

# **HQC30E**

## **Color Quad Processor**

### **Installation Manual**



ISSUE	DATE	REVISIONS
A	February 2005	Initial Release

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## FCC COMPLIANCE STATEMENT

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**INFORMATION TO THE USER:** 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 energy 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 own expense.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe A est conforme à la norme NMB-003 du Canada.

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## EXPLANATION OF GRAPHICAL SYMBOLS

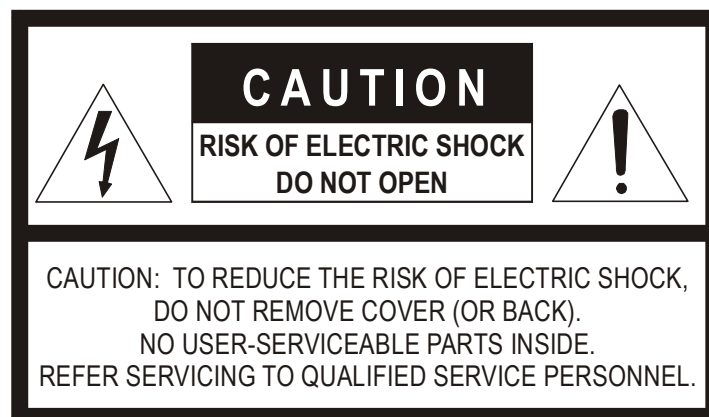
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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.



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# SECTION 1: INTRODUCTION

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## 1.1 PRODUCT DESCRIPTION

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The HQC30E is a Color Quad Processor capable of displaying full-screen or quad views of four camera inputs. With a real time refresh rate, the system provides a high quality picture for both single and quad screen display.

The HQC30E allows sequencing of full-screen or quad images, as well as OSD (on - screen-display) and 3, 6, or 9 second dwell times can be selected using the front panel controls.

## 1.2 MODELS

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- HQC30E: Color, NTSC model
- HQC30EX: Color, PAL model

## 1.3 PACKAGE CONTENTS

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Check that the items received match those listed on the order form and packing slip. The HQC30E Quad Processor packing box should include:

- One Quad Unit (HQC30E)
- One power supply
- Installation manual (this manual)

If any parts are missing or damaged, contact the dealer you purchased the Quad Processor from or call Honeywell Customer Service.



**WARNING:** Prior to installation and use of this product, the following WARNINGS should be observed:

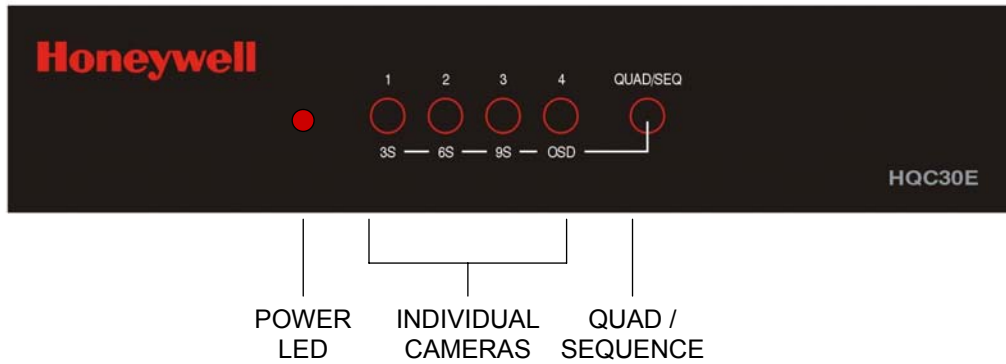
1. This unit should be operated using only the type of power source supplied with the unit.
2. Do not allow anything to rest on the power cord and do not place this unit where persons walk and could damage to power cord.
3. To prevent the risk of fire or electrical shock do not overload wall outlets and extension cords.
4. Do not insert objects into the product.
5. Keep all equipment away from liquid and moisture.
6. Unplug equipment before cleaning. Do not use liquid or aerosol cleaners. Use a soft damp cloth for cleaning.
7. Check upon completion of any service or repair of the unit, ask service personnel for safety check. Do not touch any parts inside for repair. It may expose you to dangerous voltages or other hazards.
8. ONLY use replacement parts recommended by Honeywell Video.
9. If the product will not be used for a long time, please unplug it from the power supply and disconnect it from other equipment. This prevents damage to the unit from lightening or power-line surges.
10. Honeywell Video reserves the right to change details and specifications without prior notice.

## SECTION 2: OPERATION

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### 2.1 HQC30E FRONT PANEL

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### 2.2 OPERATION

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The Quad starts operating when power is applied to the unit. This is the factory default setting. The Quad displays a full-screen view of any camera, a quad view of all cameras or a sequence of the cameras on any standard TV monitor.

To display a full-screen view of any camera on the monitor, press the button for the desired camera.

To view all four cameras on the monitor, press the button labeled QUAD/SEQ.

## **SECTION 3: PROGRAMMING**

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### **3.1 SEQUENCING**

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Press QUAD/SEQ button to change between the Quad and Sequence modes.

The front panel LED will blink indicating the sequence mode.

To change the sequence time (dwell time), simultaneously press the QUAD/SEQ button and the desired time period. For example, to select six-second dwell time, press the QUAD/SEQ button and the 6S button at the same time.

### **3.2 OSD (On-Screen-Display)**

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The OSD function displays the camera number (1, 2, 3, 4) on the display. OSD can be selected by pressing the QUAD/SEQ and 4 (OSD) buttons at the same time.

This sequence can be repeated to turn OSD ON and OFF.

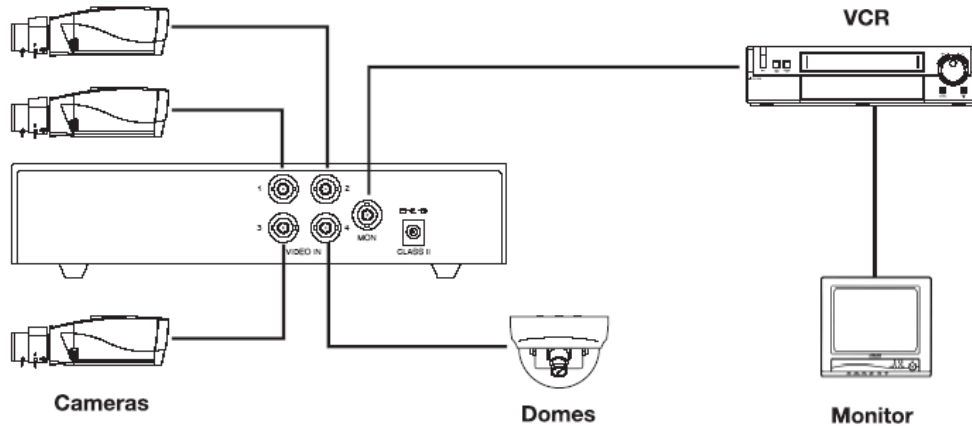


## SECTION 4: INSTALLATION

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### 4.1 INSTALLATION

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### SYSTEM DIAGRAM

1. Connect the cameras and domes to the Video Input BNC connectors and QUAD output to the TV monitor.
2. If video recording is desired, connect a VCR to the quad monitor output and then connect a monitor to the VCR monitor output, as shown in the figure above.
3. Turn on power to all cameras prior to applying power to the HQC30E quad.
4. Connect power to quad. A power supply is included with the quad.
5. The quad starts operating when power is applied.

## SECTION 5: TROUBLESHOOTING

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### 5.1 TROUBLESHOOTING

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Symptom: The monitor screen is dark for a camera input.

- There is no camera connected to that input.
- The camera connected to that input has failed. Check by switching cameras.
- There is a problem with video coaxial cable or the cable connections. Check by switching cables.
- The quad has failed for that input. Check by switching the camera to a different input.

## SECTION 6: SPECIFICATIONS

### 6.1 OPERATIONAL

	Color NTSC	Color PAL
	HQC30E	HQC30EX
<b>Video Standard:</b>	525 lines, 60 fields/sec	625 lines, 50 fields/sec
<b>Digital Memory:</b>	704x480 pixels' 16-bit, 16-million color palate	704x480 pixels' 16-bit, 16-million color palate
<b>Display Rate:</b>	30 frames (60 fields/sec)	25 frames (50 fields/sec)
<b>Dwell Time:</b>	3, 6, 9 secs programmable	
<b>OSD:</b>	ON/OFF programmable	
<b>S/N Ratio:</b>	50dB Min.	
<b>Gain Control:</b>	Range from 0.5Vp-p – 2.0Vp-p	

### 6.2 INPUTS / OUTPUTS

	Color NTSC	Color PAL
	HQC30E	HQC30EX
<b>Video Inputs:</b>	Four, 1Vp-p composite, +/-10%, 75 Ohms, BNC	
<b>Monitor Output:</b>	One, 1Vp-p composite, +/-10%, 75 Ohms, BNC	

### 6.3 MECHANICAL

	Color NTSC	Color PAL
	HQC30E	HQC30EX
<b>Unit Weight:</b>	2.0kgs (4.4lbs) including power supply	
<b>Dimensions:</b>	44mm(H) x 212mm(W) x 158mm(D)	

### 6.4 OPERATING TEMPERATURE RANGE

	Color NTSC	Color PAL
	HQC30E	HQC30EX
<b>Ambient Temp:</b>	-5°C to 50°C (23°F to 122°F)	

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Video Systems

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