pin Din Jack Type)
- Connect to an external voltage controller
- You can supply a camera with power from this. (DC12V) **10. Video output(BNC type)**

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Connect to the video in connector of a monitor.

Power In / Control



You can adjust focus and zoom by a pin terminal on the back side of the camera.

	JK301		
1	ZOOM		
2	FOCUS		Γ
3	AD1	A/D KEY 1 input	Γ
4	COMMON	→ Common GND Zoom & Focus	Γ
5	GND	Common GND	Γ
6	12V	12V DC UL Listed, Class 2	Γ
		Power Supply only	

*	Wire Color
1	Green
2	White
3	Brown(Blue)
4	Yellow
5	Black
6	Red

* is the color of the cable. (If it is offered) Adjust voltage from 1 pin and 2 pin

PIN NO.		1	2
RATE	±	6 V	±6V
	+	31	/~13V
	-	-3\	/~−13V

External Key (A/D IN)

Schematic diagram of wired remote-control LVC-C513'S

NO	Function
AD1(1)	Day & Night ON/OFF
AD1(2)	Menu ON/OFF
AD1(3)	Tele or Menu up
AD1(4)	Wide or Menu down
AD1(5)	Nega / Posi
AD1(6)	Focus Nearor Menu change
AD1(7)	Focus Far or Menu change
AD1(8)	Push Auto Mode: Auto Not Push Auto Mode: Scroll between Auto and Manual



MENU DESCRIPTIONS

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Using TELE, WIDE, F. NEAR, F. FAR button

- TELE and WIDE are used for UP and DOWN.
- FOCUS+ and FOCUS- are used for INCREASE and DECREASE the data.



CAMERA ID



1. CAMERA ID

To connect a large number of camera , It can be assigned to identification number to each camera for camera control easily.

(OFF, 0 - 255: total numbers of ID are 256)
It only can be set this function using ID commend. To transfer ID Code of camera , In first byte at PC control. Set the ID number of camera , and then the ID number display continuously.

FOCUS MODE SET

FOCUS MODE PUSH AUTO FOCUS DIST 50CM ZOOM START X1 ZOOM END X54 ZOOM SPEED QUICK	FO	CUS
ZTRK MODE AUTO INITIAL SET ON RETURN 🛛	FOCUS MODE FOCUS DIST ZOOM START ZOOM END ZOOM SPEED ZTRK MODE INITIAL SET RETURN	PUSH AUTO 50CM X1 X54 QUICK AUTO ON J

2. Focus Set:

2-1. Focus Mode Set

- This function is for focus mode setting
- A) Set up "FOCUS SET" in main menu using Tele/Wide key. Select the "FOCUS MODE" in submenu using Tele/Wide key. And then set the mode (Auto, Push auto, or Manual) using Focus key.
- 2-2. Focus Distance Set

This function is for selection of minimum shooting distance.

- A) Select the "FOCUS DIST" in submenu using Tele/Wide key. B) Set the focus distance mode from 1cm to 5M. (1cm, 10cm,
- 50cm, 1M, 3M, 5M) using Focus key.

2-3. ZOOM START Set

This function is for selection of zoom start position.

A) Select the "ZOOM START" in submenu using Tele/Wide key.

B) Set the Zoom start mode from x1 to x26 using Focus key.



FOCUS MODE SET

FOO	cus
FOCUS MODE FOCUS DIST ZOOM START ZOOM END ZOOM SPEED ZTRK MODE INITAL SET RETURN	PUSH AUTO 50CM X1 X54 QUICK AUTO ON J

2-4. ZOOM END Set

This function is for selection of zoom end position. A) Select the "ZOOM END" in submenu using Tele/Wide key. B) Set the Zoom end mode from (Zoom Start + 1) x 54 to X using Focus key.

2-5. ZOOM SPEED Set

 This function is for selection of zoom speed.

 A) Select the "ZOOM SPEED" in submenu using Tele/Wide key.
 B) Set the Zoom speed, Slow, Middle , Quick using Focus key. 2-6. ZOOM TRACKING MODE Set

This function is for selection of zoom tracking mode. A) Select the "ZTRK" in submenu using Tele/Wide Command,

B) Set the Zoom tracking mode to Auto or Manual.

* Zoom tracking means focused zooming state.

2-7. INITIAL SET

If initial mode set to ON, All FOCUS SET function is changed to the factory setting.A) Select the "INITIAL SET" in submenu using Tele/Wide key.

B) Set the initial set mode to ON or OFF using Focus key. 2-8. RETURN TO MAIN MENU

This function is exit to main menu.

A) Select the "RETURN" in submenu using Tele/Wide key.

B) Set the return mode using Focus key.

AWB SET (Auto White Balance)

AW	'B	
WBC MODE RED ADJUST BLUE ADJUST INITIAL SET RETURN	AUTO NOT USE NOT USE ON J	

3. AWB SET 3-1. WB Mode Set

This function is for changing the WB mode.

A) Set up "AWB SET" in main menu using Tele/Wide key.B) Select the "WB MODE" in submenu using Tele/Wide key.

C) Set the mode Auto, Push auto , Manual, Outdoor, Indoor using Focus key.

*WBC MODE: Use for changing White Balance Mode .

 AUTO: WB Range 2500°K ~ 9500°K .
 PUSH AUTO: Set the AWB mode to Push Auto, then WB Mode is auto.

3-2. RED ADJUST Set

This function is available for Manual WB mode. This mode is the adjustment of user option for special color.

A) Select the "RED ADJUST" in submenu using Tele/Wide key.

B) Adjust the level from (0-255 MANUAL) using Focus key.



AWB SET (Auto White Balance)

AW	'B	
WBC MODE RED ADJUST BLUE ADJUST INITIAL SET RETURN	AUTO NOT USE NOT USE ON ปิ	

3-3. BLUE ADJUST Set

This function is available for Manual WB mode. This mode is the adjustment of user option for special color.

A) Select the "BLUE ADJUST" in submenu using Tele/Wide key.
B) Adjust the level from (0-255 MANUAL) using Focus key. **3-4. PUSH AUTO**

In case of PUSH AUTO WB mode.

Adjust the push auto mode ON, WB act automatically. 3-5. INITIAL SET

If initial mode set to ON, All AWB function is changed to the factory setting

A) Select the "INITIAL SET" in submenu using Tele/Wide key.B) Set the initial set mode to ON or OFF using Focus key.

3-6. RETURN TO MAIN MENU

This function is exit to main menu.

- A) Select the "RETURN " in submenu. Using Tele/Wide key.
- B) Set the return mode using Focus key.



AE SET (Auto Exposure)

Δ	F
AE MODE	AUTO
IRIS ADJUST	AUTO
AGC ADJUST	AUTO
BRIGHTNESS	128
BACK LIGHT	AUTO
E SENSITIVE	X10 AUTO
FLICKERLESS	OFF
SHUTTER	AUTO
INITIAL SET	ON
RETURN	1

4. AE SET

4-1. AE Mode Set

This function is for changing to AE mode.

A) Set up "AE SET" in main menu using Tele/Wide key.

B) Select the "AE MODE" in submenu using Tele/Wide key.

C) Set the mode auto, IRIS MAN, SLOW MAN, SHUTTER MAN, Auto using Focus key.

4-2. IRIS ADJUST Set

This function is available for IRIS MAN mode.

A) Select the "IRIS ADJUST" in submenu using Tele/Wide key.B) Adjust the level from 0 to 255 using Focus key.

4-3. AGC ADJUST Set

This function is available for SLOW MAN mode / SHUTTER MAN mode .

A) Select the "IRIS ADJUST" in submenu using Tele/Wide key.

B) Adjust the level from 0 to 7 using Focus key.



AE SET (Auto Exposure)

AE MODE AUTO IRIS ADJUST AUTO AGC ADJUST AUTO BRIGHTNESS 128 BACK LIGHT AUTO E SENSITIVE X10 AUTO FLICKERLESS OFF SHUTTER AUTO INITIAL SET ON BETTURN D	A	E
	AE MODE IRIS ADJUST AGC ADJUST BRIGHTNESS BACK LIGHT E SENSITIVE FLICKERLESS SHUTTER INITIAL SET RETURN	AUTO AUTO AUTO 128 AUTO X10 AUTO OFF AUTO ON 3

Area1		
Area1	Area1	Area1
Area1		

Auto BLC

4-4. BRIGHTNESS ADJUSTMENT Set

This function is available for AUTO mode. A) Select the "BRIGHTNESS" in submenu using Tele/Wide key.

B) Adjust the level from 0 to 255 using Focus key.

4-5. BACKLIGHT Set

- A) Select the "BACKLIGHT" in submenu using Tele/Wide key.
- B) Set the mode OFF, ON, or AUTO, WDR using Focus key.
- * WDR (Wide Dynamic Range): It makes possible to capture both high luminance and low luminance subject.

* Auto BLC (Auto back light compensation)

When a back light condition occurs in area1, area2, area3, or area4. the back light compensation is enable. When the back light condition disappears in that area, BLC is disable automatically. If do not want this mode, set to OFF

4-6. E SENSITIVE

This function is available for SLOW mode / AUTO mode.

- A) Select the "E SENSITIVE" in submenu using Tele/Wide key. B) • Adjust the level from X1 FIX to X20 FIX using Focus key.
 - (SLOW mode)
 - Adjust the level from X2 AUTO to X20 AUTO using Focus key. (AUTO mode)



AE SET (Auto Exposure)

Δ	E
AE MODE	AUTO
IRIS ADJUST	AUTO
AGC ADJUST	AUTO
BRIGHTNESS	128
BACK LIGHT	AUTO
E SENSITIVE	X10 AUTO
FLICKERLESS	OFF
SHUTTER	AUTO
INITIAL SET	ON
RETURN	1

4-7. FLICKERLESS Set

This function is available for AUTO mode.

- A) Select the "FLICKERLESS" in submenu using Tele/Wide key.
- B) Set the mode OFF, ON using Focus key.
- * FLICKERLESS: Use for removing the flicker of picture ON: Remove the flicker
- (In case of PAL System: Shutter Speed 1/120 sec). 4-8. SHUTTER SPEED Set

This function is available for AUTO mode / SHUTTER mode.

- A) Select the "SHUTTER" in submenu using Tele/Wide key.
- B) Set the mode NORMAL, 1/120 1/50000 using Focus key. (LVC-C513HM)
 - Set the mode NORMAL, 1/125 1/50000 using Focus key. (LVC-C513HP)
- 4-9. INITIAL SET
- A) Select the "INITIAL SET" in submenu using Tele/Wide Command.
- B) Set the initial set mode to ON or OFF using Focus key.
- 4-10. RETURN TO MAIN MENU
- This function is exit to main menu.
- A) Select the "RETURN " in submenu using Tele/Wide key.
- B) Set the return mode using Focus key.



AE LEVEL (Auto Exposure)



5-1. BLC LEVEL Set

This function is for change to BLC LEVEL. A) Select the "BLC LEVEL" in submenu using Tele/Wide key.

B) Adjust the level from 0 to 255 using Focus key.

5-2. WDR LEVEL SET

This function is for change to WDR LEVEL.

A) Select the "WDR LEVEL" in submenu using Tele/Wide key.

B) Adjust the level from 0 to 15 using Focus key.

5-3. INITIAL SET

A) Select the "INITIAL SET" in submenu using Tele/Wide Command,

B) Set the initial set mode to ON or OFF using Focus key. **5-4. RETURN TO MAIN MENU**

This function is exit to main menu.

A) Select the "RETURN" in submenu using Tele/Wide key.

B) Set the return mode using Focus key.





6. SPECIAL SET 6-1. User Title Set

This function is for custom title on screen display.

A) Set "SPECIAL SET" in main menu using Tele/Wide key.

B) Select the "USER TITLE" in submenu using Tele/Wide key.

- C) Set the position of title and set data using Tele/Wide, Focus
 - key.

6-2. SHARPNESS ADJUST Set

A) Select the "SHARPNESS" in submenu using Tele/Wide key.

B) Adjust the level from 0 to 255 using Focus key.

6-3. COLOR Set

This mode is for B/W mode.

A) Select the "COLOR" in submenu using Tele/Wide key.

B) Select the mode ON, OFF using Focus key.

6-4. NEGATIVE Set

This mode is to change color and luminance to negative.

- A) Select the "NEGATIVE" in submenu using Tele/Wide key.
- B) Select the mode ON, OFF using Focus key.



SPECIAL SET

6-5. D EFFECT Set

This function is to scroll to mirror relevanced function.

A) Select the "D EFFECT" in submenu using Tele/Wide key.

B) Set the mode, none, mirror, v-flip, rotation using Focus key. **6-6. INITIAL SET**

If initial mode set to ON, All SPECIAL functions are changed to the factory setting

A) Select the "INITIAL SET" in submenu using Tele/Wide key.B) Set the initial set mode to ON or OFF Using Focus key.

6-7. RETURN TO MAIN MENU

- This function is exit to main menu.
- A) Select the "RETURN" in submenu using Tele/Wide key.

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B) Set the return mode Using Focus key.

MOTION DET

моті	ON	
DETECTION LEVEL SET INITIAL SET RETURN	ON 10 ON J	

7. MOTION DETECTION SET 7-1. DETECTION Mode Set

A) Set "MOTION" in main menu using Tele/Wide key.
B) Select the "DETECTION" in submenu using Tele/Wide key.
C) Set the mode ON, OFF using Focus key.
7-2. LEVEL ADJUST Set
This function is available for DETECTION mode.
A) Select the "LEVEL SET" in submenu using Tele/Wide key.
B) Adjust the level from 0 to 21 using Focus key.
7-3. INITIAL SET
If initial mode set to ON, All MOTION functions are changed to the factory setting
A) Select the "INITIAL SET" in submenu using Tele/Wide key.
B) Set the initial set mode to ON or OFF Using Focus key.
7-4. RETURN TO MAIN MENU
This function is exit to main menu.

- A) Select the "RETURN" in submenu using Tele/Wide key.
- B) Set the return mode Using Focus key.



F OSD DISP (Function On Screen Display)

F OS	SD	
FUNCTION MOTION DET CAMERA ID ZOOM MAG USER TITLE INIT TITLE INITIAL SET RETURN	DISP ON DISP ON DISP ON DISP ON DISP ON DISP ON ON	

8. F OSD DISP

8-1. FUNCTION Set

- A) Set "F OSD" in main menu using Tele/Wide key.
- B) Select the mode what you want in submenu using Tele/Wide key.
- C) Set the display mode of OSD ON, OFF using Tele/Wide, FOCUS key.
- *INITIAL SET and RETURN are the same as before procedure.

P MASKING (Privacy Masking)

P MAS	KING
AREA SEL	NONE
MASKING	OFF
P MODE SET	OFF
MOVE PT SEL	NONE
MOVE PT CNT	0
PM SET END	OFF
INI COLOR	I COLOR 1
COLOR	COLOR 1
INITIAL SET	ON
RETURN	1

9. P MASKING 9-1.AREA SEL

- This function is to selecting to privacy masking area.
- A) Set "P MASKING" in main menu using Tele/Wide key.
- B) Select the "AREA SEL" in submenu using Tele/Wide key.C) Select the area from area 1 to area 8 using Focus key.

9-2. Masking

- This function is available for MASKING mode.
- A) Select the "MASKING" in submenu using Tele/Wide key.
- B) Select the mode ON/OFF using Focus key.

9-3. P MODE SET

This function is available to go to the PRIVACY MASKING SETTING mode.

- A) Select the "P MODE SET" in submenu using Tele/Wide key.B) If PM SET END mode goes to ON, this menu automatically
 - goes OFF.

9-4. MOVE PT SET

Select to point which wants to move.

- A) Select the "MOVE PT SET" in submenu using Tele/Wide key.
- B) Select the mode ALL X, ALL Y, LEFT X, LEFT Y, RIGHT X, RIGHT Y using focus key.



P MASKING (Privacy Masking)

P MAS	KING
AREA SEL	NONE
MASKING	OFF
P MODE SET	OFF
MOVE PT SEL	NONE
MOVE PT CNT	0
PM SET END	OFF
INI COLOR	I COLOR 1
COLOR	COLOR 1
INITIAL SET	ON
RETURN	Ĵ

9-5. MOVE PT CNT

This function is available to move selected point in the MOVE PT SEL.

- A) When MOVE PT SEL is selected ALL* : Available to move area.
- B) When MOVE PT SEL is selected LEFT* or RIGHT* : Change the size of the area

9-6. PM SET END

Privacy Masking setting function is available to set OFF. A) Select the "PM SET END" in submenu using Tele/Wide key.

B) If P MODE SET mode goes to ON, P MODE SET automatically goes OFF.

9-7. INI COLÓŘ

This function is to selecting to color of initial masking. A) Select the "INI COLOR" in submenu using Tele/Wide key.

B) Select the mode from color 1 to color 8 using focus key. 9-8. COLOR

After setting, select the masking color.

- A) Select the "COLOR" in submenu using Tele/Wide key.
- B) Select the mode from color 1 to color 8 using focus key.



P MASKING (Privacy Masking)

P MAS	KING
AREA SEL	NONE
MASKING	OFF
P MODE SET	OFF
MOVE PT SEL	NONE
MOVE PT CNT	0
PM SET END	OFF
INI COLOR	I COLOR 1
COLOR	COLOR 1
INITIAL SET	ON
RETURN	Ĵ

9-9. INITIAL SET :

- A) Select the "INITIAL SET" in submenu using Tele/Wide Command,
- B) Set the initial set mode to ON or OFF using Focus key. 9-10. RETURN TO MAIN MENU :
- This function is exit to main menu.
- A) Select the "RETURN " in submenu using Tele/Wide key.
- B) Set the return mode using Focus key.
- * You can not set "P MASKING" mode in the digital zoom position.



On Screen Display

Some of these functions will be displayed every time the camera is operated and then disappeared after 5 seconds.



FUNCTION	OSD Format	Description
1. Focus Mode	Non display	Auto Mode
	1.	Manual / push Auto Mode
2. Back Light	Non display	Back Light OFF
	"BL"display	BLC ON / Auto BLC Mode
3. Shutter Speed	Non display	Normal Shutter (PAL: 1/50)
	"Ff"display	Flickerless Mode
	1/120 * : 1/50,000	10 variable steps.
4. STAND-BY	Indicate the camera stand-by during the camera's power turning ON.	
5. CAMERA ID	According to write the identification number to each camera, Multi-point control is available (PC Control 000~255).	

* Shutter Speed 1/120 - 1/50000: LVC-C513HM

* Shutter Speed 1/125 - 1/50000: LVC-C513HP



On Screen Display

FUNCTION	OSD Format	Description	
6. WBC Mode		White Balance AUTO	
	米	WB Preset for INDOOR (3200°K)	
	米	Wb Preset for OUTDOOR (5100°K)	
	W	Manual WB Adjustment: In manual mode the HUE control is available (0 ~ 255).	
	P W	Push Auto White Balance: Turn this mode ON, the white trace automatically. Turn this mode OFF, preserve the white of final auto tracing action (Manual).	
7. ZOOM Display	DX 54	Digital Zoom mode	
	X 27	Optical Zoom mode	



Specifications

Image device	1/4" EXVIEW HAD CCD	
	NTST, High resolution : 811(H) X 508(V) 410K	
	PAL, High resolution : 795 (H) X 596 (V) 470K	
Horizontal resolution	Approx.480 Line (NTSC, High resolution)	
	470 Line (PAL, High resolution)	
	(at center of screen)	
Lens	X 27 Zoom (F 1.5 (W), F 3.8 (T) f= 3.25 ~ 88.0 mm), Video AF	
Digital Zoom Ratio	X 2 : Basic (OFF at WDR mode)	
Minimum illumination	Normal Mode : 1 Lux (F 1.5, Normal Shutter)	
(1/3 output)	Electronic Shutter Speed Mode :	
	0.01 Lux (X20 Field Accumulate)	
	Night Mode : 0 Lux (Infrared ON)	
S/N	More than 48dB	
Scanning System	2:1 Interlace	
Scanning Frequency(H)	15.734 kHz (NTSC), 15.625 kHz (PAL)	
Scanning Frequency(V)	60Hz (NTSC), 50Hz (PAL)	
Privacy Zones	8 area active programmable zones	

Specifications are subject to change without notice.

Specifications

Focal Length	3.24mm (WIDE), 86mm (TELE)
OSD(On Screen Display)	English
Power requirement	12V DC UL Listed, Class 2 Power Supply Only (Refer to bottom panel)
Video output	Composite Output 75Ω Terminated / Y,C Separated
Power consumption	5.1W (Refer to bottom panel)
operating temperature	0°C - 45°C
Operating Humidity	0% RH - 60% RH
Storage temperature	-20°C - 60°C, 0% RH - 85% RH
Dimensions	57mm(W) X 62.4mm(H) X 98.5mm(D)
Weight	500g

Specifications are subject to change without notice.



P/NO: 3834RS0071N