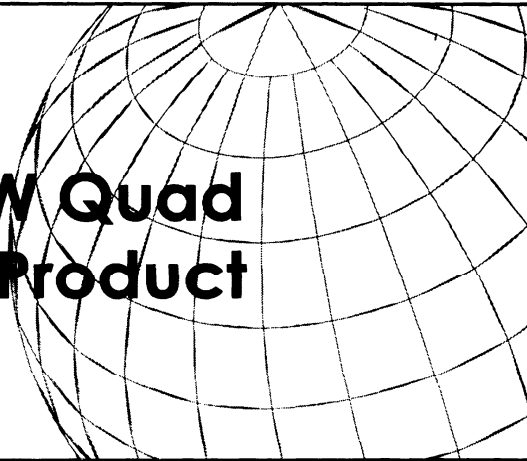


INSTALLATION &
OPERATING MANUAL

**Color & B/W Quad
Unit Series Product**



Before trying to connect or operate this product, please read this manual complete



Ikegami

COLOR & B/W Quad Processor IK-8046 & IK-8142

WARNING

- To prevent fire or shock hazard, do not expose this unit to rain or moisture.
- Do not block ventilation openings.
- Do not place anything on top of the unit which might spill or fall into it.
- All service work should be carried out by qualified personnel as no user serviceable parts are used.
- Do not use liquid cleaners or aerosols. Use a damp cloth for cleaning.
- To prevent fire or electric shock, do not overload wall outlets and extension cord.
- This unit must be grounded to reduce the risk of electric shock hazard.

COMPLIANCE

FCC

This equipment has been tested and found to comply with the limits for a class A computing device pursuant to subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against harmful interference when operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications.

CE

This equipment complies with the essential protection requirements of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

UNPACKING INSTALLATION AND MAINTENANCE

Compare the items received with the packing list with your order. Save the shipping cartons, insert pieces, and user manual for future use. User maintenance of this unit is limited to external clearing and inspection. Do not attempt to service this product yourself. Opening covers may expose you to dangerous voltages or other hazards.

The serial number of this product may be found on the rear cover of the unit. You should write down the serial number in the space provided below and retain this manual as a record for future reference.

MODEL NO. _____

SERIAL NO. _____

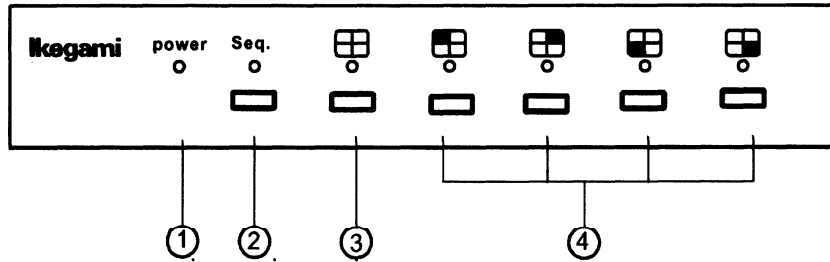
Before trying to connect or operate this product, please read and observe all instructions and warning contained in this manual.

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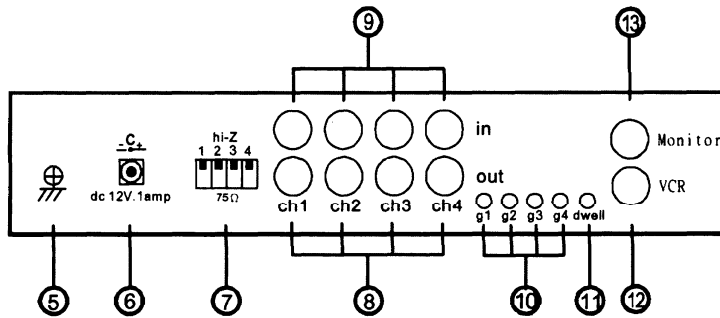
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I. Control Buttons, Indicators, and Connectors

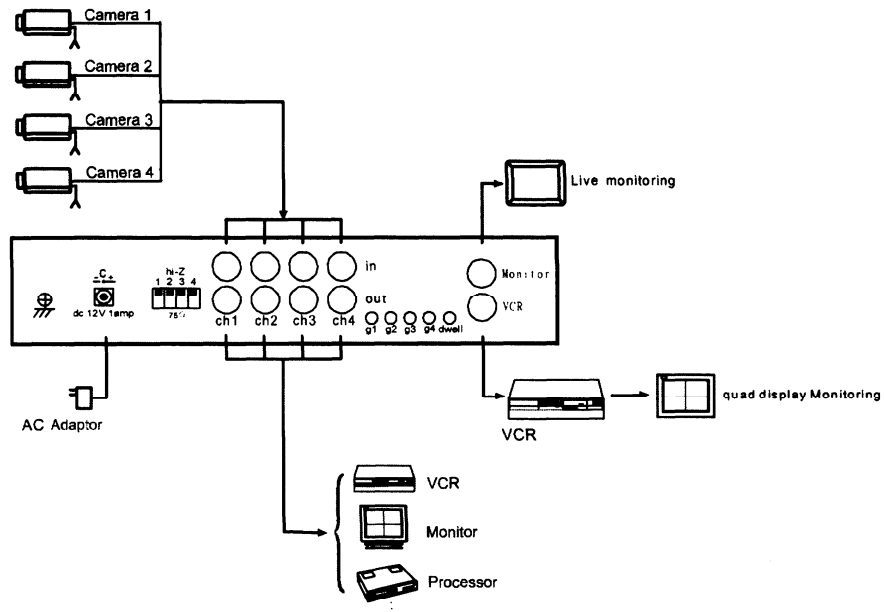
1. Front Panel



2. Rear Panel




3. Basic Connection



4. Button Name, Button Number, & Description

POWER Status LED (#1):

“Seq.” button (#2):

Push this button to get into full screen auto sequencing mode. Push this button and “” quad button (#3) simultaneously to include or exclude the quad display into or from the switching sequence. Push this button again to exit the sequence mode.

QUAD display button (#3):

Push this button to get into Quad display mode.

Channel Select buttons (#4):

These buttons are used to select specific camera to be displayed in full screen mode.

Chassis GND (#5):

This contact is provided to ground the chassis to the Earth ground to prevent interference and electrical shock.

DC 12V power input connector (#6):

Use DC 12 V, 1Amp power adapter only.

Terminations (#7):

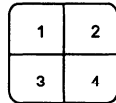
These impedance switches are used to provide proper termination for each camera input. These switches toggle between 75Ω and Hi-Z impedance. Incorrect termination will degrade the quality of the video signal. All video inputs not “looped through” to another device, the corresponding switches need to be set to 75Ω termination position. If another device is connected to video out loop through connector set the corresponding termination switch to Hi-Z position. Any device connected to the video out loop through connectors needs to be configure to 75Ω video termination. The factory default termination setting is 75Ω .

Camera Out connectors (#8):

These BNC connectors are used to loop video signals from each camera out to other devices.

Camera IN connectors (#9):

These BNC connectors are used to connect to the video out from the camera. Four cameras can be connected to these connectors to form a quad screen in the following mapping order:



G1, G2, G3 and G4 (#10): (IK-8142 only)

Video gain control for each corresponding video signal going into the unit. The control range is +/- 2 dB.

Dwell time adjustment (#11):

This VR is used to adjust the switching time of all cameras, when operated under Sequencing mode. The range is from 1 to 30 seconds.

VCR video output (#12):

This BNC connector provides quad screen display only, which is designed for non-interrupted quad screen recording. The video display is not affected by the control buttons.

MONITOR video output (#13):

This BNC connector provides video signal controlled by the front panel control buttons. This connector provides video display of quad screen, full screen, and auto sequencing display.

5. Video Loss Alarm Operation

The unit is equipped with a video loss alarm capability.

If the unit detects the loss of the video signal at any connected camera input:

- 5.1 It first retains and flashes the last video received in quad display mode. The unit also flashes the associated camera LED to alert the operator.
- 5.2 If the video signal is recovered, the unit displays the new video on the screen. Please push the camera button to confirm the loss of video and stop the LED from flashing.
- 5.3 However, if the video signal is not recovered, please push the associated camera button to display the last video before lost. The Camera LED is still in flashing mode to indicate that the displayed video is retained before video loss. Push the camera button again to confirm and stop the LED from flashing. At this time, the associated channel will only shows a blank screen.

II. Product Specifications

Product Specifications		
Model Number	IK-8142	IK-8046
Camera Type	B/W	Color
Video Camera Input	EIA/CCIR X 4	NTSC/PAL X 4
Video Output	Video Out to Monitor X 1, 1Vp-p, 75 Ohms	
	Quad video out to VCR X 1, 1Vp-p, 75 Ohms	
	Video output loop through X 4, 1Vp-p, 75 Ohms	
Alarm Type	Video loss detection	
Camera Dwell Time	1 to 30 Sec adjustable	
Refresh Rate	30 (25) FPS	
Resolution	1024 x 512	
Number of Color	256 grayscales	16.7 million colors
Video Gain Control	yes	automatic
Power Consumption	12 V DC, 5W	12 V DC, 8W
Dimension	215W x 200D x 44.4 H mm (8.5W x 7.9D x 1.75H inches)	
Weight	2.0 Kgs / 4.4 lbs	
Operating Temperature	0 to 50 ° C (32 to 122 ° F)	
Power Adapter	120/230 VAC input, 12 V DC Output, UL, CSA, VDE approved	
*. Specifications are subject to change without notice.		

RMN020200430