

BLU-VUE TRIPLEX
COLOR CAMERA W/ INTERNAL LED LIGHTS
OPERATION AND MAINTENANCE MANUAL



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**BLU-VUE TRIPLEX COLOR CAMERA
W/ INTERNAL LED LIGHTS**

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BLU-VUE TRIPLEX COLOR CAMERA

**BLU-VUE TRIPLEX COLOR CAMERA
W/ INTERNAL LED LIGHTS**

CUSTOMER ASSISTANCE

Lights Camera Action, LLC is available to supply technical support during the installation or operation of our product.

Should you have any questions or problems that are not covered within this manual, please contact us by telephone, facsimile or e-mail.

Telephone: 480 345-0642
 Facsimile: 480 345-0644
 E-Mail: sales@lights-camera-action.net

BLU-VUE TRIPLEX COLOR CAMERA

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INTRODUCTION

This manual describes the Blu-Vue TriPlex color camera with internal LED lights. Should you have questions not covered in this manual please contact us so we may assist you. (See "Customer Assistance" on page 3)

Lights Camera Action, LLC reserves the right to change or modify the designs or specifications of the products covered by this manual as part of our ongoing product improvement program.

BLU-VUE TRIPLEX COLOR CAMERA

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GENERAL DESCRIPTION

The configurations outlined in this manual are our standard configurations.

The standard configuration of the Blu-Vue includes a TriPlex processed MIL-A-8625F Type 3 Class 2 aluminum housing which is certified for operation to a depth of 1,000 ft. The 700 TVL 1/3" Sony Color Ex-View CCD module comes standard with a 3.6mm lens and a B270 crown glass front window.

Options include a Grade 2 Titanium housing, 6mm or 8mm lens, and optically clear acrylic.

Standard connectors are the PMCBH-3 or LPMBH-3 which do not allow for LED light control, or the PMCBH-4 or LPMBH-4 which allow for on/off LED light control.

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SPECIFICATIONS

MECHANICAL

TriPlex processed aluminum housing:

- ◆ Diameter 1.6" (40.64mm)
- ◆ Length with PMCBH 5.5" (139.7mm) straight connector
- ◆ Length with LPMBH 4.75" (139.7mm) right angle connector
- ◆ Weight..... In Air: 0.65 lb (0.295 kg)
- ◆ Optics..... 3.6mm (6mm or 8mm optional)
- ◆ Front Window B270 BBAR Window (optically clear acrylic optional)

Cable:

- ◆ Diameter 0.25" (6.35mm)
- ◆ Jacket 40mil Polyurethane

CCU:

- ◆ Dimensions 5" (127mm) x 3" (76mm) x 1.75" (45mm)

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SPECIFICATIONS CONTINUED

ELECTRICAL

- ◆ Image Device..... 1/3" Color SONY Ex-View CCD
- ◆ Picture Elements..... NTSC: 768 (H) x 494 (V)
- ◆ Sync System Internal Synchronization
- ◆ Horizontal Resolution..... 700 TV lines
- ◆ Video Output..... 1Vp-p 75Ω Composite
- ◆ Signal to Noise Ratio > 50dB (AGC Off)
- ◆ Gamma Characteristics 0.45
- ◆ Gain Control..... 4dB ~ 30 dB Auto
- ◆ Electronic Shutter NTSC: 1/60 ~ 1/100,000sec (Auto)
- ◆ Illumination Sensitivity 0.05 Lux F:1.2
- ◆ Camera Power..... 12VDC @ <300mA

ENVIRONMENTAL

- ◆ Operating Temperature..... 23° to 122° F (-10° to 50° C)
- ◆ Storage Temperature -4° to 140° F (-20° to 60° C)
- ◆ Depth Certification 1,000 ft. (305m)

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OPERATION

The Blu-Vue has been designed for straightforward operation. Three components make up a Blu-Vue system.

- 1) Blu-Vue color camera with either a 3-pin or 4-pin bulkhead connector.



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OPERATION CONTINUED

- 2) Polyurethane jacketed cable which connects to a 3-pin or 4-pin bulkhead connector on the camera and to LEMO bulkhead connector on the control console.



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OPERATION CONTINUED

3) Control console, which is connected by a LEMO connector on the cable, has a video out which can attach to a recording device or a monitor and has a 12VDC barrel plug power connection coming from a 110VAC to 12VDC converter.



CCU-10U (Front)
Power Control



CCU-150 (Front)
Power & Light Control



CCU
(rear plate)

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BLU-VUE CONNECTOR WIRING

The Blu-Vue has been designed for straightforward operation. Three components make up a Blu-Vue system.

- 1) Blue-Vue color camera with either a 3-pin or 4-pin bulkhead connector.
- 2) Polyurethane jacketed cable which connects to a 3-pin or 4-pin bulkhead connector on the camera and a LEMO connector on the control console.
- 3) Control console which is connected by a LEMO 3-pin or 4-pin connector on the cable, has a video out which can attach to a recording device or a monitor and has a 12VDC barrel plug power connection coming from a 110VAC to 12VDC converter.

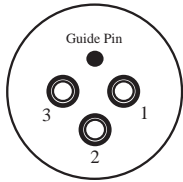
Standard bulkhead connectors are the PMCBH-3 or LPMBH-3 which do not allow for LED light control, or the PMCBH-4 or LPMBH-4 which allow for on/off LED light control.

BLU-VUE TRIPLEX COLOR CAMERA

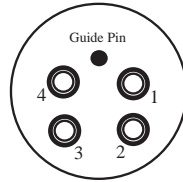
BLU-VUE TRIPLEX COLOR CAMERA W/ INTERNAL LED LIGHTS

MCIL PINOUT CONFIGURATION

Part # PMCIL-3-MP



Part # PMCIL-4-MP



**PMCIL-3-MP
Pin Contact Assignment**

1. Ground
2. Video
3. Power

**PMCIL-4-MP
Pin Contact Assignment**

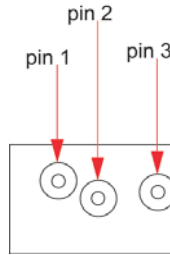
1. Ground
2. Video
3. Camera Power
4. LED Power

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LPMIL PINOUT CONFIGURATION

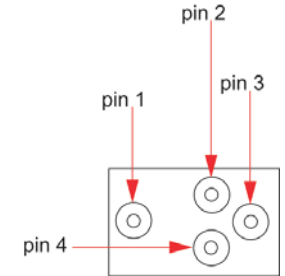
Part # LPMIL-3-MP



**LPMIL-3-MP
Pin Contact Assignment**

1. Power
2. Ground
3. Video

Part # LPMIL-4-MP



**LPMIL-4-MP
Pin Contact Assignment**

1. Camera Power
2. Ground
3. Video
4. LED Power

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MAINTENANCE

Normal maintenance of the Blu-Vue TriPlex is limited to inspection and cleaning.

Front Window:

If the front window is glass, inspect for scratches or defects that might compromise the pressure integrity of the camera. Clean the window using a soft cloth and commercial lens cleaning solution or soap and water. If the front window is acrylic, inspect for scratches that might effect the clarity of the image being viewed.

Camera Housing and Connector:

Make a visual and physical inspection of the camera housing to make sure the rear retaining ring is secure and that the connector has no bent pins and no corrosion. If you have any questions, please contact Lights Camera Action, LLC for assistance.

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LIMITED WARRANTY

Lights Camera Action, LLC warrants this product to be free from defects in material and workmanship for a period of one (1) year from the date of purchase provided such defects are not caused by abuse or misuse.

For warranty issues contact Lights Camera Action LLC to receive an RMA (return merchandise authorization). Shipping to Lights Camera Action, LLC will be paid by the purchaser. Return shipping to the customer will be paid by Lights Camera Action, LLC, if the product is covered under warranty. A Lights Camera Action, LLC technician will evaluate the faulty equipment to determine the cause of the defect. Products found to be defective in material or workmanship will be repaired or replaced free of charge at the discretion of Lights Camera Action, LLC.

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