

# ROCKvision Rear Vision Systems

## 4 Cameras Rear Vision System



### Features

ATP 004 4CAM Rear Vision System which could provides you

1. Up to 4 CCD Cameras, which can be set to "Rear, Front, Left, and Right" for most vehicles
2. Built-in intelligent MCU for multi-function control including
  - (1) Free run.(rotate from rear camera to front camera to left camera to right camera every 6/9/12/15 second which can be set up by user)
  - (2) Normal operation. (Rear camera will be display in MIRROR function on monitor automatically when rear gear be activated; Left camera will be display on monitor automatically when left signal be activated; Right camera will be display on monitor automatically when right signal be activated)
  - (3) Keypad operation. It overrides other functions when keypad is used.
  - (4) All cameras can be set up to fixed mirror function except rear camera.
  - (5) With By-pass function, user can choose from 1 - 4 camera(s) input
3. We have ability to customize the functions by customer needs
4. Wide power range between DC 12V and 24V
5. Offer short circuit protection and auto-resume soon after short circuit status is released
6. All input/output sources can be recorded individually.
7. Up to 2 monitors connection are available (Monitor recording port can be used to 2nd Monitor port)
8. Car entertainment can be connected via CCD camera port. (DVD, VCD...)
9. Auto wake up 5.6" (or 7") LCD Monitor screen when rear gear activated
10. Heavy Duty Waterproof Color CCD Camera (IP66, Anti-shock)

## RA - 70 (TFT - LCD Monitor)



### Features:

- 7" Active screen TFT-LCD & Push Control Buttons
- Wireless remote control
- Normal/Mirror image selectable
- 12 VDC voltage operation
- (2) camera Capacity
- Universal mounting bracket & Hardware
- OSD(on screen display) for color, tint, brightness

### Specifications:

<b>Model No.</b>	<b>RA - 70</b>
<b>Display</b>	<b>7" active matrix TFT-LCD(16:9)</b>
<b>Back Light</b>	<b>Built-in CCFL x 2</b>
<b>Dot Format</b>	<b>1140(H) x 234(V)</b>
<b>Number of Pixels</b>	<b>336,960 dot/112,320 pixels</b>
<b>Dot Pitch</b>	<b>0.108mm(H) x 0.375mm(V)</b>
<b>Brightness</b>	<b>300 cd/m(2) (Nit)</b>
<b>Viewing angles</b>	<b>65/65/40/65 degrees (L/R/T/B)</b>
<b>Pixel configuration</b>	<b>Stripe</b>
<b>Power requirements</b>	<b>12VDC</b>
<b>Video Signal</b>	<b>1Vp-p (positive) 75 ohms</b>
<b>Video System</b>	<b>NTSC/PAL Auto Detection</b>
<b>Operating temperature</b>	<b>0 to + 50 ° C</b>
<b>Dimension</b>	<b>193*142*31mm</b>

## RG - 310WIR (1/3" Waterproof Color CCD Camera)

### Features:

- CCD Compact Heavy Duty Color Camera
- Waterproof Camera (IP66)
- Shock & Vibration Resistant (5G)
- Built In Microphone(Optional)
- Wide Angle Lens
- Built in IR LED night vision function



### Specifications:

<b>Model No</b>	<b>RG - 310WIR</b>
<b>Description</b>	<b>1/3" COLOR WATERPROOF CAMERA</b>
<b>Pick up Element</b>	<b>1/3" CCD Sensor</b>
<b>Number of Pixels</b>	<NTSC> 510(H) x 492(V) <PAL> 512(H) x 582(V)
<b>Back Light Compensation</b>	<b>ON</b>
<b>Auto Electronics Shutter</b>	<b>ON</b>
<b>Auto White Balance</b>	<b>ON</b>
<b>ALC</b>	<b>ON</b>
<b>AGC</b>	<b>ON</b>
<b>Sync. Mode</b>	<b>Internal Sync.</b>
<b>Scanning System</b>	<b>2:1 interlace</b>
<b>Resolution</b>	<b>420TVL</b>
<b>S/N Ratio</b>	<b>More than 48dB</b>
<b>Gamma Characteristic</b>	<b>0.45</b>
<b>Minimum illumination</b>	<b>0Lux</b>
<b>Horizontal Sync. Frequency</b>	<NTSC> 15.734 KHz <PAL> 15.625 KHz
<b>Video Output</b>	<b>60Hz(50Hz)</b>
<b>Power Source</b>	<b>DC 12V</b>
<b>Power Consumption</b>	<b>3.6W</b>
<b>Operating Temperature</b>	<b>-10 °C To +60 °C</b>
<b>Lens Amount</b>	<b>f3.6mm/2.5mm Board Lens</b>
<b>Shutter Control</b>	<NTSC> 1/60-1/100,000 sec. <PAL> 1/50-1/100,000 sec

## RA - 40 (4 Camera Smart Video Control Box)



### Features:

- 4 cameras input, CCD 1 is default for reverse gear operation and display in V2 of rear view TFT monitor
- Auto switch from any camera input to CCD 1 input source in order to check view behind the car ( AUTOMATIC MIRROR VIEW IN MONITOR) while driver set the gear to REVERSE
- Monitor auto power on while Reverse Gear signal detected
- Wide operation power range DC 12-24V
- Rear view override the other 3 operation mode
- Control pad signal override normal operation for temporary viewing operation
- All 4 input sources and output for monitor could be connected to DVR individually
- All 3 input are programmable for front or rear view (expect rear view input port)
- All display time are programmable

### Specifications:

<b>Model No</b>	<b>RA - 40</b>
<b>Video Level of input</b>	<b>1 V p-p (standard)</b>
<b>Power range</b>	<b>DC 12 - 24V</b>
<b>Provide monitor power</b>	<b>700mA/12V</b>
<b>Provide 4 cameras power</b>	<b>250mA*4/12V</b>
<b>Dimension</b>	<b>169mm(L) x 105mm(W) x 41mm(H)</b>



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