QUANTUM

Omicron 4 – OM4
Video LED Ring Light

- **Variable Color Temperature**

- **Variable Dimming**

- **Programmable Light Setting**

- **Automatic Lighting Track (ALT)**

1.0 Introduction

Omicron 4 is a lightweight, versatile, high power LED ring light.

Omicron 4 provides continuous high quality video LED lighting. Designed specifically for 35mm DSLR type cameras, Omicron 4 can be easily adapted to other video camera types.

Omicron 4's "chromatically correct" light spectrum emanates from 64 critically color-balanced LEDs. A balanced mix of cool white, warm white and colored LEDs fill in the spectral gaps that are characteristic of white-only LED lights.

The wide range of adjustable color temperature (2500K – 6500K) of Omicron 4 can emulate traditional daylight and tungsten sources.

The light intensity of Omicron 4 can be dimmed from 100% to 0% without altering color temperature.

The Automatic Lighting Track (ALT) will automatically adjust Omicron 4's light intensity as ambient lighting conditions change, or the distance to the subject changes.

The light intensity and color temperature can be stored into 8 Pre-sets and can be quickly recalled when needed.

Omicron 4 can be powered from any standard 12 – 24 volt industrial video battery pack such as a V-mount battery. Quantum offers several choices – see Section 3.2 and 5.0. An AC power supply is included with the Omicron 4.

2.0 Overview

The Quantum Omicron 4 (OM4) Video LED Ring Light for video operation consists of:

OM4 - Variable Color Temperature Ring Light
 OM44 - AC Adapter for operating OM4 using 110V-240V AC power source

2.1 Additional Accessories

OM41 – Power cable to power OM4 by V mount Battery.

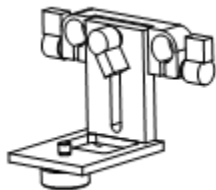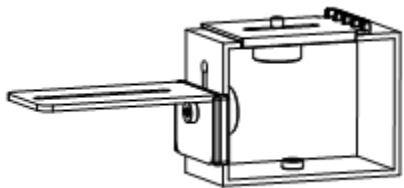OM43 – Power cable to power OM4 by Quantum QB8 or T3 battery pack.

QB8 – Quantum battery pack to power OM4 and DSLR cameras.

3.0 Mounting & Power Accessories

3.1 Mounting

QF29 – for under camera mounting   OM42 – for twin rail mounting

3.2 Power

AC Power – OM44 (provided)

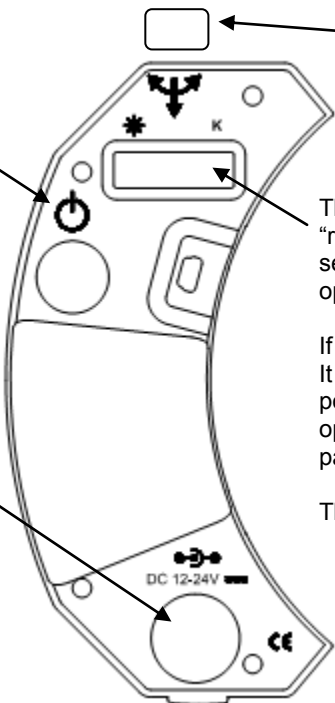DC Power
V Mount Battery – using OM41 power cable

Quantum QB8, T3 – using OM43 power cable

4.0 Operation

4.1 Connections

⏻ Power button

Mode Knob

The digital display shows "rdY" and will blink once per second. The OM4 is ready to operate.

If the digital display blinks "Lb". It indicates the voltage of the power source is too low to operate. Check the battery pack operation.

The battery may need charging

Connect a power source to the Omicron 4. See Section 3.2 for a list of power sources.

4.2 ON / OFF

On
Press and hold the Power ⏻ button until the digital display shows **"ON"**. The OM4 light output will gradually increase to the last intensity setting used. The intensity level (0 – 100) will appear on the display.
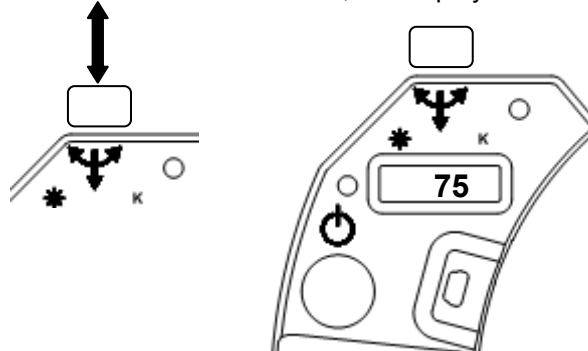
Off
Press and hold the Power ⏻ button until the digital display shows **"OFF".** The OM4 light will gradually dim.
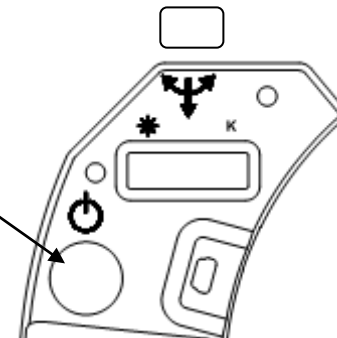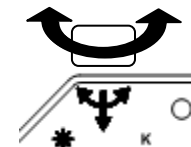

4.3 Adjust Light Intensity (0 – 100%)

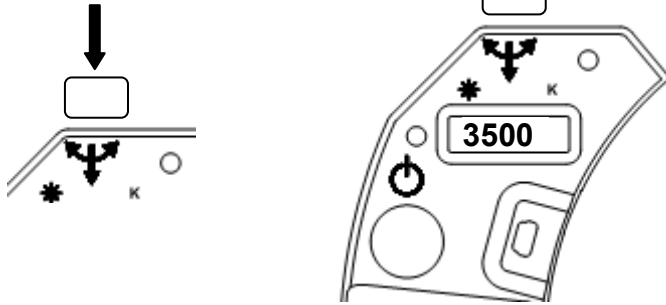Push and release the Mode knob, the display shows the intensity 0 – 100%.

75

Adjust the light intensity

Turn the Mode knob clockwise to increase the light intensity, count-clockwise to decrease the light intensity.
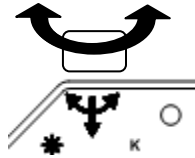
4.4 Adjust Color Temperature (2500 – 6500)

Push and release the Mode knob, the display shows the 4 digit color temperature (2500 – 6500).

`3500`

Adjust the color temperature

Turn the Mode knob clockwise to increase the color temperature (towards cool), count-clockwise to decrease the color temperature (towards warm).

4.5 Automatic Lighting Track (ALT) Operation

Automatic Lighting Track (ALT) Operation will keep constant illumination on the subject when the distance between it and the OM4 LED Ring Light changes. ALT reacts faster than the aperture controlled exposure of most video and HDSLR cameras.

Turn OM4 ON
With the OM4 turned on, place it at the maximum distance you intend to shoot from your subject. Set the intensity knob to 100. Your minimum shooting distance will be one half of your maximum.
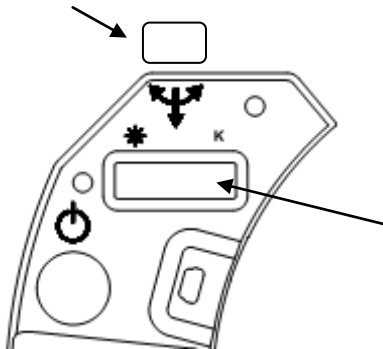
Turn ON ALT
While aiming at your subject, momentarily push the Power ⏻ button one, or more times, until the display shows "Auto".

Turn OFF the ALT
Push the Power ⏻ button once. The display will show the light intensity level.

Indications
If the digital display shows **"HI"**, you are too close to your subject and you need to move away.
If the digital display shows **"Lo"**, you are too far from your subject and you need to move closer.

4.6 Pre-set Mode (P)

In Pre-set mode light intensity and color temperature may be saved for later use. There are 8 Pre-sets, labeled P1, P2, . . . P8, that can be quickly recalled when needed.

To enter Pre-set mode,
Push the Mode knob down until **P-on** appears in the display (approx. 2s)

`P-on`
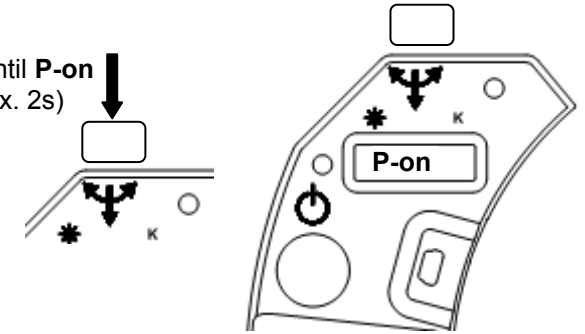
To recall Pre–sets
Rotate the Mode knob to scroll through P1 – P8, then push and release the Mode knob.

`P3`
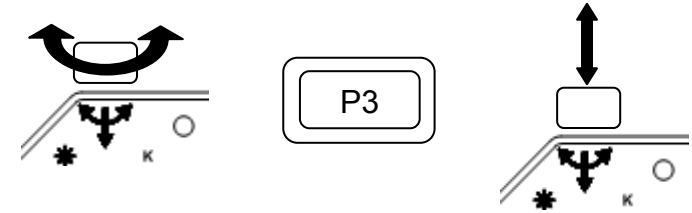
The color temperature for that pre-set will display for 1 second, then the light intensity will be displayed.

Adjusting your Pre-sets
Once you have located a Pre-set P1 – P8, you can adjust and store the color temperature and light intensity.

Push and release the Mode knob to adjust the desire light intensity (see 4.3)
Push and release the Mode knob to adjust color temperature (see 4.4).
Push and release the Mode knob to show current Pre-set number.
        (rotate adjustment to select a different Pre-set number if desired)
.
Press and hold the Mode knob, Pre-set number will blink.
When number stops blinking the settings
have been saved.

`P3`
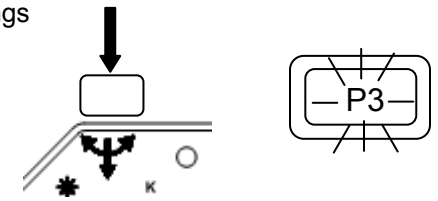
To exit Pre-set Mode:
Push and release Mode knob to show current Pre-set number.
Rotate the Mode knob until the display shows **Poff.**
Push and release the Mode knob to exit.

`Poff`

5.0 Specifications

Light Output: 255fc / 2700lux   1.5ft/ .5m
                 72fc / 750lux   3ft / 1m
                 17fc / 170lux   7ft / 2m

Light output adjustment: 0 – 100%

Color temperature adjustment range: 2500 – 6500K

Illumination Angle: 60 Degree

Ring Size: 9.25in x 1.1in / 235mm x 28mm

Weight: 20oz / 560g

Housing: (widest point) 2 in / 50mm

Maximum Lens Diameter: 3.9 in / 100mm

Power: 30W

Input Voltage: 12 – 24V DC

Power Source:		Full Power Run Time (Approx):
Quantum T3		1 Hr
Quantum QB8		2 Hrs
V-Mount Battery:	90WHr	3 Hrs
	160WHr	5 Hrs
AC Power:		
Quantum OM44 (included)		Unlimited

6.0 Customer Service

Having any trouble using your Quantum product? We are here to help. Mail, call, fax, or email our Service Department:

Service department
Quantum Instruments Inc
10 Commerce Drive
Hauppauge, NY 11788
Tel: (631) 656-7400   Fax: (631) 656-7410
Website: www.qtm.com

Troubleshooting tips are available at www.qtm.com, Support, Customer Support, FAQ. If you suspect a malfunction or require adjustment, return the unit to us with an accurate description of the problem. Please be sure your problem is not caused by improper operating procedure or malfunctions in your other equipment. Send all equipment carefully packaged and insured to our address above.

An estimate of repair cost on out-of-warranty merchandise may be forwarded if you desire.

Normal repair time is 10 – 15 days. Paying by check will delay the repair until the check clears (up to 15 days).   For expedited service, contact our Service Department.

Summary:
*   Ship via UPS, Parcel Post, or other carrier, insured.
*   Give a clear, detailed description of the problem.
*   Give your mailing address and daytime phone number, fax #, and/or email.
*   For warranty repairs include a copy of the receipt.

Note: Please do not e-mail your credit card information.

Limited Warranty

Quantum products have a 1 year limited warranty. Please refer to the Limited Warranty card for complete details, conditions, and terms.

QUANTUM

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