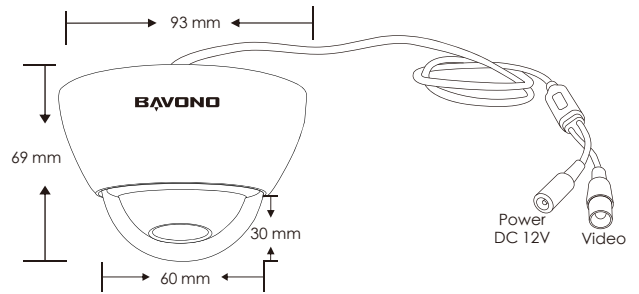


BAVONO BVO304P Ultra Wide Dynamic Range Vandal Proof Mini Dome Camera



Product Wiring Diagram



MENU OPERATION

01

--- MAIN MENU ---
> WDR MODE **STANDARD**
CAMERA SETTINGS..
VIDEO ADJUST..
OPTIONS..
SAVE/RESTORE..
EXIT MENU

- Press the SET button and hold approximately two seconds to access MAIN MENU; use the button to enter a menu or to select a menu option.
- Use the UP and DOWN buttons to move vertically to and between menus and options.
- Use the LEFT and RIGHT buttons to move horizontally to and between menus and options.
- Whenever the PREVIOUS PAGE option appears, select it and press SET to leave the current menu and return to the previous menu.

WDR

02

--- MAIN MENU ---
> WDR MODE **STANDARD**
CAMERA SETTINGS..
VIDEO ADJUST..
OPTIONS..
SAVE/RESTORE..
EXIT MENU

-- WDR USER DEFINED ADJUST --
> WDR BIAS **-36-----0-----36**
WDR LIMIT **0-----20-----36**
EXP. BIAS **-18-----0-----18**
PREVIOUS PAGE.

WDR MODE	STANDARD / HIGH / OFF / USER DEFINED
USER DEFINED --> WDR USER DEFINED ADJUST	
WDR BIAS	-36 ~ 36
WDR LIMIT	0 ~ 36
EXP. BIAS	-18 ~ 18

CAMERA SETTINGS

03

-- CAMERA SETTING --
> VIDEO STANDARD **NTSC**
CAMERA TITLE **ON..**
LENS TYPE **AUTO..**
SYNC MODE **INT**
COLOR BAR **OFF**
PREVIOUS PAGE.

VIDEO STANDARD	NTSC / PAL
CAMERA TITLE	ON / OFF
ON -> CAMERA TITLE SETTING	
TITLE TEXT	18 CHARS MAX
TITLE POSITION	25 ~ 100
LENS TYPE	MANUAL / AUTO
AUTO -> LENS ADJUST	
DC LEVEL	0 ~ 255
AI THRESHOLD	-42 ~ 60
SYNC MODE	INT / LL
LL -> VERTICAL PHASE ADJUST	
V PHASE	0 ~ 624
COLOR BAR	ON / OFF

-- CAMERA TITLE SETTING --
> TITLE TEXT: **SWDR CAMERA**
TITLE POSITION **TOP-LEFT**
PREVIOUS PAGE.

--LENS ADJUST--
> DC LEVEL **0---120---255**
AI THRESHOLD **-42 --18-60**
PREVIOUS PAGE.

--VERTICAL PHASE ADJUST--
> V PHASE **0-----519-----624**
PREVIOUS PAGE.

VIDEO ADJUST

04

-- VIDEO ADJUST --
> GAMMA **AUTO**
SATURATION **< 0 >**
SHARPNESS **< 0 >**
VIDEO LEVEL **< 100 >**
DNR **ON**
COLOR/MONO **OFF**
MIRROR **OFF**
RESOLUTION **520TVL**
PREVIOUS PAGE.

GAMMA	AUTO / MANUAL
MANUAL -> GAMMA MANUAL	
GAMMA	25 ~ 100
SATURATION	-8 ~ 8
SHARPNESS	-8 ~ 8
VIDEO LEVEL	80 ~ 150
DNR	ON / OFF
COLOR / MONO	ON / OFF
MIRROR	AUTO / OFF
RESOLUTION	520TVL / 540TVL

-- GAMMA MANUAL --
> GAMMA **< 45 >**
PREVIOUS PAGE.

OPTIONS

05

--- OPTIONS PAGE ---
> WHITE BALANCE..
AGC **NORMAL**
AE PREFs **SHADOWS**
BLC **OFF**
TRUE DAY/NIGHT **ON..**
DEFECT PIXEL CALIB..
PREVIOUS PAGE.

WHITE BALANCE	
WB MODE	ATW / AWB / MANUAL
MANUAL	KELVIN / R/B
R/B -> RED / BLUE ADJUST	
RED	-20 ~ 20
BLUE	-20 ~ 20
WB BIAS	-2K ~ 2K
AGC	NORMAL / HIGH / LOW / CUSTOM
CUSTOM -> AGC CUSTOM MENU	
SHUTTER LIMIT	OFF ~ 32K
BLC	ON / OFF
ON -> BACKLIGHT COMPENSATION ZONE	
BLC ZONE	USE 'LEFT/RIGHT/UP/DOWN' BUTTONS

-- WHITE BALANCE --
> WB MODE **ATW**
WB BIAS **-2K-----0-----2K**
PREVIOUS PAGE.

-- RED/BLUE ADJUST --
> RED **-18** **-20-----20**
BLUE **13** **-20-----20**
PREVIOUS PAGE.

Specifications

Model	BVO304P	
Video Standard	PAL	NTSC
Image Sensor	1/3" Pixim D1500R, Digital Pixel System®(DPS)	
Effective Pixels	720(H) x 540(V)	
Pixel Size	7um x 7um	
Horizontal Resolution	540TVL	
Dynamic Range	102 dB(typical) - 120 dB(maximum)	
White Balance	ATW / AWB / Manual	
Minimum Illumination	Color: 0.8Lux (F1.2, 50IRE); Slow Shutter: 0.08Lux	
Day / Night	Auto (Auto ICR optional)	
Auto Gain Control (AGC)	Low / Medium / High / Custom	
Digital Noise Reduction (DNR)	Built-in, On or Off selectable	
Gamma Correction	Auto / Manual	
Iris	DC / Video selectable (DC iris level adjustable)	
Configuration	OSD Menu	
Camera Title	Maximum 18 characters	
S/N Ratio	More than 50dB	
Video Output	1.0V p - p Composite Video Output, 75 Ohm	
Power Requirement	DC 12V	
Power Consumption	300mA	
Mounting	C / CS Mount	
Synchronizing System	Internal	
Operating Temperature	- 10° C ~ +50° C	
Shell Material	Vandal Proof Metal	
Shell Color	Black / White	
Dimensions (mm)	93 (Ø) x 69 (H)	
Weight (g)	384	

Note

- Please use the connector of the camera to a DC 12V regulated power supply.
- The tolerance of this unit is DC 12V ± 10 %
- Over the maximum DC 12V power input will damage the video output connector (VIDEO OUT)

	CAUTION RISK OF ELECTRIC SHOCK	
<p>Caution: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture. Only operate this apparatus from the type of power source indicated on the label. The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.</p>		