

# ***HDCM-4K***



## **USER MANUAL**

P/N UM-HDCM-4K

07/2019

## SAFETY AND CLEANING

Thank you for purchasing the Triplett HDCM-4K 7" Professional 4K/HD Compact Monitor. Please read the manual carefully before using the product.

To assure safe use of this product, please read the section on Safety carefully, and observe any Cautions or Warnings posted there and throughout this manual.

Please keep this manual for future reference.

- Comply with all electrical safety rules and regulations when using this device.
- Use original accessories with this equipment to avoid possible damage caused from unapproved accessories.
- Accessories supplied are only intended for use with this product. Use with other products or for other purposes is not recommended.
- Do not expose the product to rain, liquids, direct sunlight, excessive heat, excessive humidity, moisture, excessively bright light, or extreme cold as product damage may occur.
- Do not expose or use the product in dusty or highly particulate environments.
- Avoid dropping the product or subjecting it to physical shock or high vibrations.
- Avoid leaving the battery unattended while recharging it. Charging time should not exceed 8 hours. If the battery becomes excessively hot, disconnect power from the charger immediately.
- Do not use the product in an environment containing flammable gases.
- Do not attempt to disassemble the product. There are no user serviceable parts inside and product damage can occur. Contact Triplett customer service if the unit does not function properly.
- Do not use the product in environments with strong electromagnetic fields.
- Do not handle or operate the product with wet hands.
- Do not use strong detergents or solvents for cleaning the product. Wipe off dirt with a soft dry cloth, or a soft cloth slightly moistened with water or mild cleaner, such as those approved for use on capacitive touchscreens.



**TABLE OF CONTENTS**

**1. Introduction ..... 1**

**2. Hardware..... 1**

    2.1 Power Options..... 2

**3. Using Your HDCM-4K..... 2**

    3.1 The Basics..... 3

    3.2 On-Screen Display..... 3

        3.2.1 Image & Sound Control Menu ..... 4

        3.2.2 Settings Menu..... 5

        3.2.3 Additional Functions Menu..... 6

        3.2.4 F-Buttons Menu..... 6

**4. Troubleshooting ..... 7**

**Warranty and Technical Support..... 7**

**Technical Specifications ..... 8**

## 1. INTRODUCTION

The Triplett HDCM-4K is a versatile 7", professional-grade, portable 4K/HD monitor. The unit features an HDMI input, as well as Composite and Component inputs,. It can be used in many industries, including security camera system installation and troubleshooting; cable & satellite installation and troubleshooting; broadcast and cinematography; live streaming events; and more. This model features two power options — an AC plug, or an externally mounted rechargeable battery. A battery charger is included. It also features a desk-, wall-, or rack-mountable stand.

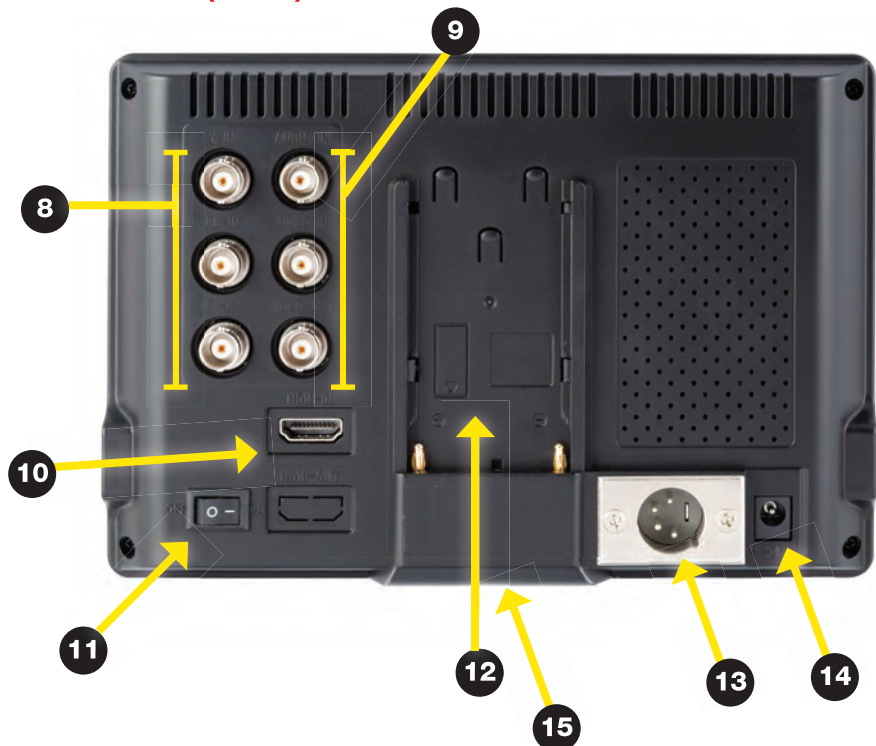
## 2. HARDWARE



|   |                  |                                                                                                                                                                         |
|---|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 |                  | Speaker                                                                                                                                                                 |
| 2 |                  | 3.5 mm Earphone Jack                                                                                                                                                    |
| 3 | MODE             | Use this button to scroll through and select your input: HDMI, YPbPr, or AV                                                                                             |
| 4 | < >              | Increase or Decrease the volume. When the On-Screen Display is showing, use these buttons to adjust the value of the selected parameter.                                |
| 5 | MENU             | Pressing the Menu button will turn the On-Screen Display on and off.                                                                                                    |
| 6 | V/F1, A/F2<br>F3 | When On-Screen Display is on, use these up and down arrow keys to select the menu item. When the On-Screen Display is off, you can use these as Function Keys           |
| 7 |                  | Connection Indicator Light will display GREEN when the unit is connected to an image source (e.g., camera or computer). This will show RED when there is no connection. |



## 2. HARDWARE (CONT.)



|           |               |                                                                                                                                                                          |
|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8</b>  | BNC (left)    | YPbPr inputs                                                                                                                                                             |
| <b>9</b>  | BNC (right)   | Composite Audio Input, Video Input and Output                                                                                                                            |
| <b>10</b> | HDMI          | HDMI Input (HDMI 1.4; up to 4K at 30fps)                                                                                                                                 |
| <b>11</b> | Power         | Power On/Off                                                                                                                                                             |
| <b>12</b> | Battery Mount | Battery mount for rechargeable battery. You can use any Sony type NP-F750/F770 compatible battery. Be sure to hold HDCM-4K firmly when placing and removing the battery. |
| <b>13</b> | XLR           | 4-pin XLR DC Power input                                                                                                                                                 |
| <b>14</b> | DC            | DC Power input                                                                                                                                                           |
| <b>15</b> |               | Mount for 1/4 20 screw (to connect stand or hot shoe) is on the bottom of the unit                                                                                       |



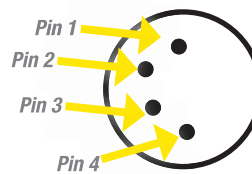
## 2.1 Power Options

The HDCM-4K comes with two options to power the monitor. First there is a 12V 1A AC Adaptor. The second option is to use the included Sony™ type NP-F750/F770 7.4V 4.4Ah 32.6Wh rechargeable Li-ion battery. Run-time is approximately 8 hours on a full charge, depending on the screen brightness setting. We have included a separate Battery Charger with the unit, since the battery cannot be charged while mounted to the HDCM-4K. You may purchase additional Sony NP-F750 rechargeable batteries from any store that sells video cameras. Remove the battery from the HDCM-4K when the unit is not in use. Also make sure you remove the battery from the HDCM-4K when you are transporting it.

**ALWAYS COMPLY WITH LOCAL, STATE, AND FEDERAL  
REGULATIONS REGARDING TRANSPORT AND DISPOSAL OF THE BATTERY!**

The third option for powering the HDCM-4K is to use the 4-Pin XLD interface. The power pinout is:

| Pin Number | Signal |
|------------|--------|
| 1          | Ground |
| 2-3        | NC     |
| 4          | +12V   |



## 3. USING YOUR HDCM-4K

### 3.1 The Basics

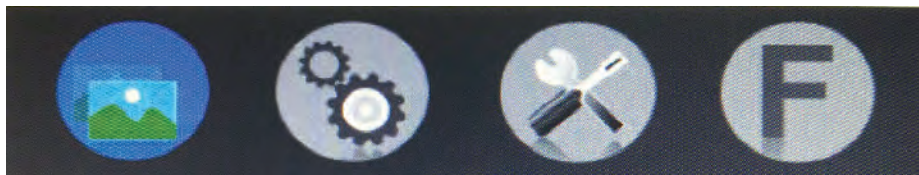
First, connect power to the HDCM-4K, then connect your Video Input to the appropriate connection on the back of the unit using either the BNC or HDMI connection(s). The BNC connections are all clearly marked as to which input is to be used for which type of connection.

Once you have connected the video input, turn the power on by pressing the Power switch on the back of the unit to the "ON" position. You will see a Triplett Logo on the screen as the unit is booting up.

If there is a blank blue screen after boot-up, it means the unit is not set to the correct Input (e.g., you have connected an HDMI cable but the monitor is set to show the AV-BNC). In this case, press the MODE button on the front of the unit repeatedly until the correct input is shown in the upper right corner of the screen. Stop pressing the MODE button to select that input. The screen should show immediately.

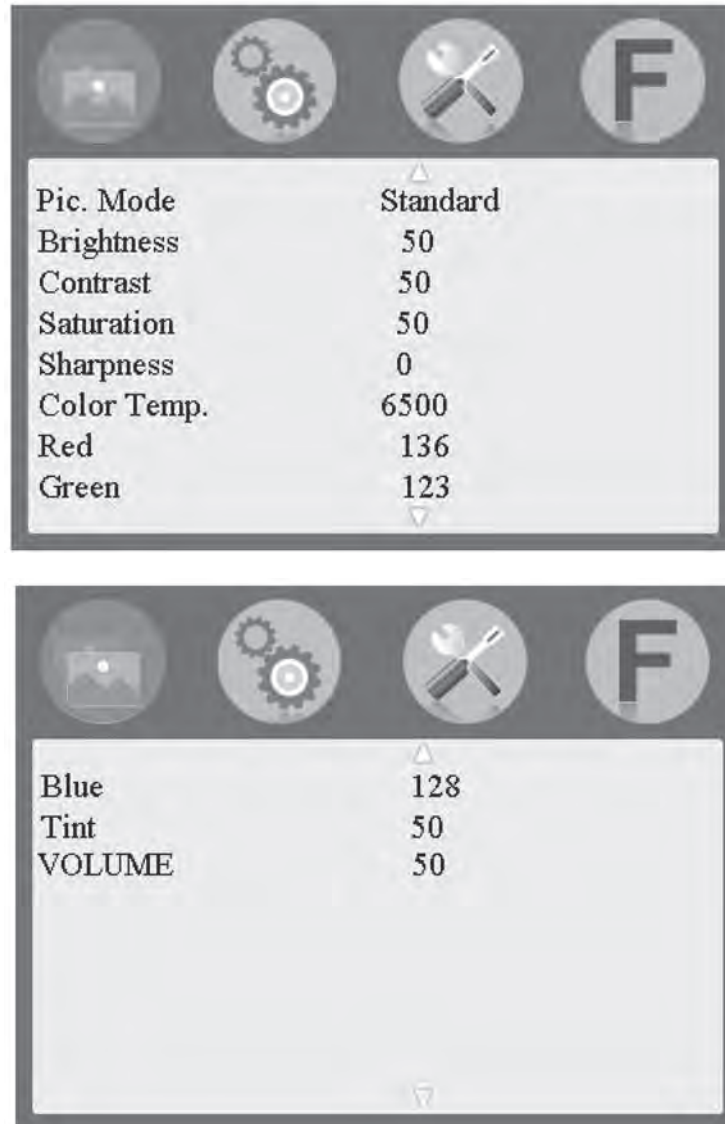
### 3.2 On-Screen Display

Press the MENU button to access the On-Screen Display (OSD) as shown below. The OSD is comprised of four sections. (Left to Right) Image & Sound Control Menu (the landscape); Settings Menu (the gears); Additional Functions Menu (screwdriver and wrench); and the F-Buttons Settings (the capital F). Use the Left and Right Arrow Keys to navigate this top-level menu.



### 3.2.1 Image and Sound Control Menu

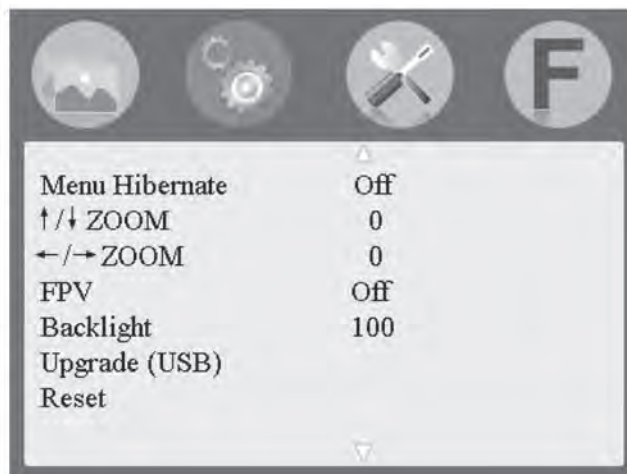
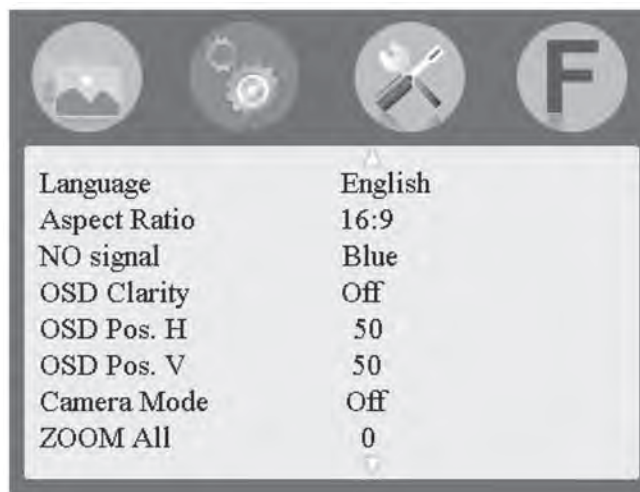
This is a two-part menu (meaning that you have to scroll down using the Down Arrow key to access the second page). Here, you can adjust Picture Mode, Brightness, Contrast, Saturation, Sharpness, Color Temp, RGB, and Tint of the screen.



### 3.2.2 Settings Menu

This is a two-part menu (meaning that you have to scroll down using the Down Arrow key to access the second page). Here, you can adjust the Language (English, Chinese, Japanese, Dutch, German, Spanish, Portuguese, and French), Aspect Ratio, and Blank Screen/No Signal color. You can also adjust the OSD's Automatic Off timer (i.e., Hibernate), clarity, and horizontal/vertical appearance. This is also the area where you can control additional settings if you are using the HDCM-4K with a DSLR or broadcast camera, including switching Camera Mode, and adjusting the Zoom and FPV settings. Finally, this is where you can adjust the backlight and do a factory reset.

**Note:** The USB Upgrade option shown here is a factory-only feature and is not something that you can access without voiding the warranty.





### 3.2.3 Additional Functions Menu

This menu gives you additional features, including enabling or disabling a Center Marker; creating a Safe Frame; freezing the on-screen image; flipping the image (e.g., if you mount the HDCM-4K upside down); making the image black and white; Peer-to-Peer image sharing (i.e., dropping the image quality down to the resolution of the device that has the lowest resolution); and Focus Peaking (used primarily in digital still and video cameras) control.



### 3.2.4 F-Buttons Menu

This menu allows you to create custom shortcuts using the F1, F2, and F3 keys on the front of the HDCM-4K.



## 5. TROUBLESHOOTING

*Picture is only black & white.*

Check saturation, brightness, and contrast settings.

*Blank screen after it is turned on.*

Check the cable. Try a new cable that you know is working.

*Color is distorted or abnormal.*

Confirm the cable is fully seated into the ports at both ends. Confirm the cable is not damaged or crimped. Try using a different cable. If the problem persists, connect the unit to a laptop using a cable that is known to be good and confirm the problem is with the screen. If the unit is still under warranty, contact Triplett Support for service.

*Unit won't turn on.*

First, remove the battery. Then confirm the unit will power on when using provided AC adapter. If the unit will work with the AC adapter, you either need to charge the battery, or it is time to purchase a new battery.

## WARRANTY AND TECHNICAL SUPPORT

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase.

This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries and fuses, are not covered by this warranty.

To register a claim under the provisions of this warranty, please contact the distributor from which you purchased the product from for warranty consideration.

ALL WARRANTIES IMPLIED BY LAW ARE HEREBY LIMITED TO A PERIOD OF ONE YEAR FROM DATE OF PURCHASE, AND THE PROVISIONS OF THE WARRANTY ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES EXPRESSED OR IMPLIED.

The purchaser agrees to assume all liability for any damages and bodily injury which may result from the use or misuse of the product by the purchaser, their employees, or others, and the remedies provided for in this warranty are expressly in lieu of any other liability Triplett may have, including incidental or consequential damages.

Some states (USA ONLY) do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. No representative of Triplett / Byte Brothers or any other person is authorized to extend the liability of Triplett in connection with the sale of its products beyond the terms hereof.

Triplett reserves the right to discontinue models at any time, or change specifications, price or design, without notice and without incurring any obligation.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



## TECHNICAL SPECIFICATIONS

| LCD PANEL                                                                                       |                                                                                                    |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Size                                                                                            | 7-inch TFT LCD with LED Backlight                                                                  |
| Resolution                                                                                      | 800 x 480, up to 1920 x 1080 (H x V)                                                               |
| Aspect Ratio                                                                                    | 16:9                                                                                               |
| Brightness                                                                                      | 450cd/m2                                                                                           |
| Contrast                                                                                        | 500:1                                                                                              |
| Viewing Angle                                                                                   | 70°/70°(L/R), 50°/70°(U/D)                                                                         |
| DISPLAY                                                                                         |                                                                                                    |
| Display Mode                                                                                    | 480i/p, 576i/p, 720p (50/60Hz), 1080i/p (50/60Hz)                                                  |
| Color System                                                                                    | PAL / NTSC                                                                                         |
| I/O FUNCTIONS                                                                                   |                                                                                                    |
| HDMI                                                                                            | 1x HDMI Input (HDMI1.4)                                                                            |
| YPbPr - BNC                                                                                     | YPbPr Input                                                                                        |
| Video - BNC                                                                                     | 1x Video Inputs                                                                                    |
| Audio - BNC                                                                                     | 1x Audio Input                                                                                     |
| Earphone Jack                                                                                   | 1x 3.5mm Earphone Jack at Front Panel                                                              |
| Speakers                                                                                        | 1x Built-in 1W Speaker at Front Panel                                                              |
| XLR DC                                                                                          | 1x Input                                                                                           |
| Function Keys                                                                                   | Left, Right, Menu, Up, Down, Mode, Power                                                           |
| SOFTWARE FUNCTIONS                                                                              |                                                                                                    |
| Canon 5D II Camera Mode, Center Marker, Screen Marker, Aspect Ratio, Color Mode, Under/Overscan |                                                                                                    |
| POWER SUPPLY                                                                                    |                                                                                                    |
| Input Voltage                                                                                   | DC 12V or AC 100~240V<br>NP-F750/F770 7.4V 4400 mAh 32.6Wh rechargeable battery for Sony F750/F770 |
| Consumption                                                                                     | ≤6W                                                                                                |
| MECHANICAL DESIGN                                                                               |                                                                                                    |
| Weight                                                                                          | 1 lb (0.45kg)                                                                                      |
| Dimension                                                                                       | 188mm × 130.7mm × 31mm                                                                             |
| ENVIRONMENTAL SPECS                                                                             |                                                                                                    |
| Temperature                                                                                     | Operating temp: -4°F to 140°F; Storage temp: -22°F to 158°F                                        |

